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GAS-METERING HANDBOOK FOR HYDROGEN
BALLOON INFLATION



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INTRODUCTION

The purpose of this handbook is to provide tables which will enable an operator to determine accurately, from simple pressure and temperature readings, the amount of potential lift within various standard hydrogen containers. Directions for the use of the handbook, correction curves for partial cylinders and gas impurities, conversion tables, and other pertinent information have been included.

Hydrogen Cylinders

The usual method of packaging and shipping hydrogen is in seamless steel cylinders. Cylinders are given a hydrostatic test when made, and should be retested periodically. The hydrogen-cylinder valve is equipped with a safety device consisting of a frangible metal plug with a fusible metal core.

There are three types of controls commonly encountered in connection with hydrogen. The first is the needle valve which controls the rate of flow. A typical valve of this class might have a Monel stem and brass body.

The second type of control is a needle valve having a gage between the control point and the cylinder inlet. The gage shows the pressure remaining in the cylinder at any time, and thereby provides a fairly accurate indication of the amount of gas remaining in the cylinder.

The third type of control is the automatic regulator which serves to reduce the pressure and hold it at a desired value. Several kinds of such regulators are available, including the single-stage, two-stage, and high-pressure varieties. All reducing valves of this type have two gages, one of which shows the pressure in the cylinder and the other the outlet pressure.

Description of Tables

Table 1: Conversion factors for utilizing various other standard hydrogen containers.

Table 2: Lift-conversion table for converting pounds force to kilograms force. The table covers a range from 0.1 to 22.5 pounds in 0.1-pound increments.

Table 3. Pressure-conversion table for converting atmospheres gage (atü) to pounds per square inch gage (psig). The table covers the range from 0.5 to 200 atü in 0.5-atü increments. 14.7 psig = 1 atü.

Inflation tables are given following page 16 for the "6 cubic meter" (Type 4000/1) German hydrogen cylinder. These tables cover a pressure range from 0.5 to 200 atmospheres gage in 0.5-atü increments and a temperature range of -40 to +40°C (-40 to +104°F). The centigrade temperature appears at the top of each page, with corresponding Fahrenheit temperature shown at the bottom. The tables are based on 68 per cent relative humidity.

SAFETY MEASURES

Because of the possibility of the formation of explosive mixtures, the precautions for the handling of hydrogen should be studied in some detail. The basic methods of preventing a flammable-gas explosion consist both of avoiding an explosive concentration and eliminating sources of ignition. If an explosion should occur, it is essential that provision be made for minimizing its effects. Furthermore, a knowledge of fire fighting may be of considerable aid to the user of hydrogen.

Preventing an Explosion

Avoiding an Explosive Concentration

Even if small amounts of hydrogen are likely to be present with larger quantities of air, the hydrogen concentration should nevertheless be kept below the lower explosive limit. The best way to make sure of this is to maintain adequate ventilation. If the cylinders are to be stored and used out-of-doors, this factor is of less concern.

If it is decided to empty apparatus containing hydrogen, the equipment should be evacuated or purged with an inert gas until the hydrogen concentration is below the explosive limit. Air should never be used for purging, since the entire range of explosive concentrations of hydrogen and air would be encountered, thereby creating a great hazard. Furthermore, hydrogen should be segregated from oxygen, and the respective storage areas located so that, in the event of even the worst possible fire, there would be no explosion hazard.

Concentrations of hydrogen should not be guessed. Instruments for detecting hydrogen and measuring its concentration are available. These may range from small portable units to large fixed installations which can sample various places continuously. Furthermore, the instruments can be made either to indicate or to record. They can also be set up so as to actuate warning devices or other equipment.

Eliminating Sources of Ignition

The common sources of ignition, and means of guarding against them, are summarized as follows:

- (1) Open Flames. Smoking, welding, and any other activity that produces flames should be prohibited when working with hydrogen. Thus, fittings, piping, and cylinders should never be welded in the field, where hydrogen may be present.
- (2) Electrical. All electrical equipment should conform to current safety provisions. Even if the equipment is itself safe, steps should be taken to make sure that the interior of the equipment is not exposed while the circuit is operating with hydrogen present.
- (3) Metallic Sparks. The use of nonferrous tools will avoid spark formation. It is advisable to test the hydrogen concentration of the area in which work is to be done to make sure that it is safe.

- (4) Static Electricity. Buildup of static electricity should be avoided by grounding equipment and using conductive floors and shoes.
- (5) Lightning. The installation should be protected from lightning if possible.
- (6) Unsecured Cylinders. It is recommended that hydrogen cylinders be either chained to walls or blocked horizontally on a level surface. Valve caps and cylinder bonnets should be affixed, and the cylinders stored as far away from traffic as possible. It should be remembered that, when a cylinder falls, the cylinder valve may break off. This can be fatal, since the cylinder may act as a missile under such conditions.
- (7) Sudden Opening of Valves. If a hydrogen cylinder is not properly secured, sudden opening of the valve can cause a cylinder to be knocked over, with all the attendant dangers resulting. Furthermore, compressed gas may act as a high explosive if suddenly released; also, on rare occasions, the friction of the gas passing through the valve can cause ignition. Immediate closing of the valve will, of course, stop the flame.
- (8) General. Because of the possibility of ignition, the general procedure of opening valves slightly to check for fouling and/or to blow dirt out of the fittings should not be practiced with hydrogen cylinders.

Minimizing the Effects of an Explosion

Although the primary safety consideration is the prevention of an explosion, it is necessary to take steps to minimize injury and damage in the event that a hydrogen explosion does occur. People should be kept as far removed as possible and the number of exposed persons should always be at a minimum. Both equipment and buildings should be designed with these aims in mind.

Equipment

The ordinary hydrogen-cylinder valve is equipped with a standard safety device for use with high-pressure gases. This usually consists of a fuse plug with a bronze disk back of it. The plug is made of fusible metal, usually melting at about 70°C (158°F). The disk breaks at a pressure below the bursting point of the cylinder. Its purpose is to prevent the pressure in the cylinder from pushing out the fuse plug.

Buildings

Buildings in which any hydrogen explosion can occur should have special explosion vents in addition to the usual venting. Explosion vents may be in the form of windows, doors, panels, walls, or even the roof. In venting a blast, steps should be taken to assure that it is restricted to an area where people or other equipment will not be harmed. Venting devices should be periodically checked to insure that they will operate in the proper manner if needed.

Fighting Fires

The best way to fight a hydrogen fire is to stop the flow of gas.

If it is necessary to extinguish the flame in order to get to a place where the hydrogen flow can be shut off, a dry chemical extinguisher is considered best. Dry chemical is no more effective than carbon dioxide in extinguishing ability; this material is recommended because it provides better shielding of the operator, gives longer range, and causes the flame to be visible. However, in the event that a fire is extinguished while the gas is still flowing, an explosive mixture, more dangerous than the fire itself, may form. Consequently, the usual method of fighting hydrogen fires is to let the fire burn itself out, while taking the proper steps to see that it does not spread.

Summary

The safety measures described in this section may be summarized as follows:

- (1) After emptying the apparatus of hydrogen, either evacuate or purge the apparatus with inert gas.
- (2) Remove air from any cylinders to be filled with hydrogen.
- (3) Segregate hydrogen cylinders from oxygen sources.
- (4) Do not guess hydrogen concentrations.
- (5) Keep cylinders away from any open flames. No smoking or welding.
- (6) Keep hydrogen away from electrical circuits.
- (7) Use nonferrous tools to avoid sparks.
- (8) Ground equipment and use conductive floors and shoes to guard against static-electricity buildup.
- (9) Protect installation against lightning.
- (10) Keep cylinders secured and do not jar cylinders.
- (11) Do not open valves suddenly.
- (12) Do not open valves to check for fouling and/or to blow out dirt.
- (13) Do not experiment with unknown or unproved devices at high pressure.

HOW TO USE THIS HANDBOOK

- (1) Determine weight of balloon and other flight equipment.
- (2) Add free lift to determine total lift.
- (3) Measure cylinder temperature.
- (4) Using data from the inflation tables, determine lifts in individual cylinders from known gage pressures. Convert pressure to atü if necessary. If total lift is in pounds, individual cylinder lift can be converted from kilograms to pounds using the lift conversion table.
- (5) If cylinders are not standard (Type 4000/6 or 4000/1), apply necessary cylinder conversion factor.
- (6) If hydrogen contains impurities, use fractional lift charts to obtain actual lift.
- (7) Note number of cylinders required to supply total lift.
- (8) If it is necessary to use only a portion of the hydrogen in the final cylinder, proceed according to the directions in the section, "Partial-Cylinder Correction".

Weight of Flight Equipment and Free Lift

An accurate determination of pressure versus lift is of use only if the gross weight of the flight equipment is known with comparable accuracy. An error in determining this weight can produce results as unsatisfactory as if an error in inflation had been made. Thus, all flight equipment should be weighed on scales which have been periodically checked and are known to be accurate.

The free lift desired for a flight must be added to the gross weight in order to determine the total lift. This is the amount of lift which must be removed from the cylinders and is thus a value obtained by consulting the inflation tables.

Temperature Measurement

It may be assumed that the cylinder surface temperature is sufficiently close to the actual hydrogen temperature to allow direct use of the surface temperature when consulting the inflation tables. An error may be brought about by the fact that equilibrium may not be attained, but, because of practical limitations, it is often most convenient simply to read the temperature of the surface of the cylinder and use this value directly.

In the usual case, one thermometer in contact with the metal surface should be sufficient. The cylinder should be kept out of the sun during the temperature measurement; otherwise, the metal surface temperature, outside air temperature, and hydrogen temperature may differ considerably.

Pressure Measurement

The pressure may be read with an ordinary laboratory test gage, provided with a dial interpretable to 0.5 atü. It is advisable that gages be recalibrated every 6 months, or after any shock. The dead-weight testing method is preferred. Gage dials should be tapped lightly before each reading to assure the most accurate reading.

The following general precautionary measures should be taken:

- (1) Always leave a 0.5 atü (7 psig) final pressure in the cylinders to insure purity of the residual gas. The inflation tables are based on the assumption that this will be done.
- (2) Replace any valves which leak after tightening by hand.
- (3) Tap gage dials lightly before each reading.

Cylinder Conversion Factors

The inflation tables are based on the use of a "6 cubic meter" hydrogen bottle. If a container of different size is to be used, the lift at any particular temperature and pressure can be obtained by dividing the tabulated lift by a conversion factor which depends on the internal volume of this container. The conversion is shown below:

$$\text{Actual Lift From Cylinder} = \frac{\text{Lift Determined From Tables}}{\text{Conversion Factor}}$$

The conversion factors for various other cylinders are given in Table 1.

Correction for Gas Impurities

When hydrogen contains impurities other than the 1.5 per cent nitrogen on which the inflation tables are based, a lift correction, necessitated by the presence of heavier gases, can be made by the use of the fractional lift charts. Charts are given for nitrogen, oxygen, carbon dioxide, and ammonia (Figures 1, 2, 3, and 4). To use the charts, it is necessary to know only the cylinder pressure and the per cent of the impurity. Corrections can be made for the presence of a single impurity only. The actual lift is obtained by multiplying the lift determined from the inflation tables by the fractional lift determined from the fractional lift chart, as follows:

$$\text{Actual Lift} = \text{Lift Determined From Tables} \times \text{Fractional Lift.}$$

Partial-Cylinder Correction

If the required total lift cannot be obtained by completely using a given number of whole cylinders, one cylinder may be only partially used. The initial lift in the cylinder may be determined, using the inflation tables, from

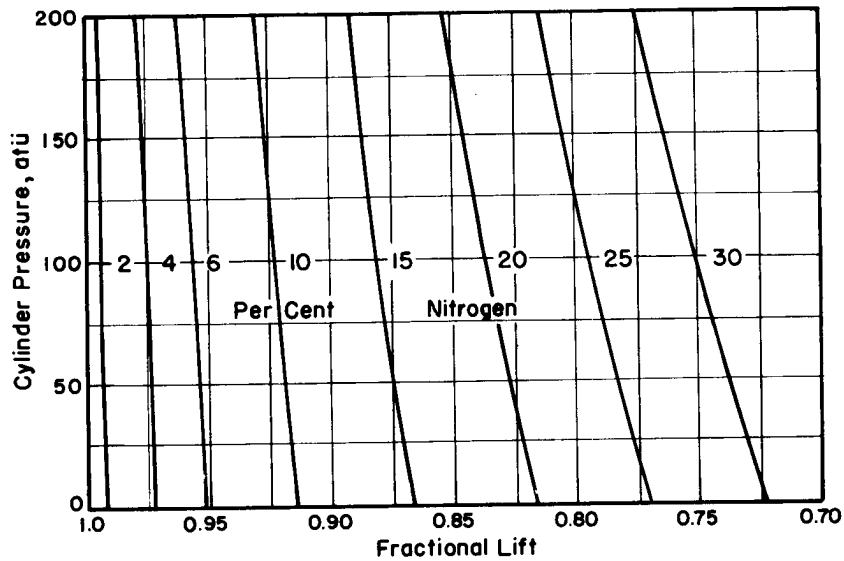


FIGURE 1. GAS-IMPURITY CORRECTION CHART FOR NITROGEN

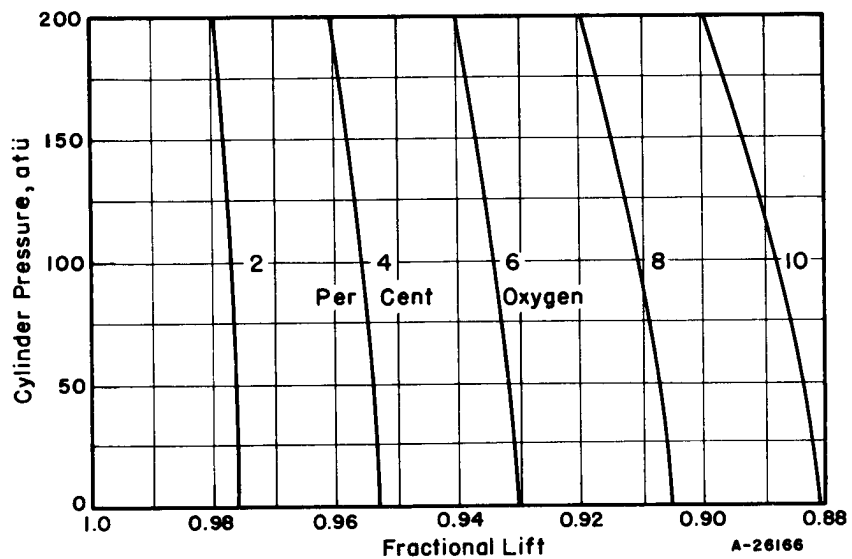


FIGURE 2. GAS-IMPURITY CORRECTION CHART FOR OXYGEN

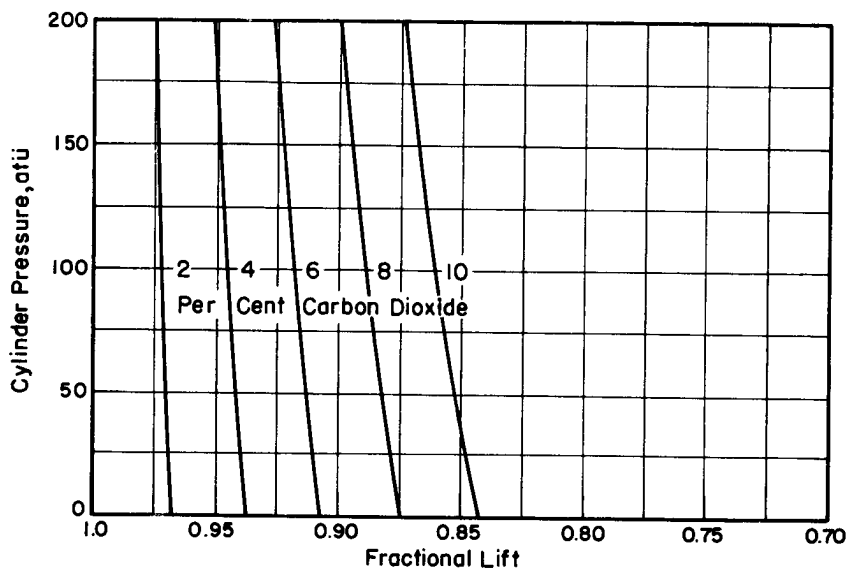


FIGURE 3. GAS-IMPURITY CORRECTION CHART FOR CARBON DIOXIDE

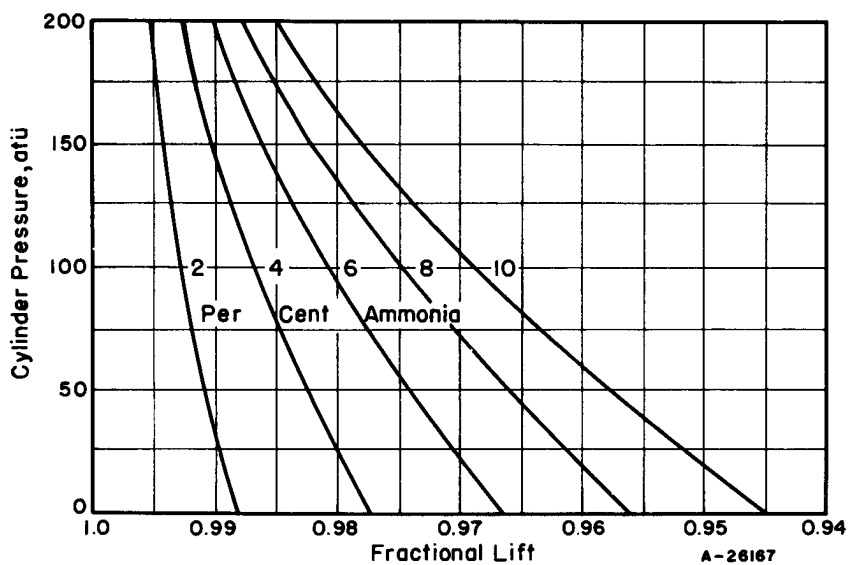


FIGURE 4. GAS-IMPURITY CORRECTION CHART FOR AMMONIA

the initial pressure and temperature. By subtracting the required lift to be taken from the cylinder, the lift which should be left remaining in the cylinder can be determined. Using this remaining lift value then and knowing the cylinder temperature, the final cylinder pressure corresponding to this lift-temperature combination can be found from the inflation tables. Using the known temperature, the final equilibrium pressure can be found from the inflation tables. However, because of the reduction of pressure in the cylinder, the gas remaining in the cylinder has been cooled. Hence, the pressure reading obtained immediately after using the cylinder is not an equilibrium value, and a regain of pressure will be experienced. It is necessary, therefore, to drain the cylinder to some value below this final pressure, so that the pressure finally attained is the equilibrium value determined from the tables.

The curves for Pressure Computation for Partial Cylinders (Figure 5) indicate how much excess drain (in atü) is necessary to achieve a desired equilibrium pressure, if the initial pressure is known.

As an example, assume that the initial pressure in a cylinder is 110 atü and that, in order to get the required lift from the cylinder, the final equilibrium pressure is found to be 80 atü. As shown by the dotted lines in Figure 5, these coordinates correspond to a required excess drain of 4 atü. In this case, it is necessary to bleed the cylinder to a pressure of 76 atü in order to attain the desired final pressure, and thus yield the desired lift.

SAMPLE PROBLEMS

Example No. 1

The weight of the flight equipment and balloon is found to be 95.3 kg. The cylinders available are German Type 4000/1 containing 98.5 per cent hydrogen at 150 atü. The cylinder temperature is 6°C.

- (1) For the purposes of this example only, assume that the free lift is 7 per cent of the weight of the flight equipment and balloon. The free lift then is: $0.07 \times 95.3 = 6.67$ kg.
- (2) The gross lift then is the sum of the gross load and free lift, or: $\text{gross lift} = 95.3 + 6.67 = 101.97$ kg.
- (3) From the inflation tables, at 6°C and 150 atü each cylinder contains 6.16 kg lift. The number of cylinders required is: $101.97/6.16 = 16$ whole cylinders + 3.41 kg lift.
- (4) If an initially full cylinder is used to obtain the additional 3.41 kg lift, the lift remaining in the cylinder after use should be: $6.16 - 3.41 = 2.75$ kg.
- (5) From the inflation tables, the cylinder would have the required remaining lift of 2.75 kg (6°C) at a final pressure of 63 atü.

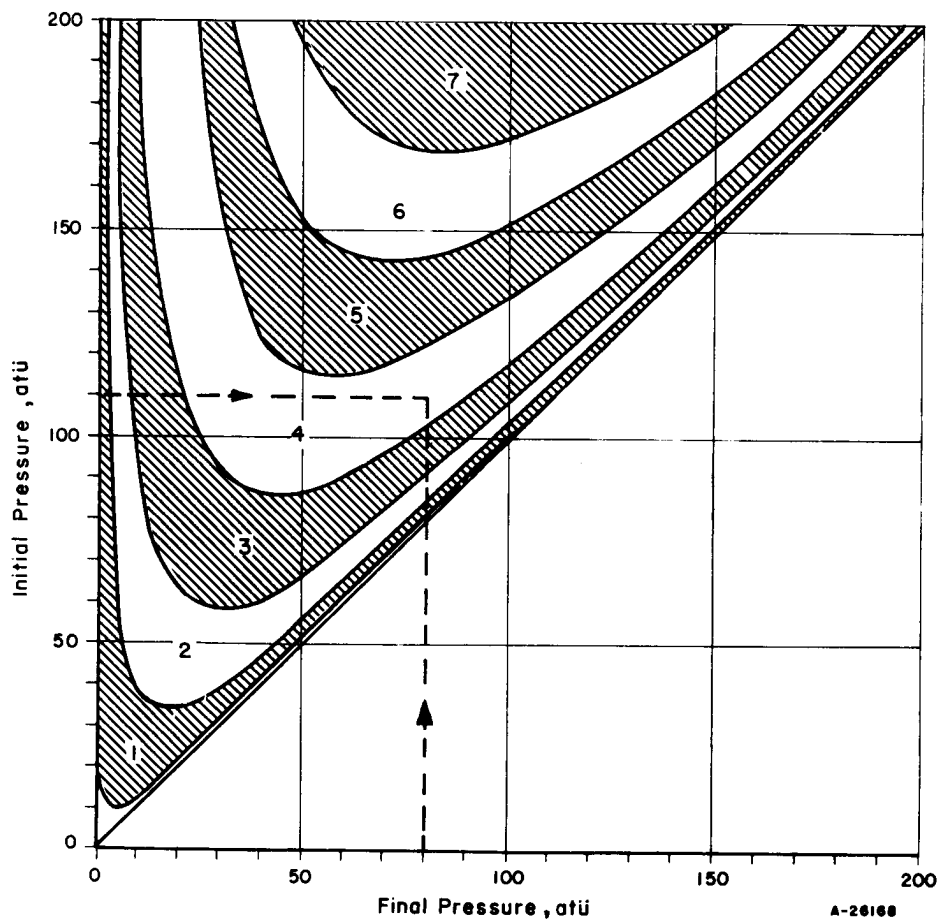


FIGURE 5. PRESSURE COMPUTATION FOR PARTIAL CYLINDERS OF HYDROGEN

- (6) From the partial-cylinder correction chart, at a final pressure of 63 atü and an initial pressure of 150 atü, the pressure correction is found to be 6 atü.
- (7) Therefore, to obtain the additional 3.41 kg lift required, a full cylinder should be drained to: $63 - 6 = 57$ atü.
- (8) Thus, for the purpose of this example, use 16 full Type 4000/l cylinders + one full cylinder drained to a pressure of 57 atü.

Example No. 2

The weight of the flight equipment and balloon is found to be 239.0 lb. The cylinders available are the United States 191-cu ft (Linde Standard) type containing 97.0 per cent hydrogen and 3.0 per cent oxygen at 2020 psig. The cylinder temperature is 55.4°F.

- (1) For the purpose of this example only, assume that the free lift is 7 per cent of the weight of the flight equipment and balloon. The free lift then is: $0.07 \times 239.0 = 16.73$ lb.
- (2) The gross lift then is the sum of the gross load and free lift, or: $\text{gross lift} = 239.0 + 16.73 = 255.73$ lb.
- (3) Using the pressure conversion table, 2020 psig is found to be equivalent to 137.5 atü.
- (4) From the inflation tables, at 55.4°F and 137.5 atü, each cylinder would contain 5.55 kg lift if the standard Type 4000/l cylinder, with 98.5 per cent hydrogen and 1.5 per cent nitrogen, were used. The lift figure of 5.55 kg must be corrected for both cylinder size and gas purity.
- (5) From the cylinder conversion table, the conversion factor for the 191-cu ft cylinder is found to be 0.949.
- (6) From the fractional lift chart for oxygen, the fractional lift for 3.0 per cent oxygen at 137.5 atü is found to be 0.970.
- (7) Applying these two corrections, the actual lift in each cylinder is found to be: $\frac{5.55}{0.949} = 5.85$ kg (lift corrected for cylinder size), and $5.85 \times 0.970 = 5.67$ kg (lift corrected for cylinder size and impurities). Doing the calculation in one step: $5.55 \times \frac{0.970}{0.949} = 5.67$ kg.
- (8) Using the lift conversion table, 5.67 kg is found to be equivalent to 12.5 lb.
- (9) Therefore, the total number of cylinders required is:
 $\frac{255.73}{12.5} = 20$ cylinders + 5.70-lb lift.

- (10) The 5.70-lb lift (which corresponds to 2.58-kg lift) must be obtained by partially draining a cylinder. Since the 2.58 kg is actual lift, it must be converted back to table lift.
- (11) To convert 2.58-kg actual lift to table lift, the corrections for gas purity and cylinder size must be applied, the formula being:
$$\text{Actual Lift} \times \frac{\text{Cylinder Correction}}{\text{Gas-Purity Correction}} =$$

 Table Lift. $2.58 \times \frac{0.949}{0.970} = 2.52\text{-kg table lift.}$
- (12) This 2.52-kg table lift must be removed from a cylinder. Since each cylinder contains 5.55-kg table lift, the lift remaining, after partial draining of the cylinder, should be $5.55 - 2.52 = 3.03$ kg.
- (13) From the inflation tables (by interpolation) the cylinder would have the required remaining lift of 3.03 kg (55.4°F) at a final pressure of 71.8 atü.
- (14) Since this is a partial cylinder, use the partial-cylinder correction chart to determine what pressure the cylinder should actually be drained to. At 137.5 atü initial pressure and 71.8 atü final pressure, the correction is 5 atü. Thus, the cylinder should be drained to $71.8 - 5 = 66.8$ atü.
- (15) From the pressure conversion table (by interpolation), 66.8 atü is found to be 982.4 psig, or approximately 980 psig.
- (16) Thus, for the purpose of this example, use 20 full 191-cu ft cylinders + one full cylinder drained to 980 psig.

TABLE 1. CONVERSION FACTORS FOR STANDARD HYDROGEN CYLINDERS

Type	Nominal Internal Volume	Working Pressure	Nominal Capacity at Working Pressure	Conversion Factor
<u>German Cylinders</u>				
	<u>Liters</u>	<u>Atü</u>	<u>Cubic Meters</u>	
0500/1	5	150	0.75	8.000
0500/6	5	200	1	8.000
0700/6	7	200	1.4	5.714
1000/1	10	150	1.5	4.000
1000/6	10	200	2	4.000
2000/1	20	150	3	2.000
2000/6	20	200	4	2.000
2700/1	27	150	4.05	1.481
2700/6	27	200	5.4	1.481
4000/1	40	150	6	1.000
4000/6	40	200	8	1.000
5000/6	50	200	10	0.800
<u>United States Cylinders</u>				
	<u>Cubic Feet</u>	<u>Psig</u>	<u>Cubic Feet</u>	
Ohio E	—	1800	19	8.51
Matheson 3	—	1600	25	7.57
Ohio F	—	1800	62	2.63
Matheson 2	—	1600	62	2.52
Ohio M	—	1800	90	1.82
Matheson 1A	—	1600	200	0.949
Linde Standard	—	2000	191	0.949
Ohio H	—	1800	176	0.929
National Cylinder Gas	—	2000	205	0.875
Semitrailer	8.7096	2500	—	0.1622

Note: The inflation table is based upon the Type 4000/(1 or 6) cylinders which have a nominal internal volume of 40,000 cubic centimeters. The formula to convert for other cylinder sizes is:

$$\text{Lift in Cylinder of Interest} = \frac{\text{Lift as Computed From Table}}{\text{Conversion Factor}}$$

TABLE 2. LIFT CONVERSION

For values not given in table:
 To convert from lb to kg, multiply by 0.454
 To convert from kg to lb, multiply by 2.205

0.1	0.05	2.6	1.18	5.1	2.32	7.6	3.45	10.1	4.59	12.6	5.72	15.1	6.85	17.6	7.99	20.1	9.12
0.2	0.09	2.7	1.22	5.2	2.36	7.7	3.49	10.2	4.63	12.7	5.76	15.2	6.89	17.7	8.03	20.2	9.16
0.3	0.14	2.8	1.27	5.3	2.41	7.8	3.54	10.3	4.68	12.8	5.81	15.3	6.94	17.8	8.08	20.3	9.21
0.4	0.18	2.9	1.31	5.4	2.46	7.9	3.58	10.4	4.72	12.9	5.85	15.4	6.98	17.9	8.12	20.4	9.25
0.5	0.23	3.0	1.36	5.5	2.49	8.0	3.63	10.5	4.76	13.0	5.90	15.5	7.03	18.0	8.16	20.5	9.30
0.6	0.27	3.1	1.41	5.6	2.54	8.1	3.68	10.6	4.81	13.1	5.95	15.6	7.08	18.1	8.21	20.6	9.35
0.7	0.32	3.2	1.45	5.7	2.58	8.2	3.72	10.7	4.85	13.2	5.99	15.7	7.12	18.2	8.25	20.7	9.39
0.8	0.36	3.3	1.50	5.8	2.63	8.3	3.77	10.8	4.90	13.3	6.04	15.8	7.17	18.3	8.30	20.8	9.44
0.9	0.41	3.4	1.54	5.9	2.68	8.4	3.81	10.9	4.94	13.4	6.08	15.9	7.21	18.4	8.34	20.9	9.48
1.0	0.45	3.5	1.59	6.0	2.72	8.5	3.86	11.0	4.99	13.5	6.12	16.0	7.26	18.5	8.39	21.0	9.53
1.1	0.50	3.6	1.64	6.1	2.77	8.6	3.91	11.1	5.04	13.6	6.17	16.1	7.31	18.6	8.44	21.1	9.58
1.2	0.54	3.7	1.69	6.2	2.81	8.7	3.95	11.2	5.09	13.7	6.21	16.2	7.35	18.7	8.48	21.2	9.62
1.3	0.59	3.8	1.73	6.3	2.86	8.8	4.00	11.3	5.14	13.8	6.26	16.3	7.40	18.8	8.53	21.3	9.67
1.4	0.64	3.9	1.77	6.4	2.90	8.9	4.04	11.4	5.18	13.9	6.30	16.4	7.44	18.9	8.57	21.4	9.71
1.5	0.68	4.0	1.81	6.5	2.95	9.0	4.08	11.5	5.22	14.0	6.35	16.5	7.48	19.0	8.62	21.5	9.75
1.6	0.73	4.1	1.86	6.6	3.00	9.1	4.13	11.6	5.27	14.1	6.40	16.6	7.53	19.1	8.67	21.6	9.80
1.7	0.77	4.2	1.90	6.7	3.04	9.2	4.17	11.7	5.32	14.2	6.44	16.7	7.57	19.2	8.71	21.7	9.84
1.8	0.82	4.3	1.95	6.8	3.09	9.3	4.22	11.8	5.36	14.3	6.49	16.8	7.62	19.3	8.76	21.8	9.89
1.9	0.86	4.4	1.99	6.9	3.13	9.4	4.26	11.9	5.40	14.4	6.54	16.9	7.66	19.4	8.80	21.9	9.93
2.0	0.91	4.5	2.04	7.0	3.18	9.5	4.31	12.0	5.44	14.5	6.58	17.0	7.71	19.5	8.85	22.0	9.98
2.1	0.95	4.6	2.09	7.1	3.23	9.6	4.36	12.1	5.49	14.6	6.63	17.1	7.76	19.6	8.90	22.1	10.03
2.2	1.00	4.7	2.13	7.2	3.27	9.7	4.40	12.2	5.53	14.7	6.67	17.2	7.80	19.7	8.94	22.2	10.07
2.3	1.04	4.8	2.18	7.3	3.32	9.8	4.45	12.3	5.58	14.8	6.72	17.3	7.85	19.8	8.99	22.3	10.12
2.4	1.09	4.9	2.22	7.4	3.36	9.9	4.49	12.4	5.62	14.9	6.76	17.4	7.89	19.9	9.03	22.4	10.16
2.5	1.13	5.0	2.27	7.5	3.40	10.0	4.54	12.5	5.67	15.0	6.80	17.5	7.94	20.0	9.07	22.5	10.21

TABLE 3. PRESSURE CONVERSION

atü	-	psig	atü	-	psig	atü	-	psig	atü	-	psig
0.5		7.3	25.5		374.7	50.5		742.1	75.5		1109.5
1.0		14.7	26.0		382.1	51.0		749.5	76.0		1116.9
1.5		22.0	26.5		389.4	51.5		756.8	76.5		1124.2
2.0		29.4	27.0		396.8	52.0		764.2	77.0		1131.6
2.5		36.7	27.5		404.1	52.5		771.5	77.5		1138.9
			28.0		411.5	53.0		778.9	78.0		1146.3
3.0		44.1	28.5		418.8	53.5		786.2	78.5		1153.6
3.5		51.4	29.0		426.2	54.0		793.6	79.0		1161.0
4.0		58.8	29.5		433.5	54.5		800.9	79.5		1168.3
4.5		66.1	30.0		440.9	55.0		808.3	80.0		1175.7
5.0		73.5									
			30.5		448.2	55.5		815.6	80.5		1183.0
5.5		80.8	31.0		455.6	56.0		823.0	81.0		1190.4
6.0		88.2	31.5		462.9	56.5		830.3	81.5		1197.7
6.5		95.5	32.0		470.3	57.0		837.7	82.0		1205.1
7.0		102.9	32.5		477.6	57.5		845.0	82.5		1212.4
7.5		110.2									
			33.0		485.0	58.0		852.4	83.0		1219.8
8.0		117.6	33.5		492.3	58.5		859.7	83.5		1227.1
8.5		124.9	34.0		499.7	59.0		867.1	84.0		1234.5
9.0		132.3	34.5		507.0	59.5		874.4	84.5		1241.8
9.5		139.6	35.0		514.4	60.0		881.8	85.0		1249.2
10.0		147.0									
			35.5		521.7	60.5		889.1	85.5		1256.5
10.5		154.3	36.0		529.1	61.0		896.5	86.0		1263.9
11.0		161.7	36.5		536.4	61.5		903.8	86.5		1271.2
11.5		169.0	37.0		543.8	62.0		911.2	87.0		1278.6
12.0		176.4	37.5		551.1	62.5		918.5	87.5		1285.9
12.5		183.7									
			38.0		558.4	63.0		925.8	88.0		1293.2
13.0		191.0	38.5		565.8	63.5		933.2	88.5		1300.6
13.5		198.4	39.0		573.1	64.0		940.5	89.0		1307.9
14.0		205.7	39.5		580.5	64.5		947.9	89.5		1315.3
14.5		213.1	40.0		587.8	65.0		955.2	90.0		1322.6
15.0		220.4									
			40.5		595.2	65.5		962.6	90.5		1330.0
15.5		227.8	41.0		602.5	66.0		969.9	91.0		1337.3
16.0		235.1	41.5		609.9	66.5		977.3	91.5		1344.7
16.5		242.5	42.0		617.2	67.0		984.6	92.0		1352.0
17.0		249.8	42.5		624.6	67.5		992.0	92.5		1359.4
17.5		257.2									
			43.0		631.9	68.0		999.3	93.0		1366.7
18.0		264.5	43.5		639.3	68.5		1006.7	93.5		1374.1
18.5		271.9	44.0		646.6	69.0		1014.0	94.0		1381.4
19.0		279.2	44.5		654.0	69.5		1021.4	94.5		1388.8
19.5		286.6	45.0		661.3	70.0		1028.7	95.0		1396.1
20.0		293.9									
			45.5		668.7	70.5		1036.1	95.5		1403.5
20.5		301.3	46.0		676.0	71.0		1043.4	96.0		1410.8
21.0		308.6	46.5		683.4	71.5		1050.8	96.5		1418.2
21.5		316.0	47.0		690.7	72.0		1058.1	97.0		1425.5
22.0		323.3	47.5		698.1	72.5		1065.5	97.5		1432.9
22.5		330.7									
			48.0		705.4	73.0		1072.8	98.0		1440.2
23.0		338.0	48.5		712.8	73.5		1080.2	98.5		1447.6
23.5		345.4	49.0		720.1	74.0		1087.5	99.0		1454.9
24.0		352.7	49.5		727.5	74.5		1094.9	99.5		1462.3
24.5		360.1	50.0		734.8	75.0		1102.2	100.0		1469.6
25.0		367.4									

TABLE 3. PRESSURE CONVERSION (Continued)

atü	-	psig	atü	-	psig	atü	-	psig	atü	-	psig
100.5		1476.9	125.5		1844.3	150.5		2211.7	175.5		2579.1
101.0		1484.3	126.0		1851.7	151.0		2219.1	176.0		2586.5
101.5		1491.6	126.5		1859.0	151.5		2226.4	176.5		2593.8
102.0		1499.0	127.0		1866.4	152.0		2233.8	177.0		2601.2
102.5		1506.3	127.5		1873.7	152.5		2241.1	177.5		2608.5
103.0		1513.7	128.0		1881.1	153.0		2248.5	178.0		2615.9
103.5		1521.0	128.5		1888.4	153.5		2255.8	178.5		2623.2
104.0		1528.4	129.0		1895.8	154.0		2263.2	179.0		2630.6
104.5		1535.7	129.5		1903.1	154.5		2270.5	179.5		2637.9
105.0		1543.1	130.0		1910.5	155.0		2277.9	180.0		2645.3
105.5		1550.4	130.5		1917.8	155.5		2285.2	180.5		2652.6
106.0		1557.8	131.0		1925.2	156.0		2292.6	181.0		2660.0
106.5		1565.1	131.5		1932.5	156.5		2299.9	181.5		2667.3
107.0		1572.5	132.0		1939.9	157.0		2307.3	182.0		2674.7
107.5		1579.8	132.5		1947.2	157.5		2314.6	182.5		2682.0
108.0		1587.2	133.0		1954.6	158.0		2322.0	183.0		2689.4
108.5		1594.5	133.5		1961.9	158.5		2329.3	183.5		2696.7
109.0		1601.9	134.0		1969.3	159.0		2336.7	184.0		2704.1
109.5		1609.2	134.5		1976.6	159.5		2344.0	184.5		2711.4
110.0		1616.6	135.0		1984.0	160.0		2351.4	185.0		2718.8
110.5		1623.9	135.5		1991.3	160.5		2358.7	185.5		2726.1
111.0		1631.3	136.0		1998.7	161.0		2366.1	186.0		2733.5
111.5		1638.6	136.5		2006.0	161.5		2373.4	186.5		2740.8
112.0		1646.0	137.0		2013.4	162.0		2380.8	187.0		2748.2
112.5		1653.3	137.5		2020.7	162.5		2388.1	187.5		2755.5
113.0		1660.6	138.0		2028.0	163.0		2395.4	188.0		2762.8
113.5		1668.0	138.5		2035.4	163.5		2402.8	188.5		2770.2
114.0		1675.3	139.0		2042.7	164.0		2410.1	189.0		2777.5
114.5		1682.7	139.5		2050.1	164.5		2417.5	189.5		2784.9
115.0		1690.0	140.0		2057.4	165.0		2424.8	190.0		2792.2
115.5		1697.4	140.5		2064.8	165.5		2432.2	190.5		2799.6
116.0		1704.7	141.0		2072.1	166.0		2439.5	191.0		2806.9
116.5		1712.1	141.5		2079.5	166.5		2446.9	191.5		2814.3
117.0		1719.4	142.0		2086.8	167.0		2454.2	192.0		2821.6
117.5		1726.8	142.5		2094.2	167.5		2461.6	192.5		2829.0
118.0		1734.1	143.0		2101.5	168.0		2468.9	193.0		2836.3
118.5		1741.5	143.5		2108.9	168.5		2476.3	193.5		2843.7
119.0		1748.8	144.0		2116.2	169.0		2483.6	194.0		2851.0
119.5		1756.2	144.5		2123.6	169.5		2491.0	194.5		2858.4
120.0		1763.5	145.0		2130.9	170.0		2498.3	195.0		2865.7
120.5		1770.9	145.5		2138.3	170.5		2505.7	195.5		2873.1
121.0		1778.2	146.0		2145.6	171.0		2513.0	196.0		2880.4
121.5		1785.6	146.5		2153.0	171.5		2520.4	196.5		2887.8
122.0		1792.9	147.0		2160.3	172.0		2527.7	197.0		2895.1
122.5		1800.3	147.5		2167.7	172.5		2535.1	197.5		2902.5
123.0		1807.6	148.0		2175.0	173.0		2542.4	198.0		2909.8
123.5		1815.0	148.5		2182.4	173.5		2549.8	198.5		2917.2
124.0		1822.3	149.0		2189.7	174.0		2557.1	199.0		2924.5
124.5		1829.7	149.5		2197.1	174.5		2564.5	199.5		2931.9
125.0		1837.0	150.0		2204.4	175.0		2571.8	200.0		2939.2

INFLATION TABLES
FOR
HYDROGEN
98.5 PER CENT PURITY
IN
6 CUBIC METER CYLINDERS

0.5 to 200 atü
-40 to +40°C

				Temperature, °C - 40.0			
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.36	50.5	2.67	75.5	3.92
1.0	0.03	26.0	1.39	51.0	2.69	76.0	3.95
1.5	0.06	26.5	1.41	51.5	2.72	76.5	3.97
2.0	0.08	27.0	1.44	52.0	2.74	77.0	3.99
2.5	0.11	27.5	1.47	52.5	2.77	77.5	4.02
3.0	0.14	28.0	1.49	53.0	2.79	78.0	4.04
3.5	0.17	28.5	1.52	53.5	2.82	78.5	4.07
4.0	0.19	29.0	1.55	54.0	2.84	79.0	4.09
4.5	0.22	29.5	1.57	54.5	2.87	79.5	4.12
5.0	0.25	30.0	1.60	55.0	2.90	80.0	4.14
5.5	0.28	30.5	1.62	55.5	2.92	80.5	4.17
6.0	0.30	31.0	1.65	56.0	2.95	81.0	4.19
6.5	0.33	31.5	1.68	56.5	2.97	81.5	4.21
7.0	0.36	32.0	1.70	57.0	3.00	82.0	4.24
7.5	0.39	32.5	1.73	57.5	3.02	82.5	4.26
8.0	0.41	33.0	1.76	58.0	3.05	83.0	4.29
8.5	0.44	33.5	1.78	58.5	3.07	83.5	4.31
9.0	0.47	34.0	1.81	59.0	3.10	84.0	4.34
9.5	0.50	34.5	1.84	59.5	3.12	84.5	4.36
10.0	0.52	35.0	1.86	60.0	3.15	85.0	4.38
10.5	0.55	35.5	1.89	60.5	3.17	85.5	4.41
11.0	0.58	36.0	1.91	61.0	3.20	86.0	4.43
11.5	0.60	36.5	1.94	61.5	3.22	86.5	4.46
12.0	0.63	37.0	1.97	62.0	3.25	87.0	4.48
12.5	0.66	37.5	1.99	62.5	3.27	87.5	4.50
13.0	0.69	38.0	2.02	63.0	3.30	88.0	4.53
13.5	0.71	38.5	2.05	63.5	3.32	88.5	4.55
14.0	0.74	39.0	2.07	64.0	3.35	89.0	4.58
14.5	0.77	39.5	2.10	64.5	3.38	89.5	4.60
15.0	0.79	40.0	2.12	65.0	3.40	90.0	4.63
15.5	0.82	40.5	2.15	65.5	3.43	90.5	4.65
16.0	0.85	41.0	2.18	66.0	3.45	91.0	4.67
16.5	0.88	41.5	2.20	66.5	3.47	91.5	4.70
17.0	0.90	42.0	2.23	67.0	3.50	92.0	4.72
17.5	0.93	42.5	2.25	67.5	3.52	92.5	4.74
18.0	0.96	43.0	2.28	68.0	3.55	93.0	4.77
18.5	0.98	43.5	2.31	68.5	3.57	93.5	4.79
19.0	1.01	44.0	2.33	69.0	3.60	94.0	4.82
19.5	1.04	44.5	2.36	69.5	3.62	94.5	4.84
20.0	1.06	45.0	2.38	70.0	3.65	95.0	4.86
20.5	1.09	45.5	2.41	70.5	3.67	95.5	4.89
21.0	1.12	46.0	2.43	71.0	3.70	96.0	4.91
21.5	1.15	46.5	2.46	71.5	3.72	96.5	4.94
22.0	1.17	47.0	2.49	72.0	3.75	97.0	4.96
22.5	1.20	47.5	2.51	72.5	3.77	97.5	4.98
23.0	1.23	48.0	2.54	73.0	3.80	98.0	5.01
23.5	1.25	48.5	2.56	73.5	3.82	98.5	5.03
24.0	1.28	49.0	2.59	74.0	3.85	99.0	5.05
24.5	1.31	49.5	2.61	74.5	3.87	99.5	5.08
25.0	1.33	50.0	2.64	75.0	3.90	100.0	5.10

Temperature, °F - 40.0

				Temperature, °C											
				= 40.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		5.12		125.5		6.28		150.5		7.38		175.5		8.44	
101.0		5.15		126.0		6.30		151.0		7.40		176.0		8.46	
101.5		5.17		126.5		6.32		151.5		7.43		176.5		8.48	
102.0		5.19		127.0		6.35		152.0		7.45		177.0		8.50	
102.5		5.22		127.5		6.37		152.5		7.47		177.5		8.52	
103.0		5.24		128.0		6.39		153.0		7.49		178.0		8.54	
103.5		5.27		128.5		6.41		153.5		7.51		178.5		8.56	
104.0		5.29		129.0		6.44		154.0		7.53		179.0		8.58	
104.5		5.31		129.5		6.46		154.5		7.55		179.5		8.60	
105.0		5.34		130.0		6.48		155.0		7.58		180.0		8.62	
105.5		5.36		130.5		6.50		155.5		7.60		180.5		8.64	
106.0		5.38		131.0		6.52		156.0		7.62		181.0		8.66	
106.5		5.41		131.5		6.55		156.5		7.64		181.5		8.68	
107.0		5.43		132.0		6.57		157.0		7.66		182.0		8.70	
107.5		5.45		132.5		6.59		157.5		7.68		182.5		8.73	
108.0		5.48		133.0		6.61		158.0		7.70		183.0		8.75	
108.5		5.50		133.5		6.64		158.5		7.73		183.5		8.77	
109.0		5.52		134.0		6.66		159.0		7.75		184.0		8.79	
109.5		5.55		134.5		6.68		159.5		7.77		184.5		8.81	
110.0		5.57		135.0		6.70		160.0		7.79		185.0		8.83	
110.5		5.59		135.5		6.73		160.5		7.81		185.5		8.85	
111.0		5.61		136.0		6.75		161.0		7.83		186.0		8.87	
111.5		5.64		136.5		6.77		161.5		7.85		186.5		8.89	
112.0		5.66		137.0		6.79		162.0		7.87		187.0		8.91	
112.5		5.68		137.5		6.81		162.5		7.89		187.5		8.93	
113.0		5.71		138.0		6.84		163.0		7.92		188.0		8.95	
113.5		5.73		138.5		6.86		163.5		7.94		188.5		8.97	
114.0		5.75		139.0		6.88		164.0		7.96		189.0		8.99	
114.5		5.78		139.5		6.90		164.5		7.98		189.5		9.01	
115.0		5.80		140.0		6.92		165.0		8.00		190.0		9.03	
115.5		5.82		140.5		6.95		165.5		8.02		190.5		9.05	
116.0		5.85		141.0		6.97		166.0		8.04		191.0		9.07	
116.5		5.87		141.5		6.99		166.5		8.06		191.5		9.09	
117.0		5.89		142.0		7.01		167.0		8.08		192.0		9.11	
117.5		5.91		142.5		7.03		167.5		8.11		192.5		9.13	
118.0		5.94		143.0		7.06		168.0		8.13		193.0		9.15	
118.5		5.96		143.5		7.08		168.5		8.15		193.5		9.17	
119.0		5.98		144.0		7.10		169.0		8.17		194.0		9.19	
119.5		6.01		144.5		7.12		169.5		8.19		194.5		9.21	
120.0		6.03		145.0		7.14		170.0		8.21		195.0		9.23	
120.5		6.05		145.5		7.17		170.5		8.23		195.5		9.25	
121.0		6.07		146.0		7.19		171.0		8.25		196.0		9.27	
121.5		6.10		146.5		7.21		171.5		8.27		196.5		9.29	
122.0		6.12		147.0		7.23		172.0		8.29		197.0		9.31	
122.5		6.14		147.5		7.25		172.5		8.31		197.5		9.33	
123.0		6.16		148.0		7.27		173.0		8.33		198.0		9.35	
123.5		6.19		148.5		7.30		173.5		8.36		198.5		9.37	
124.0		6.21		149.0		7.32		174.0		8.38		199.0		9.39	
124.5		6.23		149.5		7.34		174.5		8.40		199.5		9.41	
125.0		6.26		150.0		7.36		175.0		8.42		200.0		9.43	

Temperature, °F = 40.0

atü - kg		atü - kg		Temperature, °C		atü - kg	
0.5	0.00	25.5	1.35	50.5	2.65	75.5	3.90
1.0	0.03	26.0	1.38	51.0	2.68	76.0	3.93
1.5	0.06	26.5	1.41	51.5	2.71	76.5	3.95
2.0	0.08	27.0	1.43	52.0	2.73	77.0	3.98
2.5	0.11	27.5	1.46	52.5	2.76	77.5	4.00
3.0	0.14	28.0	1.49	53.0	2.78	78.0	4.03
3.5	0.17	28.5	1.51	53.5	2.81	78.5	4.05
4.0	0.19	29.0	1.54	54.0	2.83	79.0	4.07
4.5	0.22	29.5	1.57	54.5	2.86	79.5	4.10
5.0	0.25	30.0	1.59	55.0	2.88	80.0	4.12
5.5	0.27	30.5	1.62	55.5	2.91	80.5	4.15
6.0	0.30	31.0	1.64	56.0	2.93	81.0	4.17
6.5	0.33	31.5	1.67	56.5	2.96	81.5	4.20
7.0	0.36	32.0	1.70	57.0	2.98	82.0	4.22
7.5	0.38	32.5	1.72	57.5	3.01	82.5	4.24
8.0	0.41	33.0	1.75	58.0	3.03	83.0	4.27
8.5	0.44	33.5	1.78	58.5	3.06	83.5	4.29
9.0	0.47	34.0	1.80	59.0	3.09	84.0	4.32
9.5	0.49	34.5	1.83	59.5	3.11	84.5	4.34
10.0	0.52	35.0	1.85	60.0	3.14	85.0	4.37
10.5	0.55	35.5	1.88	60.5	3.16	85.5	4.39
11.0	0.57	36.0	1.91	61.0	3.19	86.0	4.41
11.5	0.60	36.5	1.93	61.5	3.21	86.5	4.44
12.0	0.63	37.0	1.96	62.0	3.24	87.0	4.46
12.5	0.66	37.5	1.98	62.5	3.26	87.5	4.49
13.0	0.68	38.0	2.01	63.0	3.29	88.0	4.51
13.5	0.71	38.5	2.04	63.5	3.31	88.5	4.53
14.0	0.74	39.0	2.06	64.0	3.34	89.0	4.56
14.5	0.76	39.5	2.09	64.5	3.36	89.5	4.58
15.0	0.79	40.0	2.11	65.0	3.39	90.0	4.61
15.5	0.82	40.5	2.14	65.5	3.41	90.5	4.63
16.0	0.85	41.0	2.17	66.0	3.44	91.0	4.65
16.5	0.87	41.5	2.19	66.5	3.46	91.5	4.68
17.0	0.90	42.0	2.22	67.0	3.48	92.0	4.70
17.5	0.93	42.5	2.24	67.5	3.51	92.5	4.72
18.0	0.95	43.0	2.27	68.0	3.53	93.0	4.75
18.5	0.98	43.5	2.30	68.5	3.56	93.5	4.77
19.0	1.01	44.0	2.32	69.0	3.58	94.0	4.80
19.5	1.03	44.5	2.35	69.5	3.61	94.5	4.82
20.0	1.06	45.0	2.37	70.0	3.63	95.0	4.84
20.5	1.09	45.5	2.40	70.5	3.66	95.5	4.87
21.0	1.11	46.0	2.42	71.0	3.68	96.0	4.89
21.5	1.14	46.5	2.45	71.5	3.71	96.5	4.91
22.0	1.17	47.0	2.48	72.0	3.73	97.0	4.94
22.5	1.19	47.5	2.50	72.5	3.76	97.5	4.96
23.0	1.22	48.0	2.53	73.0	3.78	98.0	4.99
23.5	1.25	48.5	2.55	73.5	3.81	98.5	5.01
24.0	1.27	49.0	2.58	74.0	3.83	99.0	5.03
24.5	1.30	49.5	2.60	74.5	3.86	99.5	5.06
25.0	1.33	50.0	2.63	75.0	3.88	100.0	5.08

Temperature, °F

= 38.2

				Temperature, °C											
				- 39.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		5.10		125.5		6.25		150.5		7.35		175.5		8.40	
101.0		5.13		126.0		6.27		151.0		7.37		176.0		8.42	
101.5		5.15		126.5		6.30		151.5		7.39		176.5		8.44	
102.0		5.17		127.0		6.32		152.0		7.42		177.0		8.46	
102.5		5.20		127.5		6.34		152.5		7.44		177.5		8.49	
103.0		5.22		128.0		6.36		153.0		7.46		178.0		8.51	
103.5		5.24		128.5		6.39		153.5		7.48		178.5		8.53	
104.0		5.27		129.0		6.41		154.0		7.50		179.0		8.55	
104.5		5.29		129.5		6.43		154.5		7.52		179.5		8.57	
105.0		5.31		130.0		6.45		155.0		7.54		180.0		8.59	
105.5		5.34		130.5		6.48		155.5		7.57		180.5		8.61	
106.0		5.36		131.0		6.50		156.0		7.59		181.0		8.63	
106.5		5.38		131.5		6.52		156.5		7.61		181.5		8.65	
107.0		5.41		132.0		6.54		157.0		7.63		182.0		8.67	
107.5		5.43		132.5		6.56		157.5		7.65		182.5		8.69	
108.0		5.45		133.0		6.59		158.0		7.67		183.0		8.71	
108.5		5.48		133.5		6.61		158.5		7.69		183.5		8.73	
109.0		5.50		134.0		6.63		159.0		7.71		184.0		8.75	
109.5		5.52		134.5		6.65		159.5		7.74		184.5		8.77	
110.0		5.54		135.0		6.67		160.0		7.76		185.0		8.79	
110.5		5.57		135.5		6.70		160.5		7.78		185.5		8.81	
111.0		5.59		136.0		6.72		161.0		7.80		186.0		8.83	
111.5		5.61		136.5		6.74		161.5		7.82		186.5		8.85	
112.0		5.64		137.0		6.76		162.0		7.84		187.0		8.87	
112.5		5.66		137.5		6.79		162.5		7.86		187.5		8.89	
113.0		5.68		138.0		6.81		163.0		7.88		188.0		8.91	
113.5		5.71		138.5		6.83		163.5		7.90		188.5		8.93	
114.0		5.73		139.0		6.85		164.0		7.93		189.0		8.95	
114.5		5.75		139.5		6.87		164.5		7.95		189.5		8.97	
115.0		5.77		140.0		6.90		165.0		7.97		190.0		8.99	
115.5		5.80		140.5		6.92		165.5		7.99		190.5		9.01	
116.0		5.82		141.0		6.94		166.0		8.01		191.0		9.03	
116.5		5.84		141.5		6.96		166.5		8.03		191.5		9.05	
117.0		5.87		142.0		6.98		167.0		8.05		192.0		9.07	
117.5		5.89		142.5		7.00		167.5		8.07		192.5		9.09	
118.0		5.91		143.0		7.03		168.0		8.09		193.0		9.11	
118.5		5.93		143.5		7.05		168.5		8.11		193.5		9.13	
119.0		5.96		144.0		7.07		169.0		8.13		194.0		9.15	
119.5		5.98		144.5		7.09		169.5		8.16		194.5		9.17	
120.0		6.00		145.0		7.11		170.0		8.18		195.0		9.19	
120.5		6.03		145.5		7.14		170.5		8.20		195.5		9.21	
121.0		6.05		146.0		7.16		171.0		8.22		196.0		9.23	
121.5		6.07		146.5		7.18		171.5		8.24		196.5		9.25	
122.0		6.09		147.0		7.20		172.0		8.26		197.0		9.27	
122.5		6.12		147.5		7.22		172.5		8.28		197.5		9.29	
123.0		6.14		148.0		7.24		173.0		8.30		198.0		9.31	
123.5		6.16		148.5		7.26		173.5		8.32		198.5		9.33	
124.0		6.18		149.0		7.29		174.0		8.34		199.0		9.35	
124.5		6.21		149.5		7.31		174.5		8.36		199.5		9.37	
125.0		6.23		150.0		7.33		175.0		8.38		200.0		9.39	

Temperature, °F

- 38.2

				Temperature, °C		- 36.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.34	50.5	2.62	75.5	3.85
1.0	0.03	26.0	1.36	51.0	2.65	76.0	3.88
1.5	0.05	26.5	1.39	51.5	2.67	76.5	3.90
2.0	0.08	27.0	1.41	52.0	2.70	77.0	3.93
2.5	0.11	27.5	1.44	52.5	2.72	77.5	3.95
3.0	0.14	28.0	1.47	53.0	2.75	78.0	3.98
3.5	0.16	28.5	1.49	53.5	2.77	78.5	4.00
4.0	0.19	29.0	1.52	54.0	2.80	79.0	4.02
4.5	0.22	29.5	1.55	54.5	2.82	79.5	4.05
5.0	0.24	30.0	1.57	55.0	2.85	80.0	4.07
5.5	0.27	30.5	1.60	55.5	2.87	80.5	4.10
6.0	0.30	31.0	1.62	56.0	2.90	81.0	4.12
6.5	0.33	31.5	1.65	56.5	2.92	81.5	4.14
7.0	0.35	32.0	1.68	57.0	2.95	82.0	4.17
7.5	0.38	32.5	1.70	57.5	2.97	82.5	4.19
8.0	0.41	33.0	1.73	58.0	3.00	83.0	4.22
8.5	0.43	33.5	1.75	58.5	3.02	83.5	4.24
9.0	0.46	34.0	1.78	59.0	3.05	84.0	4.26
9.5	0.49	34.5	1.80	59.5	3.07	84.5	4.29
10.0	0.51	35.0	1.83	60.0	3.10	85.0	4.31
10.5	0.54	35.5	1.86	60.5	3.12	85.5	4.33
11.0	0.57	36.0	1.88	61.0	3.15	86.0	4.36
11.5	0.59	36.5	1.91	61.5	3.17	86.5	4.38
12.0	0.62	37.0	1.93	62.0	3.19	87.0	4.41
12.5	0.65	37.5	1.96	62.5	3.22	87.5	4.43
13.0	0.67	38.0	1.98	63.0	3.24	88.0	4.45
13.5	0.70	38.5	2.01	63.5	3.27	88.5	4.48
14.0	0.73	39.0	2.04	64.0	3.29	89.0	4.50
14.5	0.75	39.5	2.06	64.5	3.32	89.5	4.52
15.0	0.78	40.0	2.09	65.0	3.34	90.0	4.55
15.5	0.81	40.5	2.11	65.5	3.37	90.5	4.57
16.0	0.83	41.0	2.14	66.0	3.39	91.0	4.59
16.5	0.86	41.5	2.16	66.5	3.42	91.5	4.62
17.0	0.89	42.0	2.19	67.0	3.44	92.0	4.64
17.5	0.91	42.5	2.22	67.5	3.47	92.5	4.67
18.0	0.94	43.0	2.24	68.0	3.49	93.0	4.69
18.5	0.97	43.5	2.27	68.5	3.51	93.5	4.71
19.0	0.99	44.0	2.29	69.0	3.54	94.0	4.74
19.5	1.02	44.5	2.32	69.5	3.56	94.5	4.76
20.0	1.05	45.0	2.34	70.0	3.59	95.0	4.78
20.5	1.07	45.5	2.37	70.5	3.61	95.5	4.81
21.0	1.10	46.0	2.39	71.0	3.64	96.0	4.83
21.5	1.13	46.5	2.42	71.5	3.66	96.5	4.85
22.0	1.15	47.0	2.44	72.0	3.69	97.0	4.88
22.5	1.18	47.5	2.47	72.5	3.71	97.5	4.90
23.0	1.20	48.0	2.49	73.0	3.73	98.0	4.92
23.5	1.23	48.5	2.52	73.5	3.76	98.5	4.95
24.0	1.26	49.0	2.55	74.0	3.78	99.0	4.97
24.5	1.28	49.5	2.57	74.5	3.81	99.5	4.99
25.0	1.31	50.0	2.60	75.0	3.83	100.0	5.02

Temperature, °F - 32.8

				Temperature, °C											
				- 34.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.33		50.5		2.60		75.5		3.82	
1.0		0.03		26.0		1.35		51.0		2.62		76.0		3.85	
1.5		0.05		26.5		1.38		51.5		2.65		76.5		3.87	
2.0		0.08		27.0		1.40		52.0		2.67		77.0		3.89	
2.5		0.11		27.5		1.43		52.5		2.70		77.5		3.92	
3.0		0.13		28.0		1.45		53.0		2.72		78.0		3.94	
3.5		0.16		28.5		1.48		53.5		2.75		78.5		3.97	
4.0		0.19		29.0		1.51		54.0		2.77		79.0		3.99	
4.5		0.22		29.5		1.53		54.5		2.80		79.5		4.01	
5.0		0.24		30.0		1.56		55.0		2.82		80.0		4.04	
5.5		0.27		30.5		1.58		55.5		2.85		80.5		4.06	
6.0		0.30		31.0		1.61		56.0		2.87		81.0		4.09	
6.5		0.32		31.5		1.64		56.5		2.90		81.5		4.11	
7.0		0.35		32.0		1.66		57.0		2.92		82.0		4.13	
7.5		0.38		32.5		1.69		57.5		2.95		82.5		4.16	
8.0		0.40		33.0		1.71		58.0		2.97		83.0		4.18	
8.5		0.43		33.5		1.74		58.5		3.00		83.5		4.20	
9.0		0.46		34.0		1.76		59.0		3.02		84.0		4.23	
9.5		0.48		34.5		1.79		59.5		3.05		84.5		4.25	
10.0		0.51		35.0		1.82		60.0		3.07		85.0		4.27	
10.5		0.54		35.5		1.84		60.5		3.09		85.5		4.30	
11.0		0.56		36.0		1.87		61.0		3.12		86.0		4.32	
11.5		0.59		36.5		1.89		61.5		3.14		86.5		4.35	
12.0		0.62		37.0		1.92		62.0		3.17		87.0		4.37	
12.5		0.64		37.5		1.94		62.5		3.19		87.5		4.39	
13.0		0.67		38.0		1.97		63.0		3.22		88.0		4.42	
13.5		0.70		38.5		1.99		63.5		3.24		88.5		4.44	
14.0		0.72		39.0		2.02		64.0		3.27		89.0		4.46	
14.5		0.75		39.5		2.04		64.5		3.29		89.5		4.49	
15.0		0.77		40.0		2.07		65.0		3.31		90.0		4.51	
15.5		0.80		40.5		2.10		65.5		3.34		90.5		4.53	
16.0		0.83		41.0		2.12		66.0		3.36		91.0		4.56	
16.5		0.85		41.5		2.15		66.5		3.39		91.5		4.58	
17.0		0.88		42.0		2.17		67.0		3.41		92.0		4.60	
17.5		0.91		42.5		2.20		67.5		3.44		92.5		4.63	
18.0		0.93		43.0		2.22		68.0		3.46		93.0		4.65	
18.5		0.96		43.5		2.25		68.5		3.48		93.5		4.67	
19.0		0.99		44.0		2.27		69.0		3.51		94.0		4.70	
19.5		1.01		44.5		2.30		69.5		3.53		94.5		4.72	
20.0		1.04		45.0		2.32		70.0		3.56		95.0		4.74	
20.5		1.06		45.5		2.35		70.5		3.58		95.5		4.77	
21.0		1.09		46.0		2.37		71.0		3.61		96.0		4.79	
21.5		1.12		46.5		2.40		71.5		3.63		96.5		4.81	
22.0		1.14		47.0		2.42		72.0		3.65		97.0		4.84	
22.5		1.17		47.5		2.45		72.5		3.68		97.5		4.86	
23.0		1.19		48.0		2.47		73.0		3.70		98.0		4.88	
23.5		1.22		48.5		2.50		73.5		3.73		98.5		4.90	
24.0		1.25		49.0		2.52		74.0		3.75		99.0		4.93	
24.5		1.27		49.5		2.55		74.5		3.77		99.5		4.95	
25.0		1.30		50.0		2.57		75.0		3.80		100.0		4.97	

Temperature, °C - 34.0								
atü	-	kg	atü	-	kg	atü	-	kg
100.5		5.00	125.5		6.12	150.5		7.20
101.0		5.02	126.0		6.14	151.0		7.22
101.5		5.04	126.5		6.17	151.5		7.24
102.0		5.07	127.0		6.19	152.0		7.26
102.5		5.09	127.5		6.21	152.5		7.29
103.0		5.11	128.0		6.23	153.0		7.31
103.5		5.13	128.5		6.25	153.5		7.33
104.0		5.16	129.0		6.28	154.0		7.35
104.5		5.18	129.5		6.30	154.5		7.37
105.0		5.20	130.0		6.32	155.0		7.39
105.5		5.23	130.5		6.34	155.5		7.41
106.0		5.25	131.0		6.36	156.0		7.43
106.5		5.27	131.5		6.39	156.5		7.45
107.0		5.29	132.0		6.41	157.0		7.47
107.5		5.32	132.5		6.43	157.5		7.49
108.0		5.34	133.0		6.45	158.0		7.52
108.5		5.36	133.5		6.47	158.5		7.54
109.0		5.38	134.0		6.49	159.0		7.56
109.5		5.41	134.5		6.52	159.5		7.58
110.0		5.43	135.0		6.54	160.0		7.60
110.5		5.45	135.5		6.56	160.5		7.62
111.0		5.48	136.0		6.58	161.0		7.64
111.5		5.50	136.5		6.60	161.5		7.66
112.0		5.52	137.0		6.62	162.0		7.68
112.5		5.54	137.5		6.65	162.5		7.70
113.0		5.57	138.0		6.67	163.0		7.72
113.5		5.59	138.5		6.69	163.5		7.74
114.0		5.61	139.0		6.71	164.0		7.76
114.5		5.63	139.5		6.73	164.5		7.78
115.0		5.66	140.0		6.75	165.0		7.81
115.5		5.68	140.5		6.78	165.5		7.83
116.0		5.70	141.0		6.80	166.0		7.85
116.5		5.72	141.5		6.82	166.5		7.87
117.0		5.75	142.0		6.84	167.0		7.89
117.5		5.77	142.5		6.86	167.5		7.91
118.0		5.79	143.0		6.88	168.0		7.93
118.5		5.81	143.5		6.90	168.5		7.95
119.0		5.83	144.0		6.93	169.0		7.97
119.5		5.86	144.5		6.95	169.5		7.99
120.0		5.88	145.0		6.97	170.0		8.01
120.5		5.90	145.5		6.99	170.5		8.03
121.0		5.92	146.0		7.01	171.0		8.05
121.5		5.95	146.5		7.03	171.5		8.07
122.0		5.97	147.0		7.05	172.0		8.09
122.5		5.99	147.5		7.07	172.5		8.11
123.0		6.01	148.0		7.10	173.0		8.13
123.5		6.03	148.5		7.12	173.5		8.15
124.0		6.06	149.0		7.14	174.0		8.17
124.5		6.08	149.5		7.16	174.5		8.19
125.0		6.10	150.0		7.18	175.0		8.21
						175.5		8.23
						176.0		8.25
						176.5		8.27
						177.0		8.29
						177.5		8.31
						178.0		8.33
						178.5		8.35
						179.0		8.37
						179.5		8.39
						180.0		8.41
						180.5		8.43
						181.0		8.45
						181.5		8.47
						182.0		8.49
						182.5		8.51
						183.0		8.53
						183.5		8.55
						184.0		8.57
						184.5		8.59
						185.0		8.61
						185.5		8.63
						186.0		8.65
						186.5		8.67
						187.0		8.69
						187.5		8.71
						188.0		8.73
						188.5		8.75
						189.0		8.77
						189.5		8.79
						190.0		8.81
						190.5		8.83
						191.0		8.85
						191.5		8.87
						192.0		8.89
						192.5		8.91
						193.0		8.93
						193.5		8.95
						194.0		8.97
						194.5		8.99
						195.0		9.01
						195.5		9.03
						196.0		9.05
						196.5		9.07
						197.0		9.08
						197.5		9.10
						198.0		9.12
						198.5		9.14
						199.0		9.16
						199.5		9.18
						200.0		9.20

				Temperature, °C											
				- 33.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.32		50.5		2.59		75.5		3.81	
1.0		0.03		26.0		1.35		51.0		2.61		76.0		3.83	
1.5		0.05		26.5		1.37		51.5		2.64		76.5		3.85	
2.0		0.08		27.0		1.40		52.0		2.66		77.0		3.88	
2.5		0.11		27.5		1.42		52.5		2.69		77.5		3.90	
3.0		0.13		28.0		1.45		53.0		2.71		78.0		3.93	
3.5		0.16		28.5		1.47		53.5		2.74		78.5		3.95	
4.0		0.19		29.0		1.50		54.0		2.76		79.0		3.97	
4.5		0.21		29.5		1.53		54.5		2.79		79.5		4.00	
5.0		0.24		30.0		1.55		55.0		2.81		80.0		4.02	
5.5		0.27		30.5		1.58		55.5		2.84		80.5		4.04	
6.0		0.29		31.0		1.60		56.0		2.86		81.0		4.07	
6.5		0.32		31.5		1.63		56.5		2.89		81.5		4.09	
7.0		0.35		32.0		1.65		57.0		2.91		82.0		4.12	
7.5		0.37		32.5		1.68		57.5		2.93		82.5		4.14	
8.0		0.40		33.0		1.71		58.0		2.96		83.0		4.16	
8.5		0.43		33.5		1.73		58.5		2.98		83.5		4.19	
9.0		0.45		34.0		1.76		59.0		3.01		84.0		4.21	
9.5		0.48		34.5		1.78		59.5		3.03		84.5		4.23	
10.0		0.51		35.0		1.81		60.0		3.06		85.0		4.26	
10.5		0.53		35.5		1.83		60.5		3.08		85.5		4.28	
11.0		0.56		36.0		1.86		61.0		3.11		86.0		4.30	
11.5		0.59		36.5		1.88		61.5		3.13		86.5		4.33	
12.0		0.61		37.0		1.91		62.0		3.15		87.0		4.35	
12.5		0.64		37.5		1.93		62.5		3.18		87.5		4.37	
13.0		0.67		38.0		1.96		63.0		3.20		88.0		4.40	
13.5		0.69		38.5		1.99		63.5		3.23		88.5		4.42	
14.0		0.72		39.0		2.01		64.0		3.25		89.0		4.44	
14.5		0.75		39.5		2.04		64.5		3.28		89.5		4.47	
15.0		0.77		40.0		2.06		65.0		3.30		90.0		4.49	
15.5		0.80		40.5		2.09		65.5		3.33		90.5		4.51	
16.0		0.82		41.0		2.11		66.0		3.35		91.0		4.54	
16.5		0.85		41.5		2.14		66.5		3.37		91.5		4.56	
17.0		0.88		42.0		2.16		67.0		3.40		92.0		4.58	
17.5		0.90		42.5		2.19		67.5		3.42		92.5		4.61	
18.0		0.93		43.0		2.21		68.0		3.45		93.0		4.63	
18.5		0.96		43.5		2.24		68.5		3.47		93.5		4.65	
19.0		0.98		44.0		2.26		69.0		3.49		94.0		4.68	
19.5		1.01		44.5		2.29		69.5		3.52		94.5		4.70	
20.0		1.03		45.0		2.31		70.0		3.54		95.0		4.72	
20.5		1.06		45.5		2.34		70.5		3.57		95.5		4.75	
21.0		1.09		46.0		2.36		71.0		3.59		96.0		4.77	
21.5		1.11		46.5		2.39		71.5		3.62		96.5		4.79	
22.0		1.14		47.0		2.41		72.0		3.64		97.0		4.82	
22.5		1.16		47.5		2.44		72.5		3.66		97.5		4.84	
23.0		1.19		48.0		2.46		73.0		3.69		98.0		4.86	
23.5		1.22		48.5		2.49		73.5		3.71		98.5		4.88	
24.0		1.24		49.0		2.51		74.0		3.73		99.0		4.91	
24.5		1.27		49.5		2.54		74.5		3.76		99.5		4.93	
25.0		1.29		50.0		2.56		75.0		3.78		100.0		4.95	

Temperature, °F

- 27.4

Temperature, °C - 33.0								
atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.98	125.5		6.10	150.5		7.17
101.0		5.00	126.0		6.12	151.0		7.19
101.5		5.02	126.5		6.14	151.5		7.21
102.0		5.04	127.0		6.16	152.0		7.23
102.5		5.07	127.5		6.19	152.5		7.26
103.0		5.09	128.0		6.21	153.0		7.28
103.5		5.11	128.5		6.23	153.5		7.30
104.0		5.14	129.0		6.25	154.0		7.32
104.5		5.16	129.5		6.27	154.5		7.34
105.0		5.18	130.0		6.29	155.0		7.36
105.5		5.20	130.5		6.32	155.5		7.38
106.0		5.23	131.0		6.34	156.0		7.40
106.5		5.25	131.5		6.36	156.5		7.42
107.0		5.27	132.0		6.38	157.0		7.44
107.5		5.29	132.5		6.40	157.5		7.46
108.0		5.32	133.0		6.42	158.0		7.48
108.5		5.34	133.5		6.45	158.5		7.51
109.0		5.36	134.0		6.47	159.0		7.53
109.5		5.39	134.5		6.49	159.5		7.55
110.0		5.41	135.0		6.51	160.0		7.57
110.5		5.43	135.5		6.53	160.5		7.59
111.0		5.45	136.0		6.55	161.0		7.61
111.5		5.48	136.5		6.58	161.5		7.63
112.0		5.50	137.0		6.60	162.0		7.65
112.5		5.52	137.5		6.62	162.5		7.67
113.0		5.54	138.0		6.64	163.0		7.69
113.5		5.57	138.5		6.66	163.5		7.71
114.0		5.59	139.0		6.68	164.0		7.73
114.5		5.61	139.5		6.70	164.5		7.75
115.0		5.63	140.0		6.73	165.0		7.77
115.5		5.65	140.5		6.75	165.5		7.79
116.0		5.68	141.0		6.77	166.0		7.81
116.5		5.70	141.5		6.79	166.5		7.83
117.0		5.72	142.0		6.81	167.0		7.86
117.5		5.74	142.5		6.83	167.5		7.88
118.0		5.77	143.0		6.85	168.0		7.90
118.5		5.79	143.5		6.88	168.5		7.92
119.0		5.81	144.0		6.90	169.0		7.94
119.5		5.83	144.5		6.92	169.5		7.96
120.0		5.85	145.0		6.94	170.0		7.98
120.5		5.88	145.5		6.96	170.5		8.00
121.0		5.90	146.0		6.98	171.0		8.02
121.5		5.92	146.5		7.00	171.5		8.04
122.0		5.94	147.0		7.02	172.0		8.06
122.5		5.97	147.5		7.05	172.5		8.08
123.0		5.99	148.0		7.07	173.0		8.10
123.5		6.01	148.5		7.09	173.5		8.12
124.0		6.03	149.0		7.11	174.0		8.14
124.5		6.05	149.5		7.13	174.5		8.16
125.0		6.08	150.0		7.15	175.0		8.18
175.5		8.20	176.0		8.22	176.5		8.24
177.0		8.26	177.5		8.28	178.0		8.30
178.5		8.32	179.0		8.34	179.5		8.36
180.0		8.38	180.5		8.40	181.0		8.42
181.5		8.44	182.0		8.46	182.5		8.48
183.0		8.50	183.5		8.52	184.0		8.54
184.5		8.56	185.0		8.58	185.5		8.60
186.0		8.62	186.5		8.64	187.0		8.66
187.5		8.68	188.0		8.70	188.5		8.72
189.0		8.74	189.5		8.76	190.0		8.78
190.5		8.80	191.0		8.81	191.5		8.83
192.0		8.85	192.5		8.87	193.0		8.89
193.5		8.91	194.0		8.93	194.5		8.95
195.0		8.97	195.5		8.99	196.0		9.01
196.5		9.03	197.0		9.05	197.5		9.07
198.0		9.09	198.5		9.11	199.0		9.13
199.5		9.14	200.0		9.16			

Temperature, °F - 27.4

				Temperature, °C = 32.0			
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.31	50.5	2.58	75.5	3.79
1.0	0.03	26.0	1.34	51.0	2.60	76.0	3.81
1.5	0.05	26.5	1.37	51.5	2.63	76.5	3.84
2.0	0.08	27.0	1.39	52.0	2.65	77.0	3.86
2.5	0.11	27.5	1.42	52.5	2.68	77.5	3.89
3.0	0.13	28.0	1.44	53.0	2.70	78.0	3.91
3.5	0.16	28.5	1.47	53.5	2.73	78.5	3.93
4.0	0.19	29.0	1.49	54.0	2.75	79.0	3.96
4.5	0.21	29.5	1.52	54.5	2.77	79.5	3.98
5.0	0.24	30.0	1.55	55.0	2.80	80.0	4.00
5.5	0.27	30.5	1.57	55.5	2.82	80.5	4.03
6.0	0.29	31.0	1.60	56.0	2.85	81.0	4.05
6.5	0.32	31.5	1.62	56.5	2.87	81.5	4.07
7.0	0.35	32.0	1.65	57.0	2.90	82.0	4.10
7.5	0.37	32.5	1.67	57.5	2.92	82.5	4.12
8.0	0.40	33.0	1.70	58.0	2.95	83.0	4.15
8.5	0.43	33.5	1.72	58.5	2.97	83.5	4.17
9.0	0.45	34.0	1.75	59.0	3.00	84.0	4.19
9.5	0.48	34.5	1.77	59.5	3.02	84.5	4.22
10.0	0.51	35.0	1.80	60.0	3.04	85.0	4.24
10.5	0.53	35.5	1.83	60.5	3.07	85.5	4.26
11.0	0.56	36.0	1.85	61.0	3.09	86.0	4.29
11.5	0.58	36.5	1.88	61.5	3.12	86.5	4.31
12.0	0.61	37.0	1.90	62.0	3.14	87.0	4.33
12.5	0.64	37.5	1.93	62.5	3.17	87.5	4.36
13.0	0.66	38.0	1.95	63.0	3.19	88.0	4.38
13.5	0.69	38.5	1.98	63.5	3.21	88.5	4.40
14.0	0.72	39.0	2.00	64.0	3.24	89.0	4.43
14.5	0.74	39.5	2.03	64.5	3.26	89.5	4.45
15.0	0.77	40.0	2.05	65.0	3.29	90.0	4.47
15.5	0.79	40.5	2.08	65.5	3.31	90.5	4.50
16.0	0.82	41.0	2.10	66.0	3.34	91.0	4.52
16.5	0.85	41.5	2.13	66.5	3.36	91.5	4.54
17.0	0.87	42.0	2.15	67.0	3.38	92.0	4.57
17.5	0.90	42.5	2.18	67.5	3.41	92.5	4.59
18.0	0.93	43.0	2.20	68.0	3.43	93.0	4.61
18.5	0.95	43.5	2.23	68.5	3.46	93.5	4.63
19.0	0.98	44.0	2.25	69.0	3.48	94.0	4.66
19.5	1.00	44.5	2.28	69.5	3.50	94.5	4.68
20.0	1.03	45.0	2.30	70.0	3.53	95.0	4.70
20.5	1.06	45.5	2.33	70.5	3.55	95.5	4.73
21.0	1.08	46.0	2.35	71.0	3.58	96.0	4.75
21.5	1.11	46.5	2.38	71.5	3.60	96.5	4.77
22.0	1.13	47.0	2.40	72.0	3.62	97.0	4.80
22.5	1.16	47.5	2.43	72.5	3.65	97.5	4.82
23.0	1.18	48.0	2.45	73.0	3.67	98.0	4.84
23.5	1.21	48.5	2.48	73.5	3.70	98.5	4.86
24.0	1.24	49.0	2.50	74.0	3.72	99.0	4.89
24.5	1.26	49.5	2.53	74.5	3.74	99.5	4.91
25.0	1.29	50.0	2.55	75.0	3.77	100.0	4.93

				Temperature, °C											
				- 32.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.96		125.5		6.07		150.5		7.14		175.5		8.17	
101.0		4.98		126.0		6.09		151.0		7.16		176.0		8.19	
101.5		5.00		126.5		6.12		151.5		7.18		176.5		8.21	
102.0		5.02		127.0		6.14		152.0		7.21		177.0		8.23	
102.5		5.05		127.5		6.16		152.5		7.23		177.5		8.25	
103.0		5.07		128.0		6.18		153.0		7.25		178.0		8.27	
103.5		5.09		128.5		6.20		153.5		7.27		178.5		8.29	
104.0		5.11		129.0		6.23		154.0		7.29		179.0		8.31	
104.5		5.14		129.5		6.25		154.5		7.31		179.5		8.33	
105.0		5.16		130.0		6.27		155.0		7.33		180.0		8.35	
105.5		5.18		130.5		6.29		155.5		7.35		180.5		8.37	
106.0		5.21		131.0		6.31		156.0		7.37		181.0		8.39	
106.5		5.23		131.5		6.33		156.5		7.39		181.5		8.41	
107.0		5.25		132.0		6.36		157.0		7.41		182.0		8.43	
107.5		5.27		132.5		6.38		157.5		7.43		182.5		8.45	
108.0		5.30		133.0		6.40		158.0		7.45		183.0		8.47	
108.5		5.32		133.5		6.42		158.5		7.48		183.5		8.49	
109.0		5.34		134.0		6.44		159.0		7.50		184.0		8.50	
109.5		5.36		134.5		6.46		159.5		7.52		184.5		8.52	
110.0		5.39		135.0		6.48		160.0		7.54		185.0		8.54	
110.5		5.41		135.5		6.51		160.5		7.56		185.5		8.56	
111.0		5.43		136.0		6.53		161.0		7.58		186.0		8.58	
111.5		5.45		136.5		6.55		161.5		7.60		186.5		8.60	
112.0		5.48		137.0		6.57		162.0		7.62		187.0		8.62	
112.5		5.50		137.5		6.59		162.5		7.64		187.5		8.64	
113.0		5.52		138.0		6.61		163.0		7.66		188.0		8.66	
113.5		5.54		138.5		6.63		163.5		7.68		188.5		8.68	
114.0		5.56		139.0		6.66		164.0		7.70		189.0		8.70	
114.5		5.59		139.5		6.68		164.5		7.72		189.5		8.72	
115.0		5.61		140.0		6.70		165.0		7.74		190.0		8.74	
115.5		5.63		140.5		6.72		165.5		7.76		190.5		8.76	
116.0		5.65		141.0		6.74		166.0		7.78		191.0		8.78	
116.5		5.68		141.5		6.76		166.5		7.80		191.5		8.80	
117.0		5.70		142.0		6.78		167.0		7.82		192.0		8.82	
117.5		5.72		142.5		6.81		167.5		7.84		192.5		8.84	
118.0		5.74		143.0		6.83		168.0		7.86		193.0		8.86	
118.5		5.76		143.5		6.85		168.5		7.88		193.5		8.88	
119.0		5.79		144.0		6.87		169.0		7.90		194.0		8.90	
119.5		5.81		144.5		6.89		169.5		7.93		194.5		8.92	
120.0		5.83		145.0		6.91		170.0		7.95		195.0		8.93	
120.5		5.85		145.5		6.93		170.5		7.97		195.5		8.95	
121.0		5.87		146.0		6.95		171.0		7.99		196.0		8.97	
121.5		5.90		146.5		6.97		171.5		8.01		196.5		8.99	
122.0		5.92		147.0		7.00		172.0		8.03		197.0		9.01	
122.5		5.94		147.5		7.02		172.5		8.05		197.5		9.03	
123.0		5.96		148.0		7.04		173.0		8.07		198.0		9.05	
123.5		5.98		148.5		7.06		173.5		8.09		198.5		9.07	
124.0		6.01		149.0		7.08		174.0		8.11		199.0		9.09	
124.5		6.03		149.5		7.10		174.5		8.13		199.5		9.11	
125.0		6.05		150.0		7.12		175.0		8.15		200.0		9.13	

Temperature, °F

- 25.6

				Temperature, °C		- 31.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.31	50.5	2.57	75.5	3.78
1.0	0.03	26.0	1.33	51.0	2.59	76.0	3.80
1.5	0.05	26.5	1.36	51.5	2.62	76.5	3.82
2.0	0.08	27.0	1.39	52.0	2.64	77.0	3.85
2.5	0.11	27.5	1.41	52.5	2.67	77.5	3.87
3.0	0.13	28.0	1.44	53.0	2.69	78.0	3.89
3.5	0.16	28.5	1.46	53.5	2.71	78.5	3.92
4.0	0.19	29.0	1.49	54.0	2.74	79.0	3.94
4.5	0.21	29.5	1.51	54.5	2.76	79.5	3.96
5.0	0.24	30.0	1.54	55.0	2.79	80.0	3.99
5.5	0.27	30.5	1.56	55.5	2.81	80.5	4.01
6.0	0.29	31.0	1.59	56.0	2.84	81.0	4.03
6.5	0.32	31.5	1.62	56.5	2.86	81.5	4.06
7.0	0.35	32.0	1.64	57.0	2.89	82.0	4.08
7.5	0.37	32.5	1.67	57.5	2.91	82.5	4.10
8.0	0.40	33.0	1.69	58.0	2.93	83.0	4.13
8.5	0.42	33.5	1.72	58.5	2.96	83.5	4.15
9.0	0.45	34.0	1.74	59.0	2.98	84.0	4.18
9.5	0.48	34.5	1.77	59.5	3.01	84.5	4.20
10.0	0.50	35.0	1.79	60.0	3.03	85.0	4.22
10.5	0.53	35.5	1.82	60.5	3.06	85.5	4.25
11.0	0.56	36.0	1.84	61.0	3.08	86.0	4.27
11.5	0.58	36.5	1.87	61.5	3.10	86.5	4.29
12.0	0.61	37.0	1.89	62.0	3.13	87.0	4.31
12.5	0.63	37.5	1.92	62.5	3.15	87.5	4.34
13.0	0.66	38.0	1.94	63.0	3.18	88.0	4.36
13.5	0.69	38.5	1.97	63.5	3.20	88.5	4.38
14.0	0.71	39.0	1.99	64.0	3.23	89.0	4.41
14.5	0.74	39.5	2.02	64.5	3.25	89.5	4.43
15.0	0.77	40.0	2.04	65.0	3.27	90.0	4.45
15.5	0.79	40.5	2.07	65.5	3.30	90.5	4.48
16.0	0.82	41.0	2.09	66.0	3.32	91.0	4.50
16.5	0.84	41.5	2.12	66.5	3.35	91.5	4.52
17.0	0.87	42.0	2.14	67.0	3.37	92.0	4.55
17.5	0.90	42.5	2.17	67.5	3.39	92.5	4.57
18.0	0.92	43.0	2.19	68.0	3.42	93.0	4.59
18.5	0.95	43.5	2.22	68.5	3.44	93.5	4.62
19.0	0.97	44.0	2.24	69.0	3.47	94.0	4.64
19.5	1.00	44.5	2.27	69.5	3.49	94.5	4.66
20.0	1.02	45.0	2.29	70.0	3.51	95.0	4.68
20.5	1.05	45.5	2.32	70.5	3.54	95.5	4.71
21.0	1.08	46.0	2.34	71.0	3.56	96.0	4.73
21.5	1.10	46.5	2.37	71.5	3.59	96.5	4.75
22.0	1.13	47.0	2.39	72.0	3.61	97.0	4.78
22.5	1.15	47.5	2.42	72.5	3.63	97.5	4.80
23.0	1.18	48.0	2.44	73.0	3.66	98.0	4.82
23.5	1.21	48.5	2.47	73.5	3.68	98.5	4.84
24.0	1.23	49.0	2.49	74.0	3.70	99.0	4.87
24.5	1.26	49.5	2.52	74.5	3.73	99.5	4.89
25.0	1.28	50.0	2.54	75.0	3.75	100.0	4.91

Temperature, °F

- 23.8

				Temperature, °C = 30.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.30		50.5		2.56		75.5		3.76	
1.0		0.03		26.0		1.33		51.0		2.58		76.0		3.78	
1.5		0.05		26.5		1.35		51.5		2.61		76.5		3.81	
2.0		0.08		27.0		1.38		52.0		2.63		77.0		3.83	
2.5		0.11		27.5		1.41		52.5		2.65		77.5		3.85	
3.0		0.13		28.0		1.43		53.0		2.68		78.0		3.88	
3.5		0.16		28.5		1.46		53.5		2.70		78.5		3.90	
4.0		0.19		29.0		1.48		54.0		2.73		79.0		3.92	
4.5		0.21		29.5		1.51		54.5		2.75		79.5		3.95	
5.0		0.24		30.0		1.53		55.0		2.78		80.0		3.97	
5.5		0.26		30.5		1.56		55.5		2.80		80.5		3.99	
6.0		0.29		31.0		1.58		56.0		2.83		81.0		4.02	
6.5		0.32		31.5		1.61		56.5		2.85		81.5		4.04	
7.0		0.34		32.0		1.63		57.0		2.87		82.0		4.06	
7.5		0.37		32.5		1.66		57.5		2.90		82.5		4.09	
8.0		0.40		33.0		1.68		58.0		2.92		83.0		4.11	
8.5		0.42		33.5		1.71		58.5		2.95		83.5		4.13	
9.0		0.45		34.0		1.73		59.0		2.97		84.0		4.16	
9.5		0.47		34.5		1.76		59.5		2.99		84.5		4.18	
10.0		0.50		35.0		1.79		60.0		3.02		85.0		4.20	
10.5		0.53		35.5		1.81		60.5		3.04		85.5		4.23	
11.0		0.55		36.0		1.84		61.0		3.07		86.0		4.25	
11.5		0.58		36.5		1.86		61.5		3.09		86.5		4.27	
12.0		0.61		37.0		1.89		62.0		3.12		87.0		4.30	
12.5		0.63		37.5		1.91		62.5		3.14		87.5		4.32	
13.0		0.66		38.0		1.94		63.0		3.16		88.0		4.34	
13.5		0.68		38.5		1.96		63.5		3.19		88.5		4.37	
14.0		0.71		39.0		1.99		64.0		3.21		89.0		4.39	
14.5		0.74		39.5		2.01		64.5		3.24		89.5		4.41	
15.0		0.76		40.0		2.04		65.0		3.26		90.0		4.44	
15.5		0.79		40.5		2.06		65.5		3.28		90.5		4.46	
16.0		0.81		41.0		2.09		66.0		3.31		91.0		4.48	
16.5		0.84		41.5		2.11		66.5		3.33		91.5		4.50	
17.0		0.87		42.0		2.14		67.0		3.36		92.0		4.53	
17.5		0.89		42.5		2.16		67.5		3.38		92.5		4.55	
18.0		0.92		43.0		2.19		68.0		3.40		93.0		4.57	
18.5		0.94		43.5		2.21		68.5		3.43		93.5		4.60	
19.0		0.97		44.0		2.24		69.0		3.45		94.0		4.62	
19.5		0.99		44.5		2.26		69.5		3.48		94.5		4.64	
20.0		1.02		45.0		2.28		70.0		3.50		95.0		4.66	
20.5		1.05		45.5		2.31		70.5		3.52		95.5		4.69	
21.0		1.07		46.0		2.33		71.0		3.55		96.0		4.71	
21.5		1.10		46.5		2.36		71.5		3.57		96.5		4.73	
22.0		1.12		47.0		2.38		72.0		3.59		97.0		4.76	
22.5		1.15		47.5		2.41		72.5		3.62		97.5		4.78	
23.0		1.18		48.0		2.43		73.0		3.64		98.0		4.80	
23.5		1.20		48.5		2.46		73.5		3.67		98.5		4.82	
24.0		1.23		49.0		2.48		74.0		3.69		99.0		4.85	
24.5		1.25		49.5		2.51		74.5		3.71		99.5		4.87	
25.0		1.28		50.0		2.53		75.0		3.74		100.0		4.89	

Temperature, °F = 22.0

Temperature, °C - 30.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.92	125.5		6.02	150.5		7.08	175.5		8.10
101.0		4.94	126.0		6.04	151.0		7.11	176.0		8.12
101.5		4.96	126.5		6.07	151.5		7.13	176.5		8.14
102.0		4.98	127.0		6.09	152.0		7.15	177.0		8.16
102.5		5.01	127.5		6.11	152.5		7.17	177.5		8.18
103.0		5.03	128.0		6.13	153.0		7.19	178.0		8.20
103.5		5.05	128.5		6.15	153.5		7.21	178.5		8.22
104.0		5.07	129.0		6.17	154.0		7.23	179.0		8.24
104.5		5.10	129.5		6.20	154.5		7.25	179.5		8.26
105.0		5.12	130.0		6.22	155.0		7.27	180.0		8.28
105.5		5.14	130.5		6.24	155.5		7.29	180.5		8.30
106.0		5.16	131.0		6.26	156.0		7.31	181.0		8.32
106.5		5.19	131.5		6.28	156.5		7.33	181.5		8.34
107.0		5.21	132.0		6.30	157.0		7.35	182.0		8.36
107.5		5.23	132.5		6.33	157.5		7.37	182.5		8.38
108.0		5.25	133.0		6.35	158.0		7.39	183.0		8.40
108.5		5.27	133.5		6.37	158.5		7.42	183.5		8.42
109.0		5.30	134.0		6.39	159.0		7.44	184.0		8.44
109.5		5.32	134.5		6.41	159.5		7.46	184.5		8.46
110.0		5.34	135.0		6.43	160.0		7.48	185.0		8.48
110.5		5.36	135.5		6.45	160.5		7.50	185.5		8.50
111.0		5.39	136.0		6.47	161.0		7.52	186.0		8.52
111.5		5.41	136.5		6.50	161.5		7.54	186.5		8.54
112.0		5.43	137.0		6.52	162.0		7.56	187.0		8.55
112.5		5.45	137.5		6.54	162.5		7.58	187.5		8.57
113.0		5.47	138.0		6.56	163.0		7.60	188.0		8.59
113.5		5.50	138.5		6.58	163.5		7.62	188.5		8.61
114.0		5.52	139.0		6.60	164.0		7.64	189.0		8.63
114.5		5.54	139.5		6.62	164.5		7.66	189.5		8.65
115.0		5.56	140.0		6.64	165.0		7.68	190.0		8.67
115.5		5.59	140.5		6.67	165.5		7.70	190.5		8.69
116.0		5.61	141.0		6.69	166.0		7.72	191.0		8.71
116.5		5.63	141.5		6.71	166.5		7.74	191.5		8.73
117.0		5.65	142.0		6.73	167.0		7.76	192.0		8.75
117.5		5.67	142.5		6.75	167.5		7.78	192.5		8.77
118.0		5.70	143.0		6.77	168.0		7.80	193.0		8.79
118.5		5.72	143.5		6.79	168.5		7.82	193.5		8.81
119.0		5.74	144.0		6.81	169.0		7.84	194.0		8.83
119.5		5.76	144.5		6.83	169.5		7.86	194.5		8.85
120.0		5.78	145.0		6.86	170.0		7.88	195.0		8.86
120.5		5.81	145.5		6.88	170.5		7.90	195.5		8.88
121.0		5.83	146.0		6.90	171.0		7.92	196.0		8.90
121.5		5.85	146.5		6.92	171.5		7.94	196.5		8.92
122.0		5.87	147.0		6.94	172.0		7.96	197.0		8.94
122.5		5.89	147.5		6.96	172.5		7.98	197.5		8.96
123.0		5.91	148.0		6.98	173.0		8.00	198.0		8.98
123.5		5.94	148.5		7.00	173.5		8.02	198.5		9.00
124.0		5.96	149.0		7.02	174.0		8.04	199.0		9.02
124.5		5.98	149.5		7.04	174.5		8.06	199.5		9.04
125.0		6.00	150.0		7.06	175.0		8.08	200.0		9.06

Temperature, °F - 22.0

				Temperature, °C				
				- 29.0				
atü	-	kg		atü	-	kg		
0.5	0.00		25.5	1.30	50.5	2.55	75.5	3.74
1.0	0.03		26.0	1.32	51.0	2.57	76.0	3.77
1.5	0.05		26.5	1.35	51.5	2.59	76.5	3.79
2.0	0.08		27.0	1.37	52.0	2.62	77.0	3.81
2.5	0.11		27.5	1.40	52.5	2.64	77.5	3.84
3.0	0.13		28.0	1.42	53.0	2.67	78.0	3.86
3.5	0.16		28.5	1.45	53.5	2.69	78.5	3.88
4.0	0.18		29.0	1.48	54.0	2.72	79.0	3.91
4.5	0.21		29.5	1.50	54.5	2.74	79.5	3.93
5.0	0.24		30.0	1.53	55.0	2.76	80.0	3.95
5.5	0.26		30.5	1.55	55.5	2.79	80.5	3.98
6.0	0.29		31.0	1.58	56.0	2.81	81.0	4.00
6.5	0.32		31.5	1.60	56.5	2.84	81.5	4.02
7.0	0.34		32.0	1.63	57.0	2.86	82.0	4.05
7.5	0.37		32.5	1.65	57.5	2.89	82.5	4.07
8.0	0.39		33.0	1.68	58.0	2.91	83.0	4.09
8.5	0.42		33.5	1.70	58.5	2.93	83.5	4.12
9.0	0.45		34.0	1.73	59.0	2.96	84.0	4.14
9.5	0.47		34.5	1.75	59.5	2.98	84.5	4.16
10.0	0.50		35.0	1.78	60.0	3.01	85.0	4.19
10.5	0.53		35.5	1.80	60.5	3.03	85.5	4.21
11.0	0.55		36.0	1.83	61.0	3.05	86.0	4.23
11.5	0.58		36.5	1.85	61.5	3.08	86.5	4.26
12.0	0.60		37.0	1.88	62.0	3.10	87.0	4.28
12.5	0.63		37.5	1.90	62.5	3.13	87.5	4.30
13.0	0.66		38.0	1.93	63.0	3.15	88.0	4.33
13.5	0.68		38.5	1.95	63.5	3.17	88.5	4.35
14.0	0.71		39.0	1.98	64.0	3.20	89.0	4.37
14.5	0.73		39.5	2.00	64.5	3.22	89.5	4.39
15.0	0.76		40.0	2.03	65.0	3.25	90.0	4.42
15.5	0.78		40.5	2.05	65.5	3.27	90.5	4.44
16.0	0.81		41.0	2.08	66.0	3.29	91.0	4.46
16.5	0.84		41.5	2.10	66.5	3.32	91.5	4.49
17.0	0.86		42.0	2.13	67.0	3.34	92.0	4.51
17.5	0.89		42.5	2.15	67.5	3.37	92.5	4.53
18.0	0.91		43.0	2.18	68.0	3.39	93.0	4.55
18.5	0.94		43.5	2.20	68.5	3.41	93.5	4.58
19.0	0.97		44.0	2.23	69.0	3.44	94.0	4.60
19.5	0.99		44.5	2.25	69.5	3.46	94.5	4.62
20.0	1.02		45.0	2.28	70.0	3.48	95.0	4.65
20.5	1.04		45.5	2.30	70.5	3.51	95.5	4.67
21.0	1.07		46.0	2.32	71.0	3.53	96.0	4.69
21.5	1.09		46.5	2.35	71.5	3.56	96.5	4.71
22.0	1.12		47.0	2.37	72.0	3.58	97.0	4.74
22.5	1.14		47.5	2.40	72.5	3.60	97.5	4.76
23.0	1.17		48.0	2.42	73.0	3.63	98.0	4.78
23.5	1.20		48.5	2.45	73.5	3.65	98.5	4.80
24.0	1.22		49.0	2.47	74.0	3.67	99.0	4.83
24.5	1.25		49.5	2.50	74.5	3.70	99.5	4.85
25.0	1.27		50.0	2.52	75.0	3.72	100.0	4.87

Temperature, °F

- 20.2

Temperature, °C = 29.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.90	125.5		6.00	150.5		7.06	175.5		8.07
101.0		4.92	126.0		6.02	151.0		7.08	176.0		8.09
101.5		4.94	126.5		6.04	151.5		7.10	176.5		8.11
102.0		4.96	127.0		6.06	152.0		7.12	177.0		8.13
102.5		4.99	127.5		6.09	152.5		7.14	177.5		8.15
103.0		5.01	128.0		6.11	153.0		7.16	178.0		8.17
103.5		5.03	128.5		6.13	153.5		7.18	178.5		8.19
104.0		5.05	129.0		6.15	154.0		7.20	179.0		8.21
104.5		5.07	129.5		6.17	154.5		7.22	179.5		8.23
105.0		5.10	130.0		6.19	155.0		7.24	180.0		8.25
105.5		5.12	130.5		6.21	155.5		7.26	180.5		8.27
106.0		5.14	131.0		6.24	156.0		7.28	181.0		8.29
106.5		5.16	131.5		6.26	156.5		7.30	181.5		8.31
107.0		5.19	132.0		6.28	157.0		7.32	182.0		8.33
107.5		5.21	132.5		6.30	157.5		7.34	182.5		8.35
108.0		5.23	133.0		6.32	158.0		7.37	183.0		8.36
108.5		5.25	133.5		6.34	158.5		7.39	183.5		8.38
109.0		5.28	134.0		6.36	159.0		7.41	184.0		8.40
109.5		5.30	134.5		6.38	159.5		7.43	184.5		8.42
110.0		5.32	135.0		6.41	160.0		7.45	185.0		8.44
110.5		5.34	135.5		6.43	160.5		7.47	185.5		8.46
111.0		5.36	136.0		6.45	161.0		7.49	186.0		8.48
111.5		5.39	136.5		6.47	161.5		7.51	186.5		8.50
112.0		5.41	137.0		6.49	162.0		7.53	187.0		8.52
112.5		5.43	137.5		6.51	162.5		7.55	187.5		8.54
113.0		5.45	138.0		6.53	163.0		7.57	188.0		8.56
113.5		5.47	138.5		6.55	163.5		7.59	188.5		8.58
114.0		5.50	139.0		6.58	164.0		7.61	189.0		8.60
114.5		5.52	139.5		6.60	164.5		7.63	189.5		8.62
115.0		5.54	140.0		6.62	165.0		7.65	190.0		8.64
115.5		5.56	140.5		6.64	165.5		7.67	190.5		8.66
116.0		5.58	141.0		6.66	166.0		7.69	191.0		8.68
116.5		5.61	141.5		6.68	166.5		7.71	191.5		8.69
117.0		5.63	142.0		6.70	167.0		7.73	192.0		8.71
117.5		5.65	142.5		6.72	167.5		7.75	192.5		8.73
118.0		5.67	143.0		6.74	168.0		7.77	193.0		8.75
118.5		5.69	143.5		6.76	168.5		7.79	193.5		8.77
119.0		5.72	144.0		6.79	169.0		7.81	194.0		8.79
119.5		5.74	144.5		6.81	169.5		7.83	194.5		8.81
120.0		5.76	145.0		6.83	170.0		7.85	195.0		8.83
120.5		5.78	145.5		6.85	170.5		7.87	195.5		8.85
121.0		5.80	146.0		6.87	171.0		7.89	196.0		8.87
121.5		5.83	146.5		6.89	171.5		7.91	196.5		8.89
122.0		5.85	147.0		6.91	172.0		7.93	197.0		8.91
122.5		5.87	147.5		6.93	172.5		7.95	197.5		8.92
123.0		5.89	148.0		6.95	173.0		7.97	198.0		8.94
123.5		5.91	148.5		6.97	173.5		7.99	198.5		8.96
124.0		5.93	149.0		6.99	174.0		8.01	199.0		8.98
124.5		5.96	149.5		7.02	174.5		8.03	199.5		9.00
125.0		5.98	150.0		7.04	175.0		8.05	200.0		9.02

Temperature, °F = 20.2

				Temperature, °C			
				- 28.0			
atü	-	kg		atü	-	kg	
0.5	0.00			25.5	1.29		
1.0	0.03			26.0	1.32		
1.5	0.05			26.5	1.34		
2.0	0.08			27.0	1.37		
2.5	0.11			27.5	1.39		
3.0	0.13			28.0	1.42		
3.5	0.16			28.5	1.44		
4.0	0.18			29.0	1.47		
4.5	0.21			29.5	1.49		
5.0	0.24			30.0	1.52		
5.5	0.26			30.5	1.54		
6.0	0.29			31.0	1.57		
6.5	0.31			31.5	1.60		
7.0	0.34			32.0	1.62		
7.5	0.37			32.5	1.65		
8.0	0.39			33.0	1.67		
8.5	0.42			33.5	1.70		
9.0	0.45			34.0	1.72		
9.5	0.47			34.5	1.75		
10.0	0.50			35.0	1.77		
10.5	0.52			35.5	1.80		
11.0	0.55			36.0	1.82		
11.5	0.57			36.5	1.85		
12.0	0.60			37.0	1.87		
12.5	0.63			37.5	1.90		
13.0	0.65			38.0	1.92		
13.5	0.68			38.5	1.94		
14.0	0.70			39.0	1.97		
14.5	0.73			39.5	1.99		
15.0	0.76			40.0	2.02		
15.5	0.78			40.5	2.04		
16.0	0.81			41.0	2.07		
16.5	0.83			41.5	2.09		
17.0	0.86			42.0	2.12		
17.5	0.88			42.5	2.14		
18.0	0.91			43.0	2.17		
18.5	0.94			43.5	2.19		
19.0	0.96			44.0	2.22		
19.5	0.99			44.5	2.24		
20.0	1.01			45.0	2.27		
20.5	1.04			45.5	2.29		
21.0	1.06			46.0	2.32		
21.5	1.09			46.5	2.34		
22.0	1.11			47.0	2.36		
22.5	1.14			47.5	2.39		
23.0	1.17			48.0	2.41		
23.5	1.19			48.5	2.44		
24.0	1.22			49.0	2.46		
24.5	1.24			49.5	2.49		
25.0	1.27			50.0	2.51		
				50.5	2.54	75.5	3.73
				51.0	2.56	76.0	3.75
				51.5	2.58	76.5	3.78
				52.0	2.61	77.0	3.80
				52.5	2.63	77.5	3.82
				53.0	2.66	78.0	3.85
				53.5	2.68	78.5	3.87
				54.0	2.71	79.0	3.89
				54.5	2.73	79.5	3.92
				55.0	2.75	80.0	3.94
				55.5	2.78	80.5	3.96
				56.0	2.80	81.0	3.99
				56.5	2.83	81.5	4.01
				57.0	2.85	82.0	4.03
				57.5	2.87	82.5	4.05
				58.0	2.90	83.0	4.08
				58.5	2.92	83.5	4.10
				59.0	2.95	84.0	4.12
				59.5	2.97	84.5	4.15
				60.0	2.99	85.0	4.17
				60.5	3.02	85.5	4.19
				61.0	3.04	86.0	4.22
				61.5	3.07	86.5	4.24
				62.0	3.09	87.0	4.26
				62.5	3.11	87.5	4.29
				63.0	3.14	88.0	4.31
				63.5	3.16	88.5	4.33
				64.0	3.19	89.0	4.35
				64.5	3.21	89.5	4.38
				65.0	3.23	90.0	4.40
				65.5	3.26	90.5	4.42
				66.0	3.28	91.0	4.45
				66.5	3.30	91.5	4.47
				67.0	3.33	92.0	4.49
				67.5	3.35	92.5	4.51
				68.0	3.38	93.0	4.54
				68.5	3.40	93.5	4.56
				69.0	3.42	94.0	4.58
				69.5	3.45	94.5	4.60
				70.0	3.47	95.0	4.63
				70.5	3.49	95.5	4.65
				71.0	3.52	96.0	4.67
				71.5	3.54	96.5	4.69
				72.0	3.56	97.0	4.72
				72.5	3.59	97.5	4.74
				73.0	3.61	98.0	4.76
				73.5	3.64	98.5	4.79
				74.0	3.66	99.0	4.81
				74.5	3.68	99.5	4.83
				75.0	3.71	100.0	4.85

Temperature, °F - 18.4

Temperature, °C - 28.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.88	125.5		5.97	150.5		7.03	175.5		8.04
101.0		4.90	126.0		6.00	151.0		7.05	176.0		8.06
101.5		4.92	126.5		6.02	151.5		7.07	176.5		8.08
102.0		4.94	127.0		6.04	152.0		7.09	177.0		8.10
102.5		4.96	127.5		6.06	152.5		7.11	177.5		8.12
103.0		4.99	128.0		6.08	153.0		7.13	178.0		8.14
103.5		5.01	128.5		6.10	153.5		7.15	178.5		8.16
104.0		5.03	129.0		6.12	154.0		7.17	179.0		8.18
104.5		5.05	129.5		6.15	154.5		7.19	179.5		8.19
105.0		5.08	130.0		6.17	155.0		7.21	180.0		8.21
105.5		5.10	130.5		6.19	155.5		7.23	180.5		8.23
106.0		5.12	131.0		6.21	156.0		7.25	181.0		8.25
106.5		5.14	131.5		6.23	156.5		7.27	181.5		8.27
107.0		5.17	132.0		6.25	157.0		7.29	182.0		8.29
107.5		5.19	132.5		6.27	157.5		7.32	182.5		8.31
108.0		5.21	133.0		6.30	158.0		7.34	183.0		8.33
108.5		5.23	133.5		6.32	158.5		7.36	183.5		8.35
109.0		5.25	134.0		6.34	159.0		7.38	184.0		8.37
109.5		5.28	134.5		6.36	159.5		7.40	184.5		8.39
110.0		5.30	135.0		6.38	160.0		7.42	185.0		8.41
110.5		5.32	135.5		6.40	160.5		7.44	185.5		8.43
111.0		5.34	136.0		6.42	161.0		7.46	186.0		8.45
111.5		5.36	136.5		6.44	161.5		7.48	186.5		8.47
112.0		5.39	137.0		6.46	162.0		7.50	187.0		8.49
112.5		5.41	137.5		6.49	162.5		7.52	187.5		8.51
113.0		5.43	138.0		6.51	163.0		7.54	188.0		8.53
113.5		5.45	138.5		6.53	163.5		7.56	188.5		8.55
114.0		5.47	139.0		6.55	164.0		7.58	189.0		8.56
114.5		5.50	139.5		6.57	164.5		7.60	189.5		8.58
115.0		5.52	140.0		6.59	165.0		7.62	190.0		8.60
115.5		5.54	140.5		6.61	165.5		7.64	190.5		8.62
116.0		5.56	141.0		6.63	166.0		7.66	191.0		8.64
116.5		5.58	141.5		6.65	166.5		7.68	191.5		8.66
117.0		5.61	142.0		6.68	167.0		7.70	192.0		8.68
117.5		5.63	142.5		6.70	167.5		7.72	192.5		8.70
118.0		5.65	143.0		6.72	168.0		7.74	193.0		8.72
118.5		5.67	143.5		6.74	168.5		7.76	193.5		8.74
119.0		5.69	144.0		6.76	169.0		7.78	194.0		8.76
119.5		5.71	144.5		6.78	169.5		7.80	194.5		8.78
120.0		5.74	145.0		6.80	170.0		7.82	195.0		8.79
120.5		5.76	145.5		6.82	170.5		7.84	195.5		8.81
121.0		5.78	146.0		6.84	171.0		7.86	196.0		8.83
121.5		5.80	146.5		6.86	171.5		7.88	196.5		8.85
122.0		5.82	147.0		6.88	172.0		7.90	197.0		8.87
122.5		5.85	147.5		6.90	172.5		7.92	197.5		8.89
123.0		5.87	148.0		6.92	173.0		7.94	198.0		8.91
123.5		5.89	148.5		6.95	173.5		7.96	198.5		8.93
124.0		5.91	149.0		6.97	174.0		7.98	199.0		8.95
124.5		5.93	149.5		6.99	174.5		8.00	199.5		8.97
125.0		5.95	150.0		7.01	175.0		8.02	200.0		8.98

Temperature, °F - 18.4

				Temperature, °C											
				- 27.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.29		50.5		2.52		75.5		3.71	
1.0		0.03		26.0		1.31		51.0		2.55		76.0		3.74	
1.5		0.05		26.5		1.34		51.5		2.57		76.5		3.76	
2.0		0.08		27.0		1.36		52.0		2.60		77.0		3.78	
2.5		0.10		27.5		1.39		52.5		2.62		77.5		3.81	
3.0		0.13		28.0		1.41		53.0		2.65		78.0		3.83	
3.5		0.16		28.5		1.44		53.5		2.67		78.5		3.85	
4.0		0.18		29.0		1.46		54.0		2.69		79.0		3.88	
4.5		0.21		29.5		1.49		54.5		2.72		79.5		3.90	
5.0		0.24		30.0		1.51		55.0		2.74		80.0		3.92	
5.5		0.26		30.5		1.54		55.5		2.77		80.5		3.95	
6.0		0.29		31.0		1.56		56.0		2.79		81.0		3.97	
6.5		0.31		31.5		1.59		56.5		2.81		81.5		3.99	
7.0		0.34		32.0		1.61		57.0		2.84		82.0		4.02	
7.5		0.37		32.5		1.64		57.5		2.86		82.5		4.04	
8.0		0.39		33.0		1.66		58.0		2.89		83.0		4.06	
8.5		0.42		33.5		1.69		58.5		2.91		83.5		4.08	
9.0		0.44		34.0		1.71		59.0		2.93		84.0		4.11	
9.5		0.47		34.5		1.74		59.5		2.96		84.5		4.13	
10.0		0.49		35.0		1.76		60.0		2.98		85.0		4.15	
10.5		0.52		35.5		1.79		60.5		3.01		85.5		4.18	
11.0		0.55		36.0		1.81		61.0		3.03		86.0		4.20	
11.5		0.57		36.5		1.84		61.5		3.05		86.5		4.22	
12.0		0.60		37.0		1.86		62.0		3.08		87.0		4.24	
12.5		0.62		37.5		1.89		62.5		3.10		87.5		4.27	
13.0		0.65		38.0		1.91		63.0		3.13		88.0		4.29	
13.5		0.68		38.5		1.94		63.5		3.15		88.5		4.31	
14.0		0.70		39.0		1.96		64.0		3.17		89.0		4.34	
14.5		0.73		39.5		1.99		64.5		3.20		89.5		4.36	
15.0		0.75		40.0		2.01		65.0		3.22		90.0		4.38	
15.5		0.78		40.5		2.04		65.5		3.24		90.5		4.40	
16.0		0.80		41.0		2.06		66.0		3.27		91.0		4.43	
16.5		0.83		41.5		2.08		66.5		3.29		91.5		4.45	
17.0		0.86		42.0		2.11		67.0		3.31		92.0		4.47	
17.5		0.88		42.5		2.13		67.5		3.34		92.5		4.50	
18.0		0.91		43.0		2.16		68.0		3.36		93.0		4.52	
18.5		0.93		43.5		2.18		68.5		3.39		93.5		4.54	
19.0		0.96		44.0		2.21		69.0		3.41		94.0		4.56	
19.5		0.98		44.5		2.23		69.5		3.43		94.5		4.59	
20.0		1.01		45.0		2.26		70.0		3.46		95.0		4.61	
20.5		1.03		45.5		2.28		70.5		3.48		95.5		4.63	
21.0		1.06		46.0		2.31		71.0		3.50		96.0		4.65	
21.5		1.08		46.5		2.33		71.5		3.53		96.5		4.68	
22.0		1.11		47.0		2.35		72.0		3.55		97.0		4.70	
22.5		1.14		47.5		2.38		72.5		3.57		97.5		4.72	
23.0		1.16		48.0		2.40		73.0		3.60		98.0		4.74	
23.5		1.19		48.5		2.43		73.5		3.62		98.5		4.77	
24.0		1.21		49.0		2.45		74.0		3.64		99.0		4.79	
24.5		1.24		49.5		2.48		74.5		3.67		99.5		4.81	
25.0		1.26		50.0		2.50		75.0		3.69		100.0		4.83	

Temperature, °F

- 16.6

Temperature, °C - 27.0								
atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.86	125.5		5.95	150.5		7.00
101.0		4.88	126.0		5.97	151.0		7.02
101.5		4.90	126.5		5.99	151.5		7.04
102.0		4.92	127.0		6.01	152.0		7.06
102.5		4.94	127.5		6.04	152.5		7.08
103.0		4.97	128.0		6.06	153.0		7.10
103.5		4.99	128.5		6.08	153.5		7.12
104.0		5.01	129.0		6.10	154.0		7.14
104.5		5.03	129.5		6.12	154.5		7.16
105.0		5.06	130.0		6.14	155.0		7.18
105.5		5.08	130.5		6.16	155.5		7.20
106.0		5.10	131.0		6.19	156.0		7.23
106.5		5.12	131.5		6.21	156.5		7.25
107.0		5.14	132.0		6.23	157.0		7.27
107.5		5.17	132.5		6.25	157.5		7.29
108.0		5.19	133.0		6.27	158.0		7.31
108.5		5.21	133.5		6.29	158.5		7.33
109.0		5.23	134.0		6.31	159.0		7.35
109.5		5.26	134.5		6.33	159.5		7.37
110.0		5.28	135.0		6.35	160.0		7.39
110.5		5.30	135.5		6.38	160.5		7.41
111.0		5.32	136.0		6.40	161.0		7.43
111.5		5.34	136.5		6.42	161.5		7.45
112.0		5.36	137.0		6.44	162.0		7.47
112.5		5.39	137.5		6.46	162.5		7.49
113.0		5.41	138.0		6.48	163.0		7.51
113.5		5.43	138.5		6.50	163.5		7.53
114.0		5.45	139.0		6.52	164.0		7.55
114.5		5.47	139.5		6.54	164.5		7.57
115.0		5.50	140.0		6.56	165.0		7.59
115.5		5.52	140.5		6.59	165.5		7.61
116.0		5.54	141.0		6.61	166.0		7.63
116.5		5.56	141.5		6.63	166.5		7.65
117.0		5.58	142.0		6.65	167.0		7.67
117.5		5.61	142.5		6.67	167.5		7.69
118.0		5.63	143.0		6.69	168.0		7.71
118.5		5.65	143.5		6.71	168.5		7.73
119.0		5.67	144.0		6.73	169.0		7.75
119.5		5.69	144.5		6.75	169.5		7.77
120.0		5.71	145.0		6.77	170.0		7.79
120.5		5.74	145.5		6.79	170.5		7.81
121.0		5.76	146.0		6.81	171.0		7.83
121.5		5.78	146.5		6.84	171.5		7.85
122.0		5.80	147.0		6.86	172.0		7.87
122.5		5.82	147.5		6.88	172.5		7.89
123.0		5.84	148.0		6.90	173.0		7.91
123.5		5.86	148.5		6.92	173.5		7.93
124.0		5.89	149.0		6.94	174.0		7.95
124.5		5.91	149.5		6.96	174.5		7.97
125.0		5.93	150.0		6.98	175.0		7.99
								175.5 8.01
								176.0 8.03
								176.5 8.05
								177.0 8.06
								177.5 8.08
								178.0 8.10
								178.5 8.12
								179.0 8.14
								179.5 8.16
								180.0 8.18
								180.5 8.20
								181.0 8.22
								181.5 8.24
								182.0 8.26
								182.5 8.28
								183.0 8.30
								183.5 8.32
								184.0 8.34
								184.5 8.36
								185.0 8.38
								185.5 8.40
								186.0 8.42
								186.5 8.43
								187.0 8.45
								187.5 8.47
								188.0 8.49
								188.5 8.51
								189.0 8.53
								189.5 8.55
								190.0 8.57
								190.5 8.59
								191.0 8.61
								191.5 8.63
								192.0 8.65
								192.5 8.66
								193.0 8.68
								193.5 8.70
								194.0 8.72
								194.5 8.74
								195.0 8.76
								195.5 8.78
								196.0 8.80
								196.5 8.82
								197.0 8.84
								197.5 8.86
								198.0 8.87
								198.5 8.89
								199.0 8.91
								199.5 8.93
								200.0 8.95

PRESSURE VERSUS LIFT

atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.28	50.5	2.51	75.5	3.70
1.0	0.03	26.0	1.31	51.0	2.54	76.0	3.72
1.5	0.05	26.5	1.33	51.5	2.56	76.5	3.75
2.0	0.08	27.0	1.36	52.0	2.59	77.0	3.77
2.5	0.10	27.5	1.38	52.5	2.61	77.5	3.79
3.0	0.13	28.0	1.41	53.0	2.64	78.0	3.81
3.5	0.16	28.5	1.43	53.5	2.66	78.5	3.84
4.0	0.18	29.0	1.46	54.0	2.68	79.0	3.86
4.5	0.21	29.5	1.48	54.5	2.71	79.5	3.88
5.0	0.23	30.0	1.51	55.0	2.73	80.0	3.91
5.5	0.26	30.5	1.53	55.5	2.76	80.5	3.93
6.0	0.29	31.0	1.56	56.0	2.78	81.0	3.95
6.5	0.31	31.5	1.58	56.5	2.80	81.5	3.98
7.0	0.34	32.0	1.61	57.0	2.83	82.0	4.00
7.5	0.36	32.5	1.63	57.5	2.85	82.5	4.02
8.0	0.39	33.0	1.66	58.0	2.87	83.0	4.04
8.5	0.42	33.5	1.68	58.5	2.90	83.5	4.07
9.0	0.44	34.0	1.71	59.0	2.92	84.0	4.09
9.5	0.47	34.5	1.73	59.5	2.95	84.5	4.11
10.0	0.49	35.0	1.76	60.0	2.97	85.0	4.14
10.5	0.52	35.5	1.78	60.5	2.99	85.5	4.16
11.0	0.54	36.0	1.81	61.0	3.02	86.0	4.18
11.5	0.57	36.5	1.83	61.5	3.04	86.5	4.20
12.0	0.60	37.0	1.85	62.0	3.07	87.0	4.23
12.5	0.62	37.5	1.88	62.5	3.09	87.5	4.25
13.0	0.65	38.0	1.90	63.0	3.11	88.0	4.27
13.5	0.67	38.5	1.93	63.5	3.14	88.5	4.30
14.0	0.70	39.0	1.95	64.0	3.16	89.0	4.32
14.5	0.72	39.5	1.98	64.5	3.18	89.5	4.34
15.0	0.75	40.0	2.00	65.0	3.21	90.0	4.36
15.5	0.78	40.5	2.03	65.5	3.23	90.5	4.39
16.0	0.80	41.0	2.05	66.0	3.25	91.0	4.41
16.5	0.83	41.5	2.08	66.5	3.28	91.5	4.43
17.0	0.85	42.0	2.10	67.0	3.30	92.0	4.45
17.5	0.88	42.5	2.13	67.5	3.33	92.5	4.48
18.0	0.90	43.0	2.15	68.0	3.35	93.0	4.50
18.5	0.93	43.5	2.17	68.5	3.37	93.5	4.52
19.0	0.95	44.0	2.20	69.0	3.40	94.0	4.54
19.5	0.98	44.5	2.22	69.5	3.42	94.5	4.57
20.0	1.00	45.0	2.25	70.0	3.44	95.0	4.59
20.5	1.03	45.5	2.27	70.5	3.47	95.5	4.61
21.0	1.05	46.0	2.30	71.0	3.49	96.0	4.63
21.5	1.08	46.5	2.32	71.5	3.51	96.5	4.66
22.0	1.11	47.0	2.34	72.0	3.54	97.0	4.68
22.5	1.13	47.5	2.37	72.5	3.56	97.5	4.70
23.0	1.16	48.0	2.39	73.0	3.58	98.0	4.72
23.5	1.18	48.5	2.42	73.5	3.61	98.5	4.75
24.0	1.21	49.0	2.44	74.0	3.63	99.0	4.77
24.5	1.23	49.5	2.47	74.5	3.65	99.5	4.79
25.0	1.26	50.0	2.49	75.0	3.68	100.0	4.81

Temperature, °F

- 14.8

PRESSURE TEMPERATURE

Temperature, °C - 26.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.84	125.5		5.93	150.5		6.97	175.5		7.97
101.0		4.86	126.0		5.95	151.0		6.99	176.0		7.99
101.5		4.88	126.5		5.97	151.5		7.01	176.5		8.01
102.0		4.90	127.0		5.99	152.0		7.03	177.0		8.03
102.5		4.92	127.5		6.01	152.5		7.05	177.5		8.05
103.0		4.95	128.0		6.03	153.0		7.07	178.0		8.07
103.5		4.97	128.5		6.05	153.5		7.10	178.5		8.09
104.0		4.99	129.0		6.08	154.0		7.12	179.0		8.11
104.5		5.01	129.5		6.10	154.5		7.14	179.5		8.13
105.0		5.04	130.0		6.12	155.0		7.16	180.0		8.15
105.5		5.06	130.5		6.14	155.5		7.18	180.5		8.17
106.0		5.08	131.0		6.16	156.0		7.20	181.0		8.19
106.5		5.10	131.5		6.18	156.5		7.22	181.5		8.21
107.0		5.12	132.0		6.20	157.0		7.24	182.0		8.23
107.5		5.15	132.5		6.22	157.5		7.26	182.5		8.25
108.0		5.17	133.0		6.25	158.0		7.28	183.0		8.27
108.5		5.19	133.5		6.27	158.5		7.30	183.5		8.29
109.0		5.21	134.0		6.29	159.0		7.32	184.0		8.31
109.5		5.23	134.5		6.31	159.5		7.34	184.5		8.32
110.0		5.26	135.0		6.33	160.0		7.36	185.0		8.34
110.5		5.28	135.5		6.35	160.5		7.38	185.5		8.36
111.0		5.30	136.0		6.37	161.0		7.40	186.0		8.38
111.5		5.32	136.5		6.39	161.5		7.42	186.5		8.40
112.0		5.34	137.0		6.41	162.0		7.44	187.0		8.42
112.5		5.37	137.5		6.43	162.5		7.46	187.5		8.44
113.0		5.39	138.0		6.46	163.0		7.48	188.0		8.46
113.5		5.41	138.5		6.48	163.5		7.50	188.5		8.48
114.0		5.43	139.0		6.50	164.0		7.52	189.0		8.50
114.5		5.45	139.5		6.52	164.5		7.54	189.5		8.52
115.0		5.47	140.0		6.54	165.0		7.56	190.0		8.54
115.5		5.50	140.5		6.56	165.5		7.58	190.5		8.55
116.0		5.52	141.0		6.58	166.0		7.60	191.0		8.57
116.5		5.54	141.5		6.60	166.5		7.62	191.5		8.59
117.0		5.56	142.0		6.62	167.0		7.64	192.0		8.61
117.5		5.58	142.5		6.64	167.5		7.66	192.5		8.63
118.0		5.60	143.0		6.66	168.0		7.68	193.0		8.65
118.5		5.63	143.5		6.68	168.5		7.70	193.5		8.67
119.0		5.65	144.0		6.70	169.0		7.72	194.0		8.69
119.5		5.67	144.5		6.73	169.5		7.74	194.5		8.71
120.0		5.69	145.0		6.75	170.0		7.76	195.0		8.73
120.5		5.71	145.5		6.77	170.5		7.78	195.5		8.74
121.0		5.73	146.0		6.79	171.0		7.80	196.0		8.76
121.5		5.76	146.5		6.81	171.5		7.82	196.5		8.78
122.0		5.78	147.0		6.83	172.0		7.84	197.0		8.80
122.5		5.80	147.5		6.85	172.5		7.86	197.5		8.82
123.0		5.82	148.0		6.87	173.0		7.88	198.0		8.84
123.5		5.84	148.5		6.89	173.5		7.90	198.5		8.86
124.0		5.86	149.0		6.91	174.0		7.92	199.0		8.88
124.5		5.88	149.5		6.93	174.5		7.94	199.5		8.90
125.0		5.91	150.0		6.95	175.0		7.95	200.0		8.91

Temperature, °F - 14.8

				Temperature, °C											
				- 25.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.28		50.5		2.50		75.5		3.68	
1.0		0.03		26.0		1.30		51.0		2.53		76.0		3.71	
1.5		0.05		26.5		1.33		51.5		2.55		76.5		3.73	
2.0		0.08		27.0		1.35		52.0		2.58		77.0		3.75	
2.5		0.10		27.5		1.38		52.5		2.60		77.5		3.78	
3.0		0.13		28.0		1.40		53.0		2.62		78.0		3.80	
3.5		0.16		28.5		1.43		53.5		2.65		78.5		3.82	
4.0		0.18		29.0		1.45		54.0		2.67		79.0		3.85	
4.5		0.21		29.5		1.48		54.5		2.70		79.5		3.87	
5.0		0.23		30.0		1.50		55.0		2.72		80.0		3.89	
5.5		0.26		30.5		1.53		55.5		2.74		80.5		3.91	
6.0		0.29		31.0		1.55		56.0		2.77		81.0		3.94	
6.5		0.31		31.5		1.58		56.5		2.79		81.5		3.96	
7.0		0.34		32.0		1.60		57.0		2.82		82.0		3.98	
7.5		0.36		32.5		1.63		57.5		2.84		82.5		4.01	
8.0		0.39		33.0		1.65		58.0		2.86		83.0		4.03	
8.5		0.41		33.5		1.67		58.5		2.89		83.5		4.05	
9.0		0.44		34.0		1.70		59.0		2.91		84.0		4.07	
9.5		0.47		34.5		1.72		59.5		2.93		84.5		4.10	
10.0		0.49		35.0		1.75		60.0		2.96		85.0		4.12	
10.5		0.52		35.5		1.77		60.5		2.98		85.5		4.14	
11.0		0.54		36.0		1.80		61.0		3.01		86.0		4.17	
11.5		0.57		36.5		1.82		61.5		3.03		86.5		4.19	
12.0		0.59		37.0		1.85		62.0		3.05		87.0		4.21	
12.5		0.62		37.5		1.87		62.5		3.08		87.5		4.23	
13.0		0.64		38.0		1.90		63.0		3.10		88.0		4.26	
13.5		0.67		38.5		1.92		63.5		3.12		88.5		4.28	
14.0		0.70		39.0		1.95		64.0		3.15		89.0		4.30	
14.5		0.72		39.5		1.97		64.5		3.17		89.5		4.32	
15.0		0.75		40.0		1.99		65.0		3.19		90.0		4.35	
15.5		0.77		40.5		2.02		65.5		3.22		90.5		4.37	
16.0		0.80		41.0		2.04		66.0		3.24		91.0		4.39	
16.5		0.82		41.5		2.07		66.5		3.26		91.5		4.41	
17.0		0.85		42.0		2.09		67.0		3.29		92.0		4.44	
17.5		0.87		42.5		2.12		67.5		3.31		92.5		4.46	
18.0		0.90		43.0		2.14		68.0		3.34		93.0		4.48	
18.5		0.92		43.5		2.17		68.5		3.36		93.5		4.50	
19.0		0.95		44.0		2.19		69.0		3.38		94.0		4.53	
19.5		0.97		44.5		2.21		69.5		3.41		94.5		4.55	
20.0		1.00		45.0		2.24		70.0		3.43		95.0		4.57	
20.5		1.03		45.5		2.26		70.5		3.45		95.5		4.59	
21.0		1.05		46.0		2.29		71.0		3.48		96.0		4.62	
21.5		1.08		46.5		2.31		71.5		3.50		96.5		4.64	
22.0		1.10		47.0		2.34		72.0		3.52		97.0		4.66	
22.5		1.13		47.5		2.36		72.5		3.54		97.5		4.68	
23.0		1.15		48.0		2.38		73.0		3.57		98.0		4.71	
23.5		1.18		48.5		2.41		73.5		3.59		98.5		4.73	
24.0		1.20		49.0		2.43		74.0		3.61		99.0		4.75	
24.5		1.23		49.5		2.46		74.5		3.64		99.5		4.77	
25.0		1.25		50.0		2.48		75.0		3.66		100.0		4.79	

Temperature, °F

- 13.0

Temperature, °C - 25.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.82	125.5		5.90	150.5		6.94	175.5		7.94
101.0		4.84	126.0		5.92	151.0		6.97	176.0		7.96
101.5		4.86	126.5		5.95	151.5		6.99	176.5		7.98
102.0		4.88	127.0		5.97	152.0		7.01	177.0		8.00
102.5		4.91	127.5		5.99	152.5		7.03	177.5		8.02
103.0		4.93	128.0		6.01	153.0		7.05	178.0		8.04
103.5		4.95	128.5		6.03	153.5		7.07	178.5		8.06
104.0		4.97	129.0		6.05	154.0		7.09	179.0		8.08
104.5		4.99	129.5		6.07	154.5		7.11	179.5		8.10
105.0		5.02	130.0		6.09	155.0		7.13	180.0		8.12
105.5		5.04	130.5		6.12	155.5		7.15	180.5		8.14
106.0		5.06	131.0		6.14	156.0		7.17	181.0		8.16
106.5		5.08	131.5		6.16	156.5		7.19	181.5		8.18
107.0		5.10	132.0		6.18	157.0		7.21	182.0		8.20
107.5		5.13	132.5		6.20	157.5		7.23	182.5		8.21
108.0		5.15	133.0		6.22	158.0		7.25	183.0		8.23
108.5		5.17	133.5		6.24	158.5		7.27	183.5		8.25
109.0		5.19	134.0		6.26	159.0		7.29	184.0		8.27
109.5		5.21	134.5		6.28	159.5		7.31	184.5		8.29
110.0		5.23	135.0		6.30	160.0		7.33	185.0		8.31
110.5		5.26	135.5		6.33	160.5		7.35	185.5		8.33
111.0		5.28	136.0		6.35	161.0		7.37	186.0		8.35
111.5		5.30	136.5		6.37	161.5		7.39	186.5		8.37
112.0		5.32	137.0		6.39	162.0		7.41	187.0		8.39
112.5		5.34	137.5		6.41	162.5		7.43	187.5		8.41
113.0		5.37	138.0		6.43	163.0		7.45	188.0		8.43
113.5		5.39	138.5		6.45	163.5		7.47	188.5		8.45
114.0		5.41	139.0		6.47	164.0		7.49	189.0		8.46
114.5		5.43	139.5		6.49	164.5		7.51	189.5		8.48
115.0		5.45	140.0		6.51	165.0		7.53	190.0		8.50
115.5		5.47	140.5		6.53	165.5		7.55	190.5		8.52
116.0		5.50	141.0		6.55	166.0		7.57	191.0		8.54
116.5		5.52	141.5		6.57	166.5		7.59	191.5		8.56
117.0		5.54	142.0		6.60	167.0		7.61	192.0		8.58
117.5		5.56	142.5		6.62	167.5		7.63	192.5		8.60
118.0		5.58	143.0		6.64	168.0		7.65	193.0		8.62
118.5		5.60	143.5		6.66	168.5		7.67	193.5		8.64
119.0		5.62	144.0		6.68	169.0		7.69	194.0		8.65
119.5		5.65	144.5		6.70	169.5		7.71	194.5		8.67
120.0		5.67	145.0		6.72	170.0		7.73	195.0		8.69
120.5		5.69	145.5		6.74	170.5		7.75	195.5		8.71
121.0		5.71	146.0		6.76	171.0		7.77	196.0		8.73
121.5		5.73	146.5		6.78	171.5		7.79	196.5		8.75
122.0		5.75	147.0		6.80	172.0		7.81	197.0		8.77
122.5		5.78	147.5		6.82	172.5		7.83	197.5		8.79
123.0		5.80	148.0		6.84	173.0		7.85	198.0		8.81
123.5		5.82	148.5		6.86	173.5		7.86	198.5		8.82
124.0		5.84	149.0		6.88	174.0		7.88	199.0		8.84
124.5		5.86	149.5		6.90	174.5		7.90	199.5		8.86
125.0		5.88	150.0		6.92	175.0		7.92	200.0		8.88

Temperature, °F - 13.0

Temperature, °C - 24.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
0.5		0.00	25.5		1.27	50.5		2.49	75.5		3.67
1.0		0.03	26.0		1.30	51.0		2.52	76.0		3.69
1.5		0.05	26.5		1.32	51.5		2.54	76.5		3.72
2.0		0.08	27.0		1.35	52.0		2.57	77.0		3.74
2.5		0.10	27.5		1.37	52.5		2.59	77.5		3.76
3.0		0.13	28.0		1.40	53.0		2.61	78.0		3.78
3.5		0.16	28.5		1.42	53.5		2.64	78.5		3.81
4.0		0.18	29.0		1.45	54.0		2.66	79.0		3.83
4.5		0.21	29.5		1.47	54.5		2.69	79.5		3.85
5.0		0.23	30.0		1.50	55.0		2.71	80.0		3.88
5.5		0.26	30.5		1.52	55.5		2.73	80.5		3.90
6.0		0.28	31.0		1.54	56.0		2.76	81.0		3.92
6.5		0.31	31.5		1.57	56.5		2.78	81.5		3.94
7.0		0.34	32.0		1.59	57.0		2.80	82.0		3.97
7.5		0.36	32.5		1.62	57.5		2.83	82.5		3.99
8.0		0.39	33.0		1.64	58.0		2.85	83.0		4.01
8.5		0.41	33.5		1.67	58.5		2.88	83.5		4.04
9.0		0.44	34.0		1.69	59.0		2.90	84.0		4.06
9.5		0.46	34.5		1.72	59.5		2.92	84.5		4.08
10.0		0.49	35.0		1.74	60.0		2.95	85.0		4.10
10.5		0.51	35.5		1.77	60.5		2.97	85.5		4.13
11.0		0.54	36.0		1.79	61.0		2.99	86.0		4.15
11.5		0.57	36.5		1.82	61.5		3.02	86.5		4.17
12.0		0.59	37.0		1.84	62.0		3.04	87.0		4.19
12.5		0.62	37.5		1.86	62.5		3.06	87.5		4.22
13.0		0.64	38.0		1.89	63.0		3.09	88.0		4.24
13.5		0.67	38.5		1.91	63.5		3.11	88.5		4.26
14.0		0.69	39.0		1.94	64.0		3.13	89.0		4.28
14.5		0.72	39.5		1.96	64.5		3.16	89.5		4.31
15.0		0.74	40.0		1.99	65.0		3.18	90.0		4.33
15.5		0.77	40.5		2.01	65.5		3.20	90.5		4.35
16.0		0.79	41.0		2.04	66.0		3.23	91.0		4.37
16.5		0.82	41.5		2.06	66.5		3.25	91.5		4.40
17.0		0.84	42.0		2.08	67.0		3.27	92.0		4.42
17.5		0.87	42.5		2.11	67.5		3.30	92.5		4.44
18.0		0.90	43.0		2.13	68.0		3.32	93.0		4.46
18.5		0.92	43.5		2.16	68.5		3.34	93.5		4.49
19.0		0.95	44.0		2.18	69.0		3.37	94.0		4.51
19.5		0.97	44.5		2.21	69.5		3.39	94.5		4.53
20.0		1.00	45.0		2.23	70.0		3.41	95.0		4.55
20.5		1.02	45.5		2.25	70.5		3.44	95.5		4.58
21.0		1.05	46.0		2.28	71.0		3.46	96.0		4.60
21.5		1.07	46.5		2.30	71.5		3.48	96.5		4.62
22.0		1.10	47.0		2.33	72.0		3.51	97.0		4.64
22.5		1.12	47.5		2.35	72.5		3.53	97.5		4.66
23.0		1.15	48.0		2.37	73.0		3.55	98.0		4.69
23.5		1.17	48.5		2.40	73.5		3.58	98.5		4.71
24.0		1.20	49.0		2.42	74.0		3.60	99.0		4.73
24.5		1.22	49.5		2.45	74.5		3.62	99.5		4.75
25.0		1.25	50.0		2.47	75.0		3.65	100.0		4.78

Temperature, °F - 11.2

- 24.0

Temperature, °C

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.80	125.5		5.88	150.5		6.92	175.5		7.91
101.0		4.82	126.0		5.90	151.0		6.94	176.0		7.93
101.5		4.84	126.5		5.92	151.5		6.96	176.5		7.95
102.0		4.86	127.0		5.94	152.0		6.98	177.0		7.97
102.5		4.89	127.5		5.96	152.5		7.00	177.5		7.99
103.0		4.91	128.0		5.99	153.0		7.02	178.0		8.01
103.5		4.93	128.5		6.01	153.5		7.04	178.5		8.03
104.0		4.95	129.0		6.03	154.0		7.06	179.0		8.05
104.5		4.97	129.5		6.05	154.5		7.08	179.5		8.07
105.0		5.00	130.0		6.07	155.0		7.10	180.0		8.09
105.5		5.02	130.5		6.09	155.5		7.12	180.5		8.11
106.0		5.04	131.0		6.11	156.0		7.14	181.0		8.13
106.5		5.06	131.5		6.13	156.5		7.16	181.5		8.14
107.0		5.08	132.0		6.15	157.0		7.18	182.0		8.16
107.5		5.10	132.5		6.17	157.5		7.20	182.5		8.18
108.0		5.13	133.0		6.20	158.0		7.22	183.0		8.20
108.5		5.15	133.5		6.22	158.5		7.24	183.5		8.22
109.0		5.17	134.0		6.24	159.0		7.26	184.0		8.24
109.5		5.19	134.5		6.26	159.5		7.28	184.5		8.26
110.0		5.21	135.0		6.28	160.0		7.30	185.0		8.28
110.5		5.24	135.5		6.30	160.5		7.32	185.5		8.30
111.0		5.26	136.0		6.32	161.0		7.34	186.0		8.32
111.5		5.28	136.5		6.34	161.5		7.36	186.5		8.34
112.0		5.30	137.0		6.36	162.0		7.38	187.0		8.36
112.5		5.32	137.5		6.38	162.5		7.40	187.5		8.37
113.0		5.34	138.0		6.40	163.0		7.42	188.0		8.39
113.5		5.37	138.5		6.42	163.5		7.44	188.5		8.41
114.0		5.39	139.0		6.45	164.0		7.46	189.0		8.43
114.5		5.41	139.5		6.47	164.5		7.48	189.5		8.45
115.0		5.43	140.0		6.49	165.0		7.50	190.0		8.47
115.5		5.45	140.5		6.51	165.5		7.52	190.5		8.49
116.0		5.47	141.0		6.53	166.0		7.54	191.0		8.51
116.5		5.50	141.5		6.55	166.5		7.56	191.5		8.53
117.0		5.52	142.0		6.57	167.0		7.58	192.0		8.55
117.5		5.54	142.5		6.59	167.5		7.60	192.5		8.56
118.0		5.56	143.0		6.61	168.0		7.62	193.0		8.58
118.5		5.58	143.5		6.63	168.5		7.64	193.5		8.60
119.0		5.60	144.0		6.65	169.0		7.66	194.0		8.62
119.5		5.62	144.5		6.67	169.5		7.68	194.5		8.64
120.0		5.65	145.0		6.69	170.0		7.70	195.0		8.66
120.5		5.67	145.5		6.71	170.5		7.72	195.5		8.68
121.0		5.69	146.0		6.73	171.0		7.74	196.0		8.70
121.5		5.71	146.5		6.75	171.5		7.76	196.5		8.71
122.0		5.73	147.0		6.77	172.0		7.78	197.0		8.73
122.5		5.75	147.5		6.80	172.5		7.79	197.5		8.75
123.0		5.77	148.0		6.82	173.0		7.81	198.0		8.77
123.5		5.79	148.5		6.84	173.5		7.83	198.5		8.79
124.0		5.82	149.0		6.86	174.0		7.85	199.0		8.81
124.5		5.84	149.5		6.88	174.5		7.87	199.5		8.83
125.0		5.86	150.0		6.90	175.0		7.89	200.0		8.85

Temperature, °F

- 11.2

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.27	50.5	2.48	75.5	3.65
1.0	0.03	26.0	1.29	51.0	2.51	76.0	3.68
1.5	0.05	26.5	1.32	51.5	2.53	76.5	3.70
2.0	0.08	27.0	1.34	52.0	2.56	77.0	3.72
2.5	0.10	27.5	1.37	52.5	2.58	77.5	3.75
3.0	0.13	28.0	1.39	53.0	2.60	78.0	3.77
3.5	0.15	28.5	1.42	53.5	2.63	78.5	3.79
4.0	0.18	29.0	1.44	54.0	2.65	79.0	3.81
4.5	0.21	29.5	1.46	54.5	2.67	79.5	3.84
5.0	0.23	30.0	1.49	55.0	2.70	80.0	3.86
5.5	0.26	30.5	1.51	55.5	2.72	80.5	3.88
6.0	0.28	31.0	1.54	56.0	2.75	81.0	3.91
6.5	0.31	31.5	1.56	56.5	2.77	81.5	3.93
7.0	0.33	32.0	1.59	57.0	2.79	82.0	3.95
7.5	0.36	32.5	1.61	57.5	2.82	82.5	3.97
8.0	0.39	33.0	1.64	58.0	2.84	83.0	4.00
8.5	0.41	33.5	1.66	58.5	2.86	83.5	4.02
9.0	0.44	34.0	1.69	59.0	2.89	84.0	4.04
9.5	0.46	34.5	1.71	59.5	2.91	84.5	4.06
10.0	0.49	35.0	1.73	60.0	2.93	85.0	4.09
10.5	0.51	35.5	1.76	60.5	2.96	85.5	4.11
11.0	0.54	36.0	1.78	61.0	2.98	86.0	4.13
11.5	0.56	36.5	1.81	61.5	3.00	86.5	4.15
12.0	0.59	37.0	1.83	62.0	3.03	87.0	4.18
12.5	0.61	37.5	1.86	62.5	3.05	87.5	4.20
13.0	0.64	38.0	1.88	63.0	3.08	88.0	4.22
13.5	0.66	38.5	1.91	63.5	3.10	88.5	4.24
14.0	0.69	39.0	1.93	64.0	3.12	89.0	4.27
14.5	0.72	39.5	1.95	64.5	3.15	89.5	4.29
15.0	0.74	40.0	1.98	65.0	3.17	90.0	4.31
15.5	0.77	40.5	2.00	65.5	3.19	90.5	4.33
16.0	0.79	41.0	2.03	66.0	3.22	91.0	4.36
16.5	0.82	41.5	2.05	66.5	3.24	91.5	4.38
17.0	0.84	42.0	2.08	67.0	3.26	92.0	4.40
17.5	0.87	42.5	2.10	67.5	3.29	92.5	4.42
18.0	0.89	43.0	2.12	68.0	3.31	93.0	4.45
18.5	0.92	43.5	2.15	68.5	3.33	93.5	4.47
19.0	0.94	44.0	2.17	69.0	3.35	94.0	4.49
19.5	0.97	44.5	2.20	69.5	3.38	94.5	4.51
20.0	0.99	45.0	2.22	70.0	3.40	95.0	4.53
20.5	1.02	45.5	2.24	70.5	3.42	95.5	4.56
21.0	1.04	46.0	2.27	71.0	3.45	96.0	4.58
21.5	1.07	46.5	2.29	71.5	3.47	96.5	4.60
22.0	1.09	47.0	2.32	72.0	3.49	97.0	4.62
22.5	1.12	47.5	2.34	72.5	3.52	97.5	4.65
23.0	1.14	48.0	2.36	73.0	3.54	98.0	4.67
23.5	1.17	48.5	2.39	73.5	3.56	98.5	4.69
24.0	1.19	49.0	2.41	74.0	3.59	99.0	4.71
24.5	1.22	49.5	2.44	74.5	3.61	99.5	4.73
25.0	1.24	50.0	2.46	75.0	3.63	100.0	4.76

PRESSURE PERIOD LIST

Temperature, °C - 23.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.78	125.5		5.86	150.5		6.89	175.5		7.88
101.0		4.80	126.0		5.88	151.0		6.91	176.0		7.90
101.5		4.82	126.5		5.90	151.5		6.93	176.5		7.92
102.0		4.84	127.0		5.92	152.0		6.95	177.0		7.94
102.5		4.87	127.5		5.94	152.5		6.97	177.5		7.96
103.0		4.89	128.0		5.96	153.0		6.99	178.0		7.98
103.5		4.91	128.5		5.98	153.5		7.01	178.5		8.00
104.0		4.93	129.0		6.00	154.0		7.03	179.0		8.02
104.5		4.95	129.5		6.02	154.5		7.05	179.5		8.04
105.0		4.98	130.0		6.05	155.0		7.07	180.0		8.06
105.5		5.00	130.5		6.07	155.5		7.09	180.5		8.07
106.0		5.02	131.0		6.09	156.0		7.11	181.0		8.09
106.5		5.04	131.5		6.11	156.5		7.13	181.5		8.11
107.0		5.06	132.0		6.13	157.0		7.15	182.0		8.13
107.5		5.08	132.5		6.15	157.5		7.17	182.5		8.15
108.0		5.11	133.0		6.17	158.0		7.19	183.0		8.17
108.5		5.13	133.5		6.19	158.5		7.21	183.5		8.19
109.0		5.15	134.0		6.21	159.0		7.23	184.0		8.21
109.5		5.17	134.5		6.23	159.5		7.25	184.5		8.23
110.0		5.19	135.0		6.25	160.0		7.27	185.0		8.25
110.5		5.21	135.5		6.28	160.5		7.29	185.5		8.27
111.0		5.24	136.0		6.30	161.0		7.31	186.0		8.28
111.5		5.26	136.5		6.32	161.5		7.33	186.5		8.30
112.0		5.28	137.0		6.34	162.0		7.35	187.0		8.32
112.5		5.30	137.5		6.36	162.5		7.37	187.5		8.34
113.0		5.32	138.0		6.38	163.0		7.39	188.0		8.36
113.5		5.34	138.5		6.40	163.5		7.41	188.5		8.38
114.0		5.37	139.0		6.42	164.0		7.43	189.0		8.40
114.5		5.39	139.5		6.44	164.5		7.45	189.5		8.42
115.0		5.41	140.0		6.46	165.0		7.47	190.0		8.44
115.5		5.43	140.5		6.48	165.5		7.49	190.5		8.46
116.0		5.45	141.0		6.50	166.0		7.51	191.0		8.47
116.5		5.47	141.5		6.52	166.5		7.53	191.5		8.49
117.0		5.49	142.0		6.54	167.0		7.55	192.0		8.51
117.5		5.52	142.5		6.56	167.5		7.57	192.5		8.53
118.0		5.54	143.0		6.58	168.0		7.59	193.0		8.55
118.5		5.56	143.5		6.61	168.5		7.61	193.5		8.57
119.0		5.58	144.0		6.63	169.0		7.63	194.0		8.59
119.5		5.60	144.5		6.65	169.5		7.65	194.5		8.61
120.0		5.62	145.0		6.67	170.0		7.67	195.0		8.62
120.5		5.64	145.5		6.69	170.5		7.69	195.5		8.64
121.0		5.67	146.0		6.71	171.0		7.71	196.0		8.66
121.5		5.69	146.5		6.73	171.5		7.73	196.5		8.68
122.0		5.71	147.0		6.75	172.0		7.75	197.0		8.70
122.5		5.73	147.5		6.77	172.5		7.76	197.5		8.72
123.0		5.75	148.0		6.79	173.0		7.78	198.0		8.74
123.5		5.77	148.5		6.81	173.5		7.80	198.5		8.76
124.0		5.79	149.0		6.83	174.0		7.82	199.0		8.77
124.5		5.81	149.5		6.85	174.5		7.84	199.5		8.79
125.0		5.84	150.0		6.87	175.0		7.86	200.0		8.81

Temperature, °F - 9.4

22.0

Temperature, °C							
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.26	50.5	2.47	75.5	3.64
1.0	0.03	26.0	1.29	51.0	2.50	76.0	3.66
1.5	0.05	26.5	1.31	51.5	2.52	76.5	3.69
2.0	0.08	27.0	1.34	52.0	2.55	77.0	3.71
2.5	0.10	27.5	1.36	52.5	2.57	77.5	3.73
3.0	0.13	28.0	1.38	53.0	2.59	78.0	3.75
3.5	0.15	28.5	1.41	53.5	2.62	78.5	3.78
4.0	0.18	29.0	1.43	54.0	2.64	79.0	3.80
4.5	0.21	29.5	1.46	54.5	2.66	79.5	3.82
5.0	0.23	30.0	1.48	55.0	2.69	80.0	3.84
5.5	0.26	30.5	1.51	55.5	2.71	80.5	3.87
6.0	0.28	31.0	1.53	56.0	2.73	81.0	3.89
6.5	0.31	31.5	1.56	56.5	2.76	81.5	3.91
7.0	0.33	32.0	1.58	57.0	2.78	82.0	3.94
7.5	0.36	32.5	1.61	57.5	2.81	82.5	3.96
8.0	0.38	33.0	1.63	58.0	2.83	83.0	3.98
8.5	0.41	33.5	1.65	58.5	2.85	83.5	4.00
9.0	0.43	34.0	1.68	59.0	2.88	84.0	4.03
9.5	0.46	34.5	1.70	59.5	2.90	84.5	4.05
10.0	0.49	35.0	1.73	60.0	2.92	85.0	4.07
10.5	0.51	35.5	1.75	60.5	2.95	85.5	4.09
11.0	0.54	36.0	1.78	61.0	2.97	86.0	4.12
11.5	0.56	36.5	1.80	61.5	2.99	86.5	4.14
12.0	0.59	37.0	1.83	62.0	3.02	87.0	4.16
12.5	0.61	37.5	1.85	62.5	3.04	87.5	4.18
13.0	0.64	38.0	1.87	63.0	3.06	88.0	4.21
13.5	0.66	38.5	1.90	63.5	3.09	88.5	4.23
14.0	0.69	39.0	1.92	64.0	3.11	89.0	4.25
14.5	0.71	39.5	1.95	64.5	3.13	89.5	4.27
15.0	0.74	40.0	1.97	65.0	3.16	90.0	4.29
15.5	0.76	40.5	1.99	65.5	3.18	90.5	4.32
16.0	0.79	41.0	2.02	66.0	3.20	91.0	4.34
16.5	0.81	41.5	2.04	66.5	3.23	91.5	4.36
17.0	0.84	42.0	2.07	67.0	3.25	92.0	4.38
17.5	0.86	42.5	2.09	67.5	3.27	92.5	4.41
18.0	0.89	43.0	2.12	68.0	3.30	93.0	4.43
18.5	0.91	43.5	2.14	68.5	3.32	93.5	4.45
19.0	0.94	44.0	2.16	69.0	3.34	94.0	4.47
19.5	0.96	44.5	2.19	69.5	3.36	94.5	4.49
20.0	0.99	45.0	2.21	70.0	3.39	95.0	4.52
20.5	1.01	45.5	2.24	70.5	3.41	95.5	4.54
21.0	1.04	46.0	2.26	71.0	3.43	96.0	4.56
21.5	1.06	46.5	2.28	71.5	3.46	96.5	4.58
22.0	1.09	47.0	2.31	72.0	3.48	97.0	4.61
22.5	1.11	47.5	2.33	72.5	3.50	97.5	4.63
23.0	1.14	48.0	2.36	73.0	3.53	98.0	4.65
23.5	1.16	48.5	2.38	73.5	3.55	98.5	4.67
24.0	1.19	49.0	2.40	74.0	3.57	99.0	4.69
24.5	1.21	49.5	2.43	74.5	3.59	99.5	4.72
25.0	1.24	50.0	2.45	75.0	3.62	100.0	4.74

Temperature, °F

7.6

Temperature, °C - 22.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.76	125.5		5.83	150.5		6.86	175.5		7.85
101.0		4.78	126.0		5.85	151.0		6.88	176.0		7.87
101.5		4.80	126.5		5.88	151.5		6.90	176.5		7.89
102.0		4.82	127.0		5.90	152.0		6.92	177.0		7.91
102.5		4.85	127.5		5.92	152.5		6.94	177.5		7.93
103.0		4.87	128.0		5.94	153.0		6.96	178.0		7.95
103.5		4.89	128.5		5.96	153.5		6.98	178.5		7.97
104.0		4.91	129.0		5.98	154.0		7.00	179.0		7.99
104.5		4.93	129.5		6.00	154.5		7.02	179.5		8.00
105.0		4.96	130.0		6.02	155.0		7.04	180.0		8.02
105.5		4.98	130.5		6.04	155.5		7.06	180.5		8.04
106.0		5.00	131.0		6.06	156.0		7.08	181.0		8.06
106.5		5.02	131.5		6.08	156.5		7.10	181.5		8.08
107.0		5.04	132.0		6.11	157.0		7.12	182.0		8.10
107.5		5.06	132.5		6.13	157.5		7.14	182.5		8.12
108.0		5.09	133.0		6.15	158.0		7.16	183.0		8.14
108.5		5.11	133.5		6.17	158.5		7.18	183.5		8.16
109.0		5.13	134.0		6.19	159.0		7.20	184.0		8.18
109.5		5.15	134.5		6.21	159.5		7.22	184.5		8.20
110.0		5.17	135.0		6.23	160.0		7.24	185.0		8.21
110.5		5.19	135.5		6.25	160.5		7.26	185.5		8.23
111.0		5.22	136.0		6.27	161.0		7.28	186.0		8.25
111.5		5.24	136.5		6.29	161.5		7.30	186.5		8.27
112.0		5.26	137.0		6.31	162.0		7.32	187.0		8.29
112.5		5.28	137.5		6.33	162.5		7.34	187.5		8.31
113.0		5.30	138.0		6.35	163.0		7.36	188.0		8.33
113.5		5.32	138.5		6.37	163.5		7.38	188.5		8.35
114.0		5.34	139.0		6.39	164.0		7.40	189.0		8.37
114.5		5.37	139.5		6.42	164.5		7.42	189.5		8.39
115.0		5.39	140.0		6.44	165.0		7.44	190.0		8.40
115.5		5.41	140.5		6.46	165.5		7.46	190.5		8.42
116.0		5.43	141.0		6.48	166.0		7.48	191.0		8.44
116.5		5.45	141.5		6.50	166.5		7.50	191.5		8.46
117.0		5.47	142.0		6.52	167.0		7.52	192.0		8.48
117.5		5.49	142.5		6.54	167.5		7.54	192.5		8.50
118.0		5.52	143.0		6.56	168.0		7.56	193.0		8.52
118.5		5.54	143.5		6.58	168.5		7.58	193.5		8.54
119.0		5.56	144.0		6.60	169.0		7.60	194.0		8.55
119.5		5.58	144.5		6.62	169.5		7.62	194.5		8.57
120.0		5.60	145.0		6.64	170.0		7.64	195.0		8.59
120.5		5.62	145.5		6.66	170.5		7.66	195.5		8.61
121.0		5.64	146.0		6.68	171.0		7.68	196.0		8.63
121.5		5.66	146.5		6.70	171.5		7.70	196.5		8.65
122.0		5.69	147.0		6.72	172.0		7.71	197.0		8.67
122.5		5.71	147.5		6.74	172.5		7.73	197.5		8.68
123.0		5.73	148.0		6.76	173.0		7.75	198.0		8.70
123.5		5.75	148.5		6.78	173.5		7.77	198.5		8.72
124.0		5.77	149.0		6.80	174.0		7.79	199.0		8.74
124.5		5.79	149.5		6.82	174.5		7.81	199.5		8.76
125.0		5.81	150.0		6.84	175.0		7.83	200.0		8.78

Temperature, °F - 7.6

Temperature, °C - 21.0

atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.26	50.5	2.46	75.5	3.63
1.0	0.03	26.0	1.28	51.0	2.49	76.0	3.65
1.5	0.05	26.5	1.31	51.5	2.51	76.5	3.67
2.0	0.08	27.0	1.33	52.0	2.54	77.0	3.69
2.5	0.10	27.5	1.35	52.5	2.56	77.5	3.72
3.0	0.13	28.0	1.38	53.0	2.58	78.0	3.74
3.5	0.15	28.5	1.40	53.5	2.61	78.5	3.76
4.0	0.18	29.0	1.43	54.0	2.63	79.0	3.78
4.5	0.20	29.5	1.45	54.5	2.65	79.5	3.81
5.0	0.23	30.0	1.48	55.0	2.68	80.0	3.83
5.5	0.26	30.5	1.50	55.5	2.70	80.5	3.85
6.0	0.28	31.0	1.53	56.0	2.72	81.0	3.87
6.5	0.31	31.5	1.55	56.5	2.75	81.5	3.90
7.0	0.33	32.0	1.57	57.0	2.77	82.0	3.92
7.5	0.36	32.5	1.60	57.5	2.79	82.5	3.94
8.0	0.38	33.0	1.62	58.0	2.82	83.0	3.96
8.5	0.41	33.5	1.65	58.5	2.84	83.5	3.99
9.0	0.43	34.0	1.67	59.0	2.86	84.0	4.01
9.5	0.46	34.5	1.70	59.5	2.89	84.5	4.03
10.0	0.48	35.0	1.72	60.0	2.91	85.0	4.05
10.5	0.51	35.5	1.75	60.5	2.93	85.5	4.08
11.0	0.53	36.0	1.77	61.0	2.96	86.0	4.10
11.5	0.56	36.5	1.79	61.5	2.98	86.5	4.12
12.0	0.58	37.0	1.82	62.0	3.00	87.0	4.14
12.5	0.61	37.5	1.84	62.5	3.03	87.5	4.17
13.0	0.63	38.0	1.87	63.0	3.05	88.0	4.19
13.5	0.66	38.5	1.89	63.5	3.07	88.5	4.21
14.0	0.68	39.0	1.91	64.0	3.10	89.0	4.23
14.5	0.71	39.5	1.94	64.5	3.12	89.5	4.26
15.0	0.73	40.0	1.96	65.0	3.14	90.0	4.28
15.5	0.76	40.5	1.99	65.5	3.17	90.5	4.30
16.0	0.78	41.0	2.01	66.0	3.19	91.0	4.32
16.5	0.81	41.5	2.03	66.5	3.21	91.5	4.34
17.0	0.83	42.0	2.06	67.0	3.24	92.0	4.37
17.5	0.86	42.5	2.08	67.5	3.26	92.5	4.39
18.0	0.88	43.0	2.11	68.0	3.28	93.0	4.41
18.5	0.91	43.5	2.13	68.5	3.30	93.5	4.43
19.0	0.93	44.0	2.15	69.0	3.33	94.0	4.45
19.5	0.96	44.5	2.18	69.5	3.35	94.5	4.48
20.0	0.98	45.0	2.20	70.0	3.37	95.0	4.50
20.5	1.01	45.5	2.23	70.5	3.40	95.5	4.52
21.0	1.03	46.0	2.25	71.0	3.42	96.0	4.54
21.5	1.06	46.5	2.27	71.5	3.44	96.5	4.56
22.0	1.08	47.0	2.30	72.0	3.47	97.0	4.59
22.5	1.11	47.5	2.32	72.5	3.49	97.5	4.61
23.0	1.13	48.0	2.35	73.0	3.51	98.0	4.63
23.5	1.16	48.5	2.37	73.5	3.53	98.5	4.65
24.0	1.18	49.0	2.39	74.0	3.56	99.0	4.67
24.5	1.21	49.5	2.42	74.5	3.58	99.5	4.70
25.0	1.23	50.0	2.44	75.0	3.60	100.0	4.72

Temperature, °C - 21.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.74	125.5		5.81	150.5		6.84	175.5		7.82
101.0		4.76	126.0		5.83	151.0		6.86	176.0		7.84
101.5		4.78	126.5		5.85	151.5		6.88	176.5		7.86
102.0		4.81	127.0		5.87	152.0		6.90	177.0		7.88
102.5		4.83	127.5		5.89	152.5		6.92	177.5		7.90
103.0		4.85	128.0		5.91	153.0		6.94	178.0		7.92
103.5		4.87	128.5		5.94	153.5		6.96	178.5		7.94
104.0		4.89	129.0		5.96	154.0		6.98	179.0		7.95
104.5		4.91	129.5		5.98	154.5		7.00	179.5		7.97
105.0		4.94	130.0		6.00	155.0		7.02	180.0		7.99
105.5		4.96	130.5		6.02	155.5		7.04	180.5		8.01
106.0		4.98	131.0		6.04	156.0		7.06	181.0		8.03
106.5		5.00	131.5		6.06	156.5		7.08	181.5		8.05
107.0		5.02	132.0		6.08	157.0		7.10	182.0		8.07
107.5		5.04	132.5		6.10	157.5		7.12	182.5		8.09
108.0		5.07	133.0		6.12	158.0		7.14	183.0		8.11
108.5		5.09	133.5		6.14	158.5		7.16	183.5		8.13
109.0		5.11	134.0		6.16	159.0		7.18	184.0		8.15
109.5		5.13	134.5		6.18	159.5		7.20	184.5		8.16
110.0		5.15	135.0		6.21	160.0		7.22	185.0		8.18
110.5		5.17	135.5		6.23	160.5		7.24	185.5		8.20
111.0		5.20	136.0		6.25	161.0		7.25	186.0		8.22
111.5		5.22	136.5		6.27	161.5		7.27	186.5		8.24
112.0		5.24	137.0		6.29	162.0		7.29	187.0		8.26
112.5		5.26	137.5		6.31	162.5		7.31	187.5		8.28
113.0		5.28	138.0		6.33	163.0		7.33	188.0		8.30
113.5		5.30	138.5		6.35	163.5		7.35	188.5		8.32
114.0		5.32	139.0		6.37	164.0		7.37	189.0		8.33
114.5		5.34	139.5		6.39	164.5		7.39	189.5		8.35
115.0		5.37	140.0		6.41	165.0		7.41	190.0		8.37
115.5		5.39	140.5		6.43	165.5		7.43	190.5		8.39
116.0		5.41	141.0		6.45	166.0		7.45	191.0		8.41
116.5		5.43	141.5		6.47	166.5		7.47	191.5		8.43
117.0		5.45	142.0		6.49	167.0		7.49	192.0		8.45
117.5		5.47	142.5		6.51	167.5		7.51	192.5		8.47
118.0		5.49	143.0		6.53	168.0		7.53	193.0		8.48
118.5		5.52	143.5		6.55	168.5		7.55	193.5		8.50
119.0		5.54	144.0		6.57	169.0		7.57	194.0		8.52
119.5		5.56	144.5		6.59	169.5		7.59	194.5		8.54
120.0		5.58	145.0		6.61	170.0		7.61	195.0		8.56
120.5		5.60	145.5		6.63	170.5		7.63	195.5		8.58
121.0		5.62	146.0		6.66	171.0		7.65	196.0		8.60
121.5		5.64	146.5		6.68	171.5		7.67	196.5		8.61
122.0		5.66	147.0		6.70	172.0		7.69	197.0		8.63
122.5		5.68	147.5		6.72	172.5		7.70	197.5		8.65
123.0		5.71	148.0		6.74	173.0		7.72	198.0		8.67
123.5		5.73	148.5		6.76	173.5		7.74	198.5		8.69
124.0		5.75	149.0		6.78	174.0		7.76	199.0		8.71
124.5		5.77	149.5		6.80	174.5		7.78	199.5		8.73
125.0		5.79	150.0		6.82	175.0		7.80	200.0		8.74

Temperature, °F - 5.8

- 20.0

Temperature, °C			
atü	- kg	atü	- kg
0.5	0.00	25.5	1.25
1.0	0.03	26.0	1.28
1.5	0.05	26.5	1.30
2.0	0.08	27.0	1.32
2.5	0.10	27.5	1.35
3.0	0.13	28.0	1.37
3.5	0.15	28.5	1.40
4.0	0.18	29.0	1.42
4.5	0.20	29.5	1.45
5.0	0.23	30.0	1.47
5.5	0.25	30.5	1.50
6.0	0.28	31.0	1.52
6.5	0.30	31.5	1.54
7.0	0.33	32.0	1.57
7.5	0.36	32.5	1.59
8.0	0.38	33.0	1.62
8.5	0.41	33.5	1.64
9.0	0.43	34.0	1.67
9.5	0.46	34.5	1.69
10.0	0.48	35.0	1.71
10.5	0.51	35.5	1.74
11.0	0.53	36.0	1.76
11.5	0.56	36.5	1.79
12.0	0.58	37.0	1.81
12.5	0.61	37.5	1.83
13.0	0.63	38.0	1.86
13.5	0.66	38.5	1.88
14.0	0.68	39.0	1.91
14.5	0.71	39.5	1.93
15.0	0.73	40.0	1.95
15.5	0.76	40.5	1.98
16.0	0.78	41.0	2.00
16.5	0.81	41.5	2.03
17.0	0.83	42.0	2.05
17.5	0.86	42.5	2.07
18.0	0.88	43.0	2.10
18.5	0.91	43.5	2.12
19.0	0.93	44.0	2.15
19.5	0.96	44.5	2.17
20.0	0.98	45.0	2.19
20.5	1.00	45.5	2.22
21.0	1.03	46.0	2.24
21.5	1.05	46.5	2.27
22.0	1.08	47.0	2.29
22.5	1.10	47.5	2.31
23.0	1.13	48.0	2.34
23.5	1.15	48.5	2.36
24.0	1.18	49.0	2.38
24.5	1.20	49.5	2.41
25.0	1.23	50.0	2.43
50.5	2.45	51.0	2.48
51.5	2.50	52.0	2.53
52.5	2.55	53.0	2.57
53.5	2.60	54.0	2.62
54.5	2.64	55.0	2.67
55.5	2.69	56.0	2.71
56.5	2.74	57.0	2.76
57.5	2.78	58.0	2.81
58.5	2.83	59.0	2.85
59.5	2.88	60.0	2.90
60.5	2.92	61.0	2.95
61.5	2.97	62.0	2.99
62.5	3.02	63.0	3.04
63.5	3.06	64.0	3.08
64.5	3.11	65.0	3.13
65.5	3.15	66.0	3.18
66.5	3.20	67.0	3.22
67.5	3.25	68.0	3.27
68.5	3.29	69.0	3.31
69.5	3.34	70.0	3.36
70.5	3.38	71.0	3.41
71.5	3.43	72.0	3.45
72.5	3.47	73.0	3.50
73.5	3.52	74.0	3.54
74.5	3.57	75.0	3.59
75.5	3.61	76.0	3.63
76.5	3.66	77.0	3.68
77.5	3.70	78.0	3.72
78.5	3.75	79.0	3.77
79.5	3.79	80.0	3.81
80.5	3.84	81.0	3.86
81.5	3.88	82.0	3.90
82.5	3.93	83.0	3.95
83.5	3.97	84.0	3.99
84.5	4.02	85.0	4.04
85.5	4.06	86.0	4.08
86.5	4.11	87.0	4.13
87.5	4.15	88.0	4.17
88.5	4.19	89.0	4.22
89.5	4.24	90.0	4.26
90.5	4.28	91.0	4.30
91.5	4.33	92.0	4.35
92.5	4.37	93.0	4.39
93.5	4.42	94.0	4.44
94.5	4.46	95.0	4.48
95.5	4.50	96.0	4.53
96.5	4.55	97.0	4.57
97.5	4.59	98.0	4.61
98.5	4.63	99.0	4.66
99.5	4.68	100.0	4.70

Temperature, °F - 4.0

Temperature, °C - 20.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.72	125.5		5.79	150.5		6.81	175.5		7.79
101.0		4.74	126.0		5.81	151.0		6.83	176.0		7.81
101.5		4.77	126.5		5.83	151.5		6.85	176.5		7.83
102.0		4.79	127.0		5.85	152.0		6.87	177.0		7.85
102.5		4.81	127.5		5.87	152.5		6.89	177.5		7.87
103.0		4.83	128.0		5.89	153.0		6.91	178.0		7.89
103.5		4.85	128.5		5.91	153.5		6.93	178.5		7.90
104.0		4.87	129.0		5.93	154.0		6.95	179.0		7.92
104.5		4.90	129.5		5.95	154.5		6.97	179.5		7.94
105.0		4.92	130.0		5.97	155.0		6.99	180.0		7.96
105.5		4.94	130.5		6.00	155.5		7.01	180.5		7.98
106.0		4.96	131.0		6.02	156.0		7.03	181.0		8.00
106.5		4.98	131.5		6.04	156.5		7.05	181.5		8.02
107.0		5.00	132.0		6.06	157.0		7.07	182.0		8.04
107.5		5.02	132.5		6.08	157.5		7.09	182.5		8.06
108.0		5.05	133.0		6.10	158.0		7.11	183.0		8.08
108.5		5.07	133.5		6.12	158.5		7.13	183.5		8.10
109.0		5.09	134.0		6.14	159.0		7.15	184.0		8.11
109.5		5.11	134.5		6.16	159.5		7.17	184.5		8.13
110.0		5.13	135.0		6.18	160.0		7.19	185.0		8.15
110.5		5.15	135.5		6.20	160.5		7.21	185.5		8.17
111.0		5.17	136.0		6.22	161.0		7.23	186.0		8.19
111.5		5.20	136.5		6.24	161.5		7.25	186.5		8.21
112.0		5.22	137.0		6.26	162.0		7.27	187.0		8.23
112.5		5.24	137.5		6.28	162.5		7.29	187.5		8.25
113.0		5.26	138.0		6.30	163.0		7.31	188.0		8.26
113.5		5.28	138.5		6.32	163.5		7.32	188.5		8.28
114.0		5.30	139.0		6.35	164.0		7.34	189.0		8.30
114.5		5.32	139.5		6.37	164.5		7.36	189.5		8.32
115.0		5.35	140.0		6.39	165.0		7.38	190.0		8.34
115.5		5.37	140.5		6.41	165.5		7.40	190.5		8.36
116.0		5.39	141.0		6.43	166.0		7.42	191.0		8.38
116.5		5.41	141.5		6.45	166.5		7.44	191.5		8.40
117.0		5.43	142.0		6.47	167.0		7.46	192.0		8.41
117.5		5.45	142.5		6.49	167.5		7.48	192.5		8.43
118.0		5.47	143.0		6.51	168.0		7.50	193.0		8.45
118.5		5.49	143.5		6.53	168.5		7.52	193.5		8.47
119.0		5.51	144.0		6.55	169.0		7.54	194.0		8.49
119.5		5.54	144.5		6.57	169.5		7.56	194.5		8.51
120.0		5.56	145.0		6.59	170.0		7.58	195.0		8.53
120.5		5.58	145.5		6.61	170.5		7.60	195.5		8.54
121.0		5.60	146.0		6.63	171.0		7.62	196.0		8.56
121.5		5.62	146.5		6.65	171.5		7.64	196.5		8.58
122.0		5.64	147.0		6.67	172.0		7.66	197.0		8.60
122.5		5.66	147.5		6.69	172.5		7.67	197.5		8.62
123.0		5.68	148.0		6.71	173.0		7.69	198.0		8.64
123.5		5.70	148.5		6.73	173.5		7.71	198.5		8.66
124.0		5.72	149.0		6.75	174.0		7.73	199.0		8.67
124.5		5.75	149.5		6.77	174.5		7.75	199.5		8.69
125.0		5.77	150.0		6.79	175.0		7.77	200.0		8.71

Temperature, °F - 4.0

- 19.0

Temperature, °C									
atū	-	kg	atū	-	kg	atū	-	kg	
0.5	0.00		25.5	1.25		50.5	2.44	75.5	3.60
1.0	0.03		26.0	1.27		51.0	2.47	76.0	3.62
1.5	0.05		26.5	1.30		51.5	2.49	76.5	3.64
2.0	0.08		27.0	1.32		52.0	2.52	77.0	3.66
2.5	0.10		27.5	1.34		52.5	2.54	77.5	3.69
3.0	0.13		28.0	1.37		53.0	2.56	78.0	3.71
3.5	0.15		28.5	1.39		53.5	2.59	78.5	3.73
4.0	0.18		29.0	1.42		54.0	2.61	79.0	3.75
4.5	0.20		29.5	1.44		54.5	2.63	79.5	3.78
5.0	0.23		30.0	1.47		55.0	2.66	80.0	3.80
5.5	0.25		30.5	1.49		55.5	2.68	80.5	3.82
6.0	0.28		31.0	1.51		56.0	2.70	81.0	3.84
6.5	0.30		31.5	1.54		56.5	2.73	81.5	3.87
7.0	0.33		32.0	1.56		57.0	2.75	82.0	3.89
7.5	0.35		32.5	1.59		57.5	2.77	82.5	3.91
8.0	0.38		33.0	1.61		58.0	2.80	83.0	3.93
8.5	0.40		33.5	1.63		58.5	2.82	83.5	3.96
9.0	0.43		34.0	1.66		59.0	2.84	84.0	3.98
9.5	0.45		34.5	1.68		59.5	2.86	84.5	4.00
10.0	0.48		35.0	1.71		60.0	2.89	85.0	4.02
10.5	0.50		35.5	1.73		60.5	2.91	85.5	4.04
11.0	0.53		36.0	1.76		61.0	2.93	86.0	4.07
11.5	0.55		36.5	1.78		61.5	2.96	86.5	4.09
12.0	0.58		37.0	1.80		62.0	2.98	87.0	4.11
12.5	0.60		37.5	1.83		62.5	3.00	87.5	4.13
13.0	0.63		38.0	1.85		63.0	3.03	88.0	4.16
13.5	0.65		38.5	1.88		63.5	3.05	88.5	4.18
14.0	0.68		39.0	1.90		64.0	3.07	89.0	4.20
14.5	0.70		39.5	1.92		64.5	3.10	89.5	4.22
15.0	0.73		40.0	1.95		65.0	3.12	90.0	4.24
15.5	0.75		40.5	1.97		65.5	3.14	90.5	4.27
16.0	0.78		41.0	1.99		66.0	3.16	91.0	4.29
16.5	0.80		41.5	2.02		66.5	3.19	91.5	4.31
17.0	0.83		42.0	2.04		67.0	3.21	92.0	4.33
17.5	0.85		42.5	2.07		67.5	3.23	92.5	4.35
18.0	0.88		43.0	2.09		68.0	3.26	93.0	4.38
18.5	0.90		43.5	2.11		68.5	3.28	93.5	4.40
19.0	0.93		44.0	2.14		69.0	3.30	94.0	4.42
19.5	0.95		44.5	2.16		69.5	3.32	94.5	4.44
20.0	0.98		45.0	2.19		70.0	3.35	95.0	4.46
20.5	1.00		45.5	2.21		70.5	3.37	95.5	4.49
21.0	1.03		46.0	2.23		71.0	3.39	96.0	4.51
21.5	1.05		46.5	2.26		71.5	3.42	96.5	4.53
22.0	1.07		47.0	2.28		72.0	3.44	97.0	4.55
22.5	1.10		47.5	2.30		72.5	3.46	97.5	4.57
23.0	1.12		48.0	2.33		73.0	3.48	98.0	4.59
23.5	1.15		48.5	2.35		73.5	3.51	98.5	4.62
24.0	1.17		49.0	2.37		74.0	3.53	99.0	4.64
24.5	1.20		49.5	2.40		74.5	3.55	99.5	4.66
25.0	1.22		50.0	2.42		75.0	3.57	100.0	4.68

Temperature, °F

- 2.2

Temperature, °C - 19.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.70	125.5		5.76	150.5		6.78	175.5		7.76
101.0		4.72	126.0		5.79	151.0		6.80	176.0		7.78
101.5		4.75	126.5		5.81	151.5		6.82	176.5		7.80
102.0		4.77	127.0		5.83	152.0		6.84	177.0		7.82
102.5		4.79	127.5		5.85	152.5		6.86	177.5		7.84
103.0		4.81	128.0		5.87	153.0		6.88	178.0		7.86
103.5		4.83	128.5		5.89	153.5		6.90	178.5		7.87
104.0		4.85	129.0		5.91	154.0		6.92	179.0		7.89
104.5		4.88	129.5		5.93	154.5		6.94	179.5		7.91
105.0		4.90	130.0		5.95	155.0		6.96	180.0		7.93
105.5		4.92	130.5		5.97	155.5		6.98	180.5		7.95
106.0		4.94	131.0		5.99	156.0		7.00	181.0		7.97
106.5		4.96	131.5		6.01	156.5		7.02	181.5		7.99
107.0		4.98	132.0		6.03	157.0		7.04	182.0		8.01
107.5		5.00	132.5		6.05	157.5		7.06	182.5		8.03
108.0		5.03	133.0		6.08	158.0		7.08	183.0		8.05
108.5		5.05	133.5		6.10	158.5		7.10	183.5		8.06
109.0		5.07	134.0		6.12	159.0		7.12	184.0		8.08
109.5		5.09	134.5		6.14	159.5		7.14	184.5		8.10
110.0		5.11	135.0		6.16	160.0		7.16	185.0		8.12
110.5		5.13	135.5		6.18	160.5		7.18	185.5		8.14
111.0		5.15	136.0		6.20	161.0		7.20	186.0		8.16
111.5		5.18	136.5		6.22	161.5		7.22	186.5		8.18
112.0		5.20	137.0		6.24	162.0		7.24	187.0		8.20
112.5		5.22	137.5		6.26	162.5		7.26	187.5		8.21
113.0		5.24	138.0		6.28	163.0		7.28	188.0		8.23
113.5		5.26	138.5		6.30	163.5		7.30	188.5		8.25
114.0		5.28	139.0		6.32	164.0		7.32	189.0		8.27
114.5		5.30	139.5		6.34	164.5		7.34	189.5		8.29
115.0		5.32	140.0		6.36	165.0		7.36	190.0		8.31
115.5		5.35	140.5		6.38	165.5		7.37	190.5		8.33
116.0		5.37	141.0		6.40	166.0		7.39	191.0		8.35
116.5		5.39	141.5		6.42	166.5		7.41	191.5		8.36
117.0		5.41	142.0		6.44	167.0		7.43	192.0		8.38
117.5		5.43	142.5		6.46	167.5		7.45	192.5		8.40
118.0		5.45	143.0		6.48	168.0		7.47	193.0		8.42
118.5		5.47	143.5		6.50	168.5		7.49	193.5		8.44
119.0		5.49	144.0		6.52	169.0		7.51	194.0		8.46
119.5		5.51	144.5		6.54	169.5		7.53	194.5		8.47
120.0		5.54	145.0		6.56	170.0		7.55	195.0		8.49
120.5		5.56	145.5		6.58	170.5		7.57	195.5		8.51
121.0		5.58	146.0		6.60	171.0		7.59	196.0		8.53
121.5		5.60	146.5		6.62	171.5		7.61	196.5		8.55
122.0		5.62	147.0		6.64	172.0		7.63	197.0		8.57
122.5		5.64	147.5		6.66	172.5		7.65	197.5		8.59
123.0		5.66	148.0		6.68	173.0		7.66	198.0		8.60
123.5		5.68	148.5		6.70	173.5		7.68	198.5		8.62
124.0		5.70	149.0		6.72	174.0		7.70	199.0		8.64
124.5		5.72	149.5		6.74	174.5		7.72	199.5		8.66
125.0		5.74	150.0		6.76	175.0		7.74	200.0		8.68

Temperature, °F - 2.2

Temperature, °C - 18.0									
atü	-	kg	atü	-	kg	atü	-	kg	
100.5	4.68		125.5	5.74		150.5	6.76	175.5	7.73
101.0	4.71		126.0	5.76		151.0	6.78	176.0	7.75
101.5	4.73		126.5	5.78		151.5	6.80	176.5	7.77
102.0	4.75		127.0	5.80		152.0	6.82	177.0	7.79
102.5	4.77		127.5	5.83		152.5	6.84	177.5	7.81
103.0	4.79		128.0	5.85		153.0	6.86	178.0	7.83
103.5	4.81		128.5	5.87		153.5	6.88	178.5	7.84
104.0	4.84		129.0	5.89		154.0	6.90	179.0	7.86
104.5	4.86		129.5	5.91		154.5	6.92	179.5	7.88
105.0	4.88		130.0	5.93		155.0	6.94	180.0	7.90
105.5	4.90		130.5	5.95		155.5	6.96	180.5	7.92
106.0	4.92		131.0	5.97		156.0	6.98	181.0	7.94
106.5	4.94		131.5	5.99		156.5	6.99	181.5	7.96
107.0	4.96		132.0	6.01		157.0	7.01	182.0	7.98
107.5	4.99		132.5	6.03		157.5	7.03	182.5	8.00
108.0	5.01		133.0	6.05		158.0	7.05	183.0	8.01
108.5	5.03		133.5	6.07		158.5	7.07	183.5	8.03
109.0	5.05		134.0	6.09		159.0	7.09	184.0	8.05
109.5	5.07		134.5	6.11		159.5	7.11	184.5	8.07
110.0	5.09		135.0	6.13		160.0	7.13	185.0	8.09
110.5	5.11		135.5	6.15		160.5	7.15	185.5	8.11
111.0	5.13		136.0	6.17		161.0	7.17	186.0	8.13
111.5	5.16		136.5	6.19		161.5	7.19	186.5	8.15
112.0	5.18		137.0	6.21		162.0	7.21	187.0	8.16
112.5	5.20		137.5	6.23		162.5	7.23	187.5	8.18
113.0	5.22		138.0	6.26		163.0	7.25	188.0	8.20
113.5	5.24		138.5	6.28		163.5	7.27	188.5	8.22
114.0	5.26		139.0	6.30		164.0	7.29	189.0	8.24
114.5	5.28		139.5	6.32		164.5	7.31	189.5	8.26
115.0	5.30		140.0	6.34		165.0	7.33	190.0	8.28
115.5	5.32		140.5	6.36		165.5	7.35	190.5	8.29
116.0	5.35		141.0	6.38		166.0	7.37	191.0	8.31
116.5	5.37		141.5	6.40		166.5	7.38	191.5	8.33
117.0	5.39		142.0	6.42		167.0	7.40	192.0	8.35
117.5	5.41		142.5	6.44		167.5	7.42	192.5	8.37
118.0	5.43		143.0	6.46		168.0	7.44	193.0	8.39
118.5	5.45		143.5	6.48		168.5	7.46	193.5	8.41
119.0	5.47		144.0	6.50		169.0	7.48	194.0	8.42
119.5	5.49		144.5	6.52		169.5	7.50	194.5	8.44
120.0	5.51		145.0	6.54		170.0	7.52	195.0	8.46
120.5	5.53		145.5	6.56		170.5	7.54	195.5	8.48
121.0	5.56		146.0	6.58		171.0	7.56	196.0	8.50
121.5	5.58		146.5	6.60		171.5	7.58	196.5	8.52
122.0	5.60		147.0	6.62		172.0	7.60	197.0	8.53
122.5	5.62		147.5	6.64		172.5	7.62	197.5	8.55
123.0	5.64		148.0	6.66		173.0	7.64	198.0	8.57
123.5	5.66		148.5	6.68		173.5	7.65	198.5	8.59
124.0	5.68		149.0	6.70		174.0	7.67	199.0	8.61
124.5	5.70		149.5	6.72		174.5	7.69	199.5	8.63
125.0	5.72		150.0	6.74		175.0	7.71	200.0	8.64

- 17.0

Temperature, °C									
atü	-	kg	atü	-	kg	atü	-	kg	
0.5	0.00		25.5	1.24		50.5	2.43	75.5	3.57
1.0	0.03		26.0	1.26		51.0	2.45	76.0	3.59
1.5	0.05		26.5	1.28		51.5	2.47	76.5	3.61
2.0	0.08		27.0	1.31		52.0	2.50	77.0	3.64
2.5	0.10		27.5	1.33		52.5	2.52	77.5	3.66
3.0	0.13		28.0	1.36		53.0	2.54	78.0	3.68
3.5	0.15		28.5	1.38		53.5	2.57	78.5	3.70
4.0	0.18		29.0	1.41		54.0	2.59	79.0	3.72
4.5	0.20		29.5	1.43		54.5	2.61	79.5	3.75
5.0	0.23		30.0	1.45		55.0	2.63	80.0	3.77
5.5	0.25		30.5	1.48		55.5	2.66	80.5	3.79
6.0	0.28		31.0	1.50		56.0	2.68	81.0	3.81
6.5	0.30		31.5	1.53		56.5	2.70	81.5	3.84
7.0	0.33		32.0	1.55		57.0	2.73	82.0	3.86
7.5	0.35		32.5	1.57		57.5	2.75	82.5	3.88
8.0	0.38		33.0	1.60		58.0	2.77	83.0	3.90
8.5	0.40		33.5	1.62		58.5	2.80	83.5	3.92
9.0	0.43		34.0	1.65		59.0	2.82	84.0	3.95
9.5	0.45		34.5	1.67		59.5	2.84	84.5	3.97
10.0	0.48		35.0	1.69		60.0	2.87	85.0	3.99
10.5	0.50		35.5	1.72		60.5	2.89	85.5	4.01
11.0	0.53		36.0	1.74		61.0	2.91	86.0	4.03
11.5	0.55		36.5	1.77		61.5	2.93	86.5	4.06
12.0	0.57		37.0	1.79		62.0	2.96	87.0	4.08
12.5	0.60		37.5	1.81		62.5	2.98	87.5	4.10
13.0	0.62		38.0	1.84		63.0	3.00	88.0	4.12
13.5	0.65		38.5	1.86		63.5	3.03	88.5	4.14
14.0	0.67		39.0	1.88		64.0	3.05	89.0	4.17
14.5	0.70		39.5	1.91		64.5	3.07	89.5	4.19
15.0	0.72		40.0	1.93		65.0	3.09	90.0	4.21
15.5	0.75		40.5	1.96		65.5	3.12	90.5	4.23
16.0	0.77		41.0	1.98		66.0	3.14	91.0	4.25
16.5	0.80		41.5	2.00		66.5	3.16	91.5	4.28
17.0	0.82		42.0	2.03		67.0	3.18	92.0	4.30
17.5	0.85		42.5	2.05		67.5	3.21	92.5	4.32
18.0	0.87		43.0	2.07		68.0	3.23	93.0	4.34
18.5	0.89		43.5	2.10		68.5	3.25	93.5	4.36
19.0	0.92		44.0	2.12		69.0	3.28	94.0	4.39
19.5	0.94		44.5	2.14		69.5	3.30	94.5	4.41
20.0	0.97		45.0	2.17		70.0	3.32	95.0	4.43
20.5	0.99		45.5	2.19		70.5	3.34	95.5	4.45
21.0	1.02		46.0	2.21		71.0	3.37	96.0	4.47
21.5	1.04		46.5	2.24		71.5	3.39	96.5	4.49
22.0	1.07		47.0	2.26		72.0	3.41	97.0	4.52
22.5	1.09		47.5	2.29		72.5	3.43	97.5	4.54
23.0	1.11		48.0	2.31		73.0	3.46	98.0	4.56
23.5	1.14		48.5	2.33		73.5	3.48	98.5	4.58
24.0	1.16		49.0	2.36		74.0	3.50	99.0	4.60
24.5	1.19		49.5	2.38		74.5	3.52	99.5	4.62
25.0	1.21		50.0	2.40		75.0	3.55	100.0	4.64

Temperature, °F

1.4

				Temperature, °C		- 17.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
100.5	4.67	125.5	5.72	150.5	6.73	175.5	7.70
101.0	4.69	126.0	5.74	151.0	6.75	176.0	7.72
101.5	4.71	126.5	5.76	151.5	6.77	176.5	7.74
102.0	4.73	127.0	5.78	152.0	6.79	177.0	7.76
102.5	4.75	127.5	5.80	152.5	6.81	177.5	7.78
103.0	4.77	128.0	5.82	153.0	6.83	178.0	7.80
103.5	4.80	128.5	5.84	153.5	6.85	178.5	7.81
104.0	4.82	129.0	5.86	154.0	6.87	179.0	7.83
104.5	4.84	129.5	5.88	154.5	6.89	179.5	7.85
105.0	4.86	130.0	5.91	155.0	6.91	180.0	7.87
105.5	4.88	130.5	5.93	155.5	6.93	180.5	7.89
106.0	4.90	131.0	5.95	156.0	6.95	181.0	7.91
106.5	4.92	131.5	5.97	156.5	6.97	181.5	7.93
107.0	4.94	132.0	5.99	157.0	6.99	182.0	7.95
107.5	4.97	132.5	6.01	157.5	7.01	182.5	7.97
108.0	4.99	133.0	6.03	158.0	7.03	183.0	7.98
108.5	5.01	133.5	6.05	158.5	7.05	183.5	8.00
109.0	5.03	134.0	6.07	159.0	7.07	184.0	8.02
109.5	5.05	134.5	6.09	159.5	7.09	184.5	8.04
110.0	5.07	135.0	6.11	160.0	7.10	185.0	8.06
110.5	5.09	135.5	6.13	160.5	7.12	185.5	8.08
111.0	5.11	136.0	6.15	161.0	7.14	186.0	8.10
111.5	5.14	136.5	6.17	161.5	7.16	186.5	8.11
112.0	5.16	137.0	6.19	162.0	7.18	187.0	8.13
112.5	5.18	137.5	6.21	162.5	7.20	187.5	8.15
113.0	5.20	138.0	6.23	163.0	7.22	188.0	8.17
113.5	5.22	138.5	6.25	163.5	7.24	188.5	8.19
114.0	5.24	139.0	6.27	164.0	7.26	189.0	8.21
114.5	5.26	139.5	6.29	164.5	7.28	189.5	8.23
115.0	5.28	140.0	6.31	165.0	7.30	190.0	8.24
115.5	5.30	140.5	6.33	165.5	7.32	190.5	8.26
116.0	5.32	141.0	6.35	166.0	7.34	191.0	8.28
116.5	5.35	141.5	6.37	166.5	7.36	191.5	8.30
117.0	5.37	142.0	6.39	167.0	7.38	192.0	8.32
117.5	5.39	142.5	6.41	167.5	7.40	192.5	8.34
118.0	5.41	143.0	6.43	168.0	7.41	193.0	8.36
118.5	5.43	143.5	6.45	168.5	7.43	193.5	8.37
119.0	5.45	144.0	6.47	169.0	7.45	194.0	8.39
119.5	5.47	144.5	6.49	169.5	7.47	194.5	8.41
120.0	5.49	145.0	6.51	170.0	7.49	195.0	8.43
120.5	5.51	145.5	6.53	170.5	7.51	195.5	8.45
121.0	5.53	146.0	6.55	171.0	7.53	196.0	8.47
121.5	5.55	146.5	6.57	171.5	7.55	196.5	8.48
122.0	5.58	147.0	6.59	172.0	7.57	197.0	8.50
122.5	5.60	147.5	6.61	172.5	7.59	197.5	8.52
123.0	5.62	148.0	6.63	173.0	7.61	198.0	8.54
123.5	5.64	148.5	6.65	173.5	7.62	198.5	8.56
124.0	5.66	149.0	6.67	174.0	7.64	199.0	8.58
124.5	5.68	149.5	6.69	174.5	7.66	199.5	8.59
125.0	5.70	150.0	6.71	175.0	7.68	200.0	8.61

				Temperature, °C = 16.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.23		50.5		2.42		75.5		3.55	
1.0		0.03		26.0		1.26		51.0		2.44		76.0		3.58	
1.5		0.05		26.5		1.28		51.5		2.46		76.5		3.60	
2.0		0.08		27.0		1.30		52.0		2.49		77.0		3.62	
2.5		0.10		27.5		1.33		52.5		2.51		77.5		3.64	
3.0		0.13		28.0		1.35		53.0		2.53		78.0		3.67	
3.5		0.15		28.5		1.38		53.5		2.56		78.5		3.69	
4.0		0.18		29.0		1.40		54.0		2.58		79.0		3.71	
4.5		0.20		29.5		1.42		54.5		2.60		79.5		3.73	
5.0		0.23		30.0		1.45		55.0		2.62		80.0		3.75	
5.5		0.25		30.5		1.47		55.5		2.65		80.5		3.78	
6.0		0.28		31.0		1.50		56.0		2.67		81.0		3.80	
6.5		0.30		31.5		1.52		56.5		2.69		81.5		3.82	
7.0		0.32		32.0		1.54		57.0		2.72		82.0		3.84	
7.5		0.35		32.5		1.57		57.5		2.74		82.5		3.87	
8.0		0.37		33.0		1.59		58.0		2.76		83.0		3.89	
8.5		0.40		33.5		1.62		58.5		2.79		83.5		3.91	
9.0		0.42		34.0		1.64		59.0		2.81		84.0		3.93	
9.5		0.45		34.5		1.66		59.5		2.83		84.5		3.95	
10.0		0.47		35.0		1.69		60.0		2.85		85.0		3.98	
10.5		0.50		35.5		1.71		60.5		2.88		85.5		4.00	
11.0		0.52		36.0		1.73		61.0		2.90		86.0		4.02	
11.5		0.55		36.5		1.76		61.5		2.92		86.5		4.04	
12.0		0.57		37.0		1.78		62.0		2.95		87.0		4.06	
12.5		0.60		37.5		1.81		62.5		2.97		87.5		4.08	
13.0		0.62		38.0		1.83		63.0		2.99		88.0		4.11	
13.5		0.65		38.5		1.85		63.5		3.01		88.5		4.13	
14.0		0.67		39.0		1.88		64.0		3.04		89.0		4.15	
14.5		0.70		39.5		1.90		64.5		3.06		89.5		4.17	
15.0		0.72		40.0		1.92		65.0		3.08		90.0		4.19	
15.5		0.74		40.5		1.95		65.5		3.10		90.5		4.22	
16.0		0.77		41.0		1.97		66.0		3.13		91.0		4.24	
16.5		0.79		41.5		1.99		66.5		3.15		91.5		4.26	
17.0		0.82		42.0		2.02		67.0		3.17		92.0		4.28	
17.5		0.84		42.5		2.04		67.5		3.20		92.5		4.30	
18.0		0.87		43.0		2.07		68.0		3.22		93.0		4.32	
18.5		0.89		43.5		2.09		68.5		3.24		93.5		4.35	
19.0		0.92		44.0		2.11		69.0		3.26		94.0		4.37	
19.5		0.94		44.5		2.14		69.5		3.29		94.5		4.39	
20.0		0.96		45.0		2.16		70.0		3.31		95.0		4.41	
20.5		0.99		45.5		2.18		70.5		3.33		95.5		4.43	
21.0		1.01		46.0		2.21		71.0		3.35		96.0		4.45	
21.5		1.04		46.5		2.23		71.5		3.38		96.5		4.48	
22.0		1.06		47.0		2.25		72.0		3.40		97.0		4.50	
22.5		1.09		47.5		2.28		72.5		3.42		97.5		4.52	
23.0		1.11		48.0		2.30		73.0		3.44		98.0		4.54	
23.5		1.13		48.5		2.32		73.5		3.47		98.5		4.56	
24.0		1.16		49.0		2.35		74.0		3.49		99.0		4.58	
24.5		1.18		49.5		2.37		74.5		3.51		99.5		4.61	
25.0		1.21		50.0		2.39		75.0		3.53		100.0		4.63	

atü - kg		atü - kg		atü - kg		atü - kg	
100.5	4.65	125.5	5.70	150.5	6.71	175.5	7.67
101.0	4.67	126.0	5.72	151.0	6.73	176.0	7.69
101.5	4.69	126.5	5.74	151.5	6.74	176.5	7.71
102.0	4.71	127.0	5.76	152.0	6.76	177.0	7.73
102.5	4.73	127.5	5.78	152.5	6.78	177.5	7.75
103.0	4.76	128.0	5.80	153.0	6.80	178.0	7.77
103.5	4.78	128.5	5.82	153.5	6.82	178.5	7.78
104.0	4.80	129.0	5.84	154.0	6.84	179.0	7.80
104.5	4.82	129.5	5.86	154.5	6.86	179.5	7.82
105.0	4.84	130.0	5.88	155.0	6.88	180.0	7.84
105.5	4.86	130.5	5.90	155.5	6.90	180.5	7.86
106.0	4.88	131.0	5.92	156.0	6.92	181.0	7.88
106.5	4.90	131.5	5.94	156.5	6.94	181.5	7.90
107.0	4.93	132.0	5.96	157.0	6.96	182.0	7.92
107.5	4.95	132.5	5.98	157.5	6.98	182.5	7.93
108.0	4.97	133.0	6.00	158.0	7.00	183.0	7.95
108.5	4.99	133.5	6.03	158.5	7.02	183.5	7.97
109.0	5.01	134.0	6.05	159.0	7.04	184.0	7.99
109.5	5.03	134.5	6.07	159.5	7.06	184.5	8.01
110.0	5.05	135.0	6.09	160.0	7.08	185.0	8.03
110.5	5.07	135.5	6.11	160.5	7.10	185.5	8.05
111.0	5.09	136.0	6.13	161.0	7.12	186.0	8.07
111.5	5.12	136.5	6.15	161.5	7.14	186.5	8.08
112.0	5.14	137.0	6.17	162.0	7.15	187.0	8.10
112.5	5.16	137.5	6.19	162.5	7.17	187.5	8.12
113.0	5.18	138.0	6.21	163.0	7.19	188.0	8.14
113.5	5.20	138.5	6.23	163.5	7.21	188.5	8.16
114.0	5.22	139.0	6.25	164.0	7.23	189.0	8.18
114.5	5.24	139.5	6.27	164.5	7.25	189.5	8.20
115.0	5.26	140.0	6.29	165.0	7.27	190.0	8.21
115.5	5.28	140.5	6.31	165.5	7.29	190.5	8.23
116.0	5.30	141.0	6.33	166.0	7.31	191.0	8.25
116.5	5.33	141.5	6.35	166.5	7.33	191.5	8.27
117.0	5.35	142.0	6.37	167.0	7.35	192.0	8.29
117.5	5.37	142.5	6.39	167.5	7.37	192.5	8.31
118.0	5.39	143.0	6.41	168.0	7.39	193.0	8.32
118.5	5.41	143.5	6.43	168.5	7.41	193.5	8.34
119.0	5.43	144.0	6.45	169.0	7.42	194.0	8.36
119.5	5.45	144.5	6.47	169.5	7.44	194.5	8.38
120.0	5.47	145.0	6.49	170.0	7.46	195.0	8.40
120.5	5.49	145.5	6.51	170.5	7.48	195.5	8.42
121.0	5.51	146.0	6.53	171.0	7.50	196.0	8.43
121.5	5.53	146.5	6.55	171.5	7.52	196.5	8.45
122.0	5.55	147.0	6.57	172.0	7.54	197.0	8.47
122.5	5.57	147.5	6.59	172.5	7.56	197.5	8.49
123.0	5.60	148.0	6.61	173.0	7.58	198.0	8.51
123.5	5.62	148.5	6.63	173.5	7.60	198.5	8.52
124.0	5.64	149.0	6.65	174.0	7.61	199.0	8.54
124.5	5.66	149.5	6.67	174.5	7.63	199.5	8.56
125.0	5.68	150.0	6.69	175.0	7.65	200.0	8.58

Temperature, °F

3.2

				Temperature, °C = 15.0			
atü	-	kg		atü	-	kg	
0.5	0.00			25.5	1.23		
1.0	0.02			26.0	1.25		
1.5	0.05			26.5	1.27		
2.0	0.07			27.0	1.30		
2.5	0.10			27.5	1.32		
3.0	0.12			28.0	1.35		
3.5	0.15			28.5	1.37		
4.0	0.17			29.0	1.39		
4.5	0.20			29.5	1.42		
5.0	0.22			30.0	1.44		
5.5	0.25			30.5	1.47		
6.0	0.27			31.0	1.49		
6.5	0.30			31.5	1.51		
7.0	0.32			32.0	1.54		
7.5	0.35			32.5	1.56		
8.0	0.37			33.0	1.59		
8.5	0.40			33.5	1.61		
9.0	0.42			34.0	1.63		
9.5	0.45			34.5	1.66		
10.0	0.47			35.0	1.68		
10.5	0.50			35.5	1.70		
11.0	0.52			36.0	1.73		
11.5	0.55			36.5	1.75		
12.0	0.57			37.0	1.78		
12.5	0.59			37.5	1.80		
13.0	0.62			38.0	1.82		
13.5	0.64			38.5	1.85		
14.0	0.67			39.0	1.87		
14.5	0.69			39.5	1.89		
15.0	0.72			40.0	1.92		
15.5	0.74			40.5	1.94		
16.0	0.77			41.0	1.96		
16.5	0.79			41.5	1.99		
17.0	0.81			42.0	2.01		
17.5	0.84			42.5	2.03		
18.0	0.86			43.0	2.06		
18.5	0.89			43.5	2.08		
19.0	0.91			44.0	2.10		
19.5	0.94			44.5	2.13		
20.0	0.96			45.0	2.15		
20.5	0.99			45.5	2.17		
21.0	1.01			46.0	2.20		
21.5	1.03			46.5	2.22		
22.0	1.06			47.0	2.24		
22.5	1.08			47.5	2.27		
23.0	1.11			48.0	2.29		
23.5	1.13			48.5	2.31		
24.0	1.15			49.0	2.34		
24.5	1.18			49.5	2.36		
25.0	1.20			50.0	2.38		
				50.5	2.41		
				51.0	2.43		
				51.5	2.45		
				52.0	2.48		
				52.5	2.50		
				53.0	2.52		
				53.5	2.55		
				54.0	2.57		
				54.5	2.59		
				55.0	2.61		
				55.5	2.64		
				56.0	2.66		
				56.5	2.68		
				57.0	2.71		
				57.5	2.73		
				58.0	2.75		
				58.5	2.77		
				59.0	2.80		
				59.5	2.82		
				60.0	2.84		
				60.5	2.87		
				61.0	2.89		
				61.5	2.91		
				62.0	2.93		
				62.5	2.96		
				63.0	2.98		
				63.5	3.00		
				64.0	3.02		
				64.5	3.05		
				65.0	3.07		
				65.5	3.09		
				66.0	3.11		
				66.5	3.14		
				67.0	3.16		
				67.5	3.18		
				68.0	3.21		
				68.5	3.23		
				69.0	3.25		
				69.5	3.27		
				70.0	3.29		
				70.5	3.32		
				71.0	3.34		
				71.5	3.36		
				72.0	3.38		
				72.5	3.41		
				73.0	3.43		
				73.5	3.45		
				74.0	3.47		
				74.5	3.50		
				75.0	3.52		
				75.5	3.54		
				76.0	3.56		
				76.5	3.59		
				77.0	3.61		
				77.5	3.63		
				78.0	3.65		
				78.5	3.67		
				79.0	3.70		
				79.5	3.72		
				80.0	3.74		
				80.5	3.76		
				81.0	3.78		
				81.5	3.81		
				82.0	3.83		
				82.5	3.85		
				83.0	3.87		
				83.5	3.89		
				84.0	3.92		
				84.5	3.94		
				85.0	3.96		
				85.5	3.98		
				86.0	4.00		
				86.5	4.03		
				87.0	4.05		
				87.5	4.07		
				88.0	4.09		
				88.5	4.11		
				89.0	4.13		
				89.5	4.16		
				90.0	4.18		
				90.5	4.20		
				91.0	4.22		
				91.5	4.24		
				92.0	4.26		
				92.5	4.29		
				93.0	4.31		
				93.5	4.33		
				94.0	4.35		
				94.5	4.37		
				95.0	4.39		
				95.5	4.42		
				96.0	4.44		
				96.5	4.46		
				97.0	4.48		
				97.5	4.50		
				98.0	4.52		
				98.5	4.54		
				99.0	4.57		
				99.5	4.59		
				100.0	4.61		

PRESSURE VERSUS ALTITUDE

- 15.0

Temperature, °C			
atü	-	kg	
100.5	4.63	125.5	5.68
101.0	4.65	126.0	5.70
101.5	4.67	126.5	5.72
102.0	4.69	127.0	5.74
102.5	4.72	127.5	5.76
103.0	4.74	128.0	5.78
103.5	4.76	128.5	5.80
104.0	4.78	129.0	5.82
104.5	4.80	129.5	5.84
105.0	4.82	130.0	5.86
105.5	4.84	130.5	5.88
106.0	4.86	131.0	5.90
106.5	4.89	131.5	5.92
107.0	4.91	132.0	5.94
107.5	4.93	132.5	5.96
108.0	4.95	133.0	5.98
108.5	4.97	133.5	6.00
109.0	4.99	134.0	6.02
109.5	5.01	134.5	6.04
110.0	5.03	135.0	6.06
110.5	5.05	135.5	6.08
111.0	5.07	136.0	6.10
111.5	5.10	136.5	6.12
112.0	5.12	137.0	6.14
112.5	5.14	137.5	6.16
113.0	5.16	138.0	6.18
113.5	5.18	138.5	6.20
114.0	5.20	139.0	6.22
114.5	5.22	139.5	6.24
115.0	5.24	140.0	6.26
115.5	5.26	140.5	6.28
116.0	5.28	141.0	6.30
116.5	5.30	141.5	6.32
117.0	5.33	142.0	6.34
117.5	5.35	142.5	6.36
118.0	5.37	143.0	6.38
118.5	5.39	143.5	6.40
119.0	5.41	144.0	6.42
119.5	5.43	144.5	6.44
120.0	5.45	145.0	6.46
120.5	5.47	145.5	6.48
121.0	5.49	146.0	6.50
121.5	5.51	146.5	6.52
122.0	5.53	147.0	6.54
122.5	5.55	147.5	6.56
123.0	5.57	148.0	6.58
123.5	5.59	148.5	6.60
124.0	5.61	149.0	6.62
124.5	5.64	149.5	6.64
125.0	5.66	150.0	6.66
150.5	6.68	150.5	6.68
151.0	6.70	151.0	6.70
151.5	6.72	151.5	6.72
152.0	6.74	152.0	6.74
152.5	6.76	152.5	6.76
153.0	6.78	153.0	6.78
153.5	6.80	153.5	6.80
154.0	6.82	154.0	6.82
154.5	6.84	154.5	6.84
155.0	6.86	155.0	6.86
155.5	6.88	155.5	6.88
156.0	6.90	156.0	6.90
156.5	6.91	156.5	6.91
157.0	6.93	157.0	6.93
157.5	6.95	157.5	6.95
158.0	6.97	158.0	6.97
158.5	6.99	158.5	6.99
159.0	7.01	159.0	7.01
159.5	7.03	159.5	7.03
160.0	7.05	160.0	7.05
160.5	7.07	160.5	7.07
161.0	7.09	161.0	7.09
161.5	7.11	161.5	7.11
162.0	7.13	162.0	7.13
162.5	7.15	162.5	7.15
163.0	7.17	163.0	7.17
163.5	7.19	163.5	7.19
164.0	7.20	164.0	7.20
164.5	7.22	164.5	7.22
165.0	7.24	165.0	7.24
165.5	7.26	165.5	7.26
166.0	7.28	166.0	7.28
166.5	7.30	166.5	7.30
167.0	7.32	167.0	7.32
167.5	7.34	167.5	7.34
168.0	7.36	168.0	7.36
168.5	7.38	168.5	7.38
169.0	7.40	169.0	7.40
169.5	7.42	169.5	7.42
170.0	7.43	170.0	7.43
170.5	7.45	170.5	7.45
171.0	7.47	171.0	7.47
171.5	7.49	171.5	7.49
172.0	7.51	172.0	7.51
172.5	7.53	172.5	7.53
173.0	7.55	173.0	7.55
173.5	7.57	173.5	7.57
174.0	7.59	174.0	7.59
174.5	7.60	174.5	7.60
175.0	7.62	175.0	7.62
175.5	7.64	175.5	7.64
176.0	7.66	176.0	7.66
176.5	7.68	176.5	7.68
177.0	7.70	177.0	7.70
177.5	7.72	177.5	7.72
178.0	7.74	178.0	7.74
178.5	7.76	178.5	7.76
179.0	7.77	179.0	7.77
179.5	7.79	179.5	7.79
180.0	7.81	180.0	7.81
180.5	7.83	180.5	7.83
181.0	7.85	181.0	7.85
181.5	7.87	181.5	7.87
182.0	7.89	182.0	7.89
182.5	7.90	182.5	7.90
183.0	7.92	183.0	7.92
183.5	7.94	183.5	7.94
184.0	7.96	184.0	7.96
184.5	7.98	184.5	7.98
185.0	8.00	185.0	8.00
185.5	8.02	185.5	8.02
186.0	8.03	186.0	8.03
186.5	8.05	186.5	8.05
187.0	8.07	187.0	8.07
187.5	8.09	187.5	8.09
188.0	8.11	188.0	8.11
188.5	8.13	188.5	8.13
189.0	8.15	189.0	8.15
189.5	8.16	189.5	8.16
190.0	8.18	190.0	8.18
190.5	8.20	190.5	8.20
191.0	8.22	191.0	8.22
191.5	8.24	191.5	8.24
192.0	8.26	192.0	8.26
192.5	8.27	192.5	8.27
193.0	8.29	193.0	8.29
193.5	8.31	193.5	8.31
194.0	8.33	194.0	8.33
194.5	8.35	194.5	8.35
195.0	8.37	195.0	8.37
195.5	8.38	195.5	8.38
196.0	8.40	196.0	8.40
196.5	8.42	196.5	8.42
197.0	8.44	197.0	8.44
197.5	8.46	197.5	8.46
198.0	8.47	198.0	8.47
198.5	8.49	198.5	8.49
199.0	8.51	199.0	8.51
199.5	8.53	199.5	8.53
200.0	8.55	200.0	8.55

Temperature, °F

5.0

Temperature, °C - 14.0

atü — kg		atü — kg		atü — kg		atü — kg	
0.5	0.00	25.5	1.22	50.5	2.40	75.5	3.53
1.0	0.02	26.0	1.25	51.0	2.42	76.0	3.55
1.5	0.05	26.5	1.27	51.5	2.44	76.5	3.57
2.0	0.07	27.0	1.29	52.0	2.47	77.0	3.59
2.5	0.10	27.5	1.32	52.5	2.49	77.5	3.62
3.0	0.12	28.0	1.34	53.0	2.51	78.0	3.64
3.5	0.15	28.5	1.37	53.5	2.54	78.5	3.66
4.0	0.17	29.0	1.39	54.0	2.56	79.0	3.68
4.5	0.20	29.5	1.41	54.5	2.58	79.5	3.70
5.0	0.22	30.0	1.44	55.0	2.60	80.0	3.73
5.5	0.25	30.5	1.46	55.5	2.63	80.5	3.75
6.0	0.27	31.0	1.48	56.0	2.65	81.0	3.77
6.5	0.30	31.5	1.51	56.5	2.67	81.5	3.79
7.0	0.32	32.0	1.53	57.0	2.70	82.0	3.81
7.5	0.35	32.5	1.56	57.5	2.72	82.5	3.84
8.0	0.37	33.0	1.58	58.0	2.74	83.0	3.86
8.5	0.40	33.5	1.60	58.5	2.76	83.5	3.88
9.0	0.42	34.0	1.63	59.0	2.79	84.0	3.90
9.5	0.45	34.5	1.65	59.5	2.81	84.5	3.92
10.0	0.47	35.0	1.67	60.0	2.83	85.0	3.94
10.5	0.49	35.5	1.70	60.5	2.85	85.5	3.97
11.0	0.52	36.0	1.72	61.0	2.88	86.0	3.99
11.5	0.54	36.5	1.74	61.5	2.90	86.5	4.01
12.0	0.57	37.0	1.77	62.0	2.92	87.0	4.03
12.5	0.59	37.5	1.79	62.5	2.94	87.5	4.05
13.0	0.62	38.0	1.82	63.0	2.97	88.0	4.07
13.5	0.64	38.5	1.84	63.5	2.99	88.5	4.10
14.0	0.67	39.0	1.86	64.0	3.01	89.0	4.12
14.5	0.69	39.5	1.89	64.5	3.04	89.5	4.14
15.0	0.71	40.0	1.91	65.0	3.06	90.0	4.16
15.5	0.74	40.5	1.93	65.5	3.08	90.5	4.18
16.0	0.76	41.0	1.96	66.0	3.10	91.0	4.20
16.5	0.79	41.5	1.98	66.5	3.13	91.5	4.23
17.0	0.81	42.0	2.00	67.0	3.15	92.0	4.25
17.5	0.84	42.5	2.03	67.5	3.17	92.5	4.27
18.0	0.86	43.0	2.05	68.0	3.19	93.0	4.29
18.5	0.88	43.5	2.07	68.5	3.22	93.5	4.31
19.0	0.91	44.0	2.10	69.0	3.24	94.0	4.33
19.5	0.93	44.5	2.12	69.5	3.26	94.5	4.36
20.0	0.96	45.0	2.14	70.0	3.28	95.0	4.38
20.5	0.98	45.5	2.17	70.5	3.30	95.5	4.40
21.0	1.01	46.0	2.19	71.0	3.33	96.0	4.42
21.5	1.03	46.5	2.21	71.5	3.35	96.5	4.44
22.0	1.05	47.0	2.24	72.0	3.37	97.0	4.46
22.5	1.08	47.5	2.26	72.5	3.39	97.5	4.48
23.0	1.10	48.0	2.28	73.0	3.42	98.0	4.51
23.5	1.13	48.5	2.30	73.5	3.44	98.5	4.53
24.0	1.15	49.0	2.33	74.0	3.46	99.0	4.55
24.5	1.17	49.5	2.35	74.5	3.48	99.5	4.57
25.0	1.20	50.0	2.37	75.0	3.50	100.0	4.59

Temperature, °F 6.8

Temperature, °C - 14.0								
atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.61	125.5		5.65	150.5		6.65
101.0		4.63	126.0		5.67	151.0		6.67
101.5		4.65	126.5		5.70	151.5		6.69
102.0		4.68	127.0		5.72	152.0		6.71
102.5		4.70	127.5		5.74	152.5		6.73
103.0		4.72	128.0		5.76	153.0		6.75
103.5		4.74	128.5		5.78	153.5		6.77
104.0		4.76	129.0		5.80	154.0		6.79
104.5		4.78	129.5		5.82	154.5		6.81
105.0		4.80	130.0		5.84	155.0		6.83
105.5		4.82	130.5		5.86	155.5		6.85
106.0		4.85	131.0		5.88	156.0		6.87
106.5		4.87	131.5		5.90	156.5		6.89
107.0		4.89	132.0		5.92	157.0		6.91
107.5		4.91	132.5		5.94	157.5		6.93
108.0		4.93	133.0		5.96	158.0		6.95
108.5		4.95	133.5		5.98	158.5		6.97
109.0		4.97	134.0		6.00	159.0		6.99
109.5		4.99	134.5		6.02	159.5		7.00
110.0		5.01	135.0		6.04	160.0		7.02
110.5		5.03	135.5		6.06	160.5		7.04
111.0		5.06	136.0		6.08	161.0		7.06
111.5		5.08	136.5		6.10	161.5		7.08
112.0		5.10	137.0		6.12	162.0		7.10
112.5		5.12	137.5		6.14	162.5		7.12
113.0		5.14	138.0		6.16	163.0		7.14
113.5		5.16	138.5		6.18	163.5		7.16
114.0		5.18	139.0		6.20	164.0		7.18
114.5		5.20	139.5		6.22	164.5		7.20
115.0		5.22	140.0		6.24	165.0		7.22
115.5		5.24	140.5		6.26	165.5		7.23
116.0		5.26	141.0		6.28	166.0		7.25
116.5		5.28	141.5		6.30	166.5		7.27
117.0		5.30	142.0		6.32	167.0		7.29
117.5		5.33	142.5		6.34	167.5		7.31
118.0		5.35	143.0		6.36	168.0		7.33
118.5		5.37	143.5		6.38	168.5		7.35
119.0		5.39	144.0		6.40	169.0		7.37
119.5		5.41	144.5		6.42	169.5		7.39
120.0		5.43	145.0		6.44	170.0		7.41
120.5		5.45	145.5		6.46	170.5		7.42
121.0		5.47	146.0		6.48	171.0		7.44
121.5		5.49	146.5		6.50	171.5		7.46
122.0		5.51	147.0		6.52	172.0		7.48
122.5		5.53	147.5		6.54	172.5		7.50
123.0		5.55	148.0		6.56	173.0		7.52
123.5		5.57	148.5		6.58	173.5		7.54
124.0		5.59	149.0		6.60	174.0		7.56
124.5		5.61	149.5		6.62	174.5		7.58
125.0		5.63	150.0		6.63	175.0		7.59

				Temperature, °C - 13.0				
atü	-	kg		atü	-	kg		
0.5	0.00		25.5	1.22	50.5	2.39	75.5	3.51
1.0	0.02		26.0	1.24	51.0	2.41	76.0	3.54
1.5	0.05		26.5	1.26	51.5	2.43	76.5	3.56
2.0	0.07		27.0	1.29	52.0	2.46	77.0	3.58
2.5	0.10		27.5	1.31	52.5	2.48	77.5	3.60
3.0	0.12		28.0	1.34	53.0	2.50	78.0	3.62
3.5	0.15		28.5	1.36	53.5	2.53	78.5	3.65
4.0	0.17		29.0	1.38	54.0	2.55	79.0	3.67
4.5	0.20		29.5	1.41	54.5	2.57	79.5	3.69
5.0	0.22		30.0	1.43	55.0	2.59	80.0	3.71
5.5	0.25		30.5	1.45	55.5	2.62	80.5	3.73
6.0	0.27		31.0	1.48	56.0	2.64	81.0	3.75
6.5	0.30		31.5	1.50	56.5	2.66	81.5	3.78
7.0	0.32		32.0	1.53	57.0	2.68	82.0	3.80
7.5	0.35		32.5	1.55	57.5	2.71	82.5	3.82
8.0	0.37		33.0	1.57	58.0	2.73	83.0	3.84
8.5	0.39		33.5	1.60	58.5	2.75	83.5	3.86
9.0	0.42		34.0	1.62	59.0	2.78	84.0	3.89
9.5	0.44		34.5	1.64	59.5	2.80	84.5	3.91
10.0	0.47		35.0	1.67	60.0	2.82	85.0	3.93
10.5	0.49		35.5	1.69	60.5	2.84	85.5	3.95
11.0	0.52		36.0	1.71	61.0	2.87	86.0	3.97
11.5	0.54		36.5	1.74	61.5	2.89	86.5	3.99
12.0	0.57		37.0	1.76	62.0	2.91	87.0	4.02
12.5	0.59		37.5	1.78	62.5	2.93	87.5	4.04
13.0	0.61		38.0	1.81	63.0	2.96	88.0	4.06
13.5	0.64		38.5	1.83	63.5	2.98	88.5	4.08
14.0	0.66		39.0	1.85	64.0	3.00	89.0	4.10
14.5	0.69		39.5	1.88	64.5	3.02	89.5	4.12
15.0	0.71		40.0	1.90	65.0	3.05	90.0	4.15
15.5	0.74		40.5	1.93	65.5	3.07	90.5	4.17
16.0	0.76		41.0	1.95	66.0	3.09	91.0	4.19
16.5	0.78		41.5	1.97	66.5	3.11	91.5	4.21
17.0	0.81		42.0	1.99	67.0	3.14	92.0	4.23
17.5	0.83		42.5	2.02	67.5	3.16	92.5	4.25
18.0	0.86		43.0	2.04	68.0	3.18	93.0	4.27
18.5	0.88		43.5	2.06	68.5	3.20	93.5	4.30
19.0	0.91		44.0	2.09	69.0	3.22	94.0	4.32
19.5	0.93		44.5	2.11	69.5	3.25	94.5	4.34
20.0	0.95		45.0	2.13	70.0	3.27	95.0	4.36
20.5	0.98		45.5	2.16	70.5	3.29	95.5	4.38
21.0	1.00		46.0	2.18	71.0	3.31	96.0	4.40
21.5	1.03		46.5	2.20	71.5	3.34	96.5	4.42
22.0	1.05		47.0	2.23	72.0	3.36	97.0	4.45
22.5	1.07		47.5	2.25	72.5	3.38	97.5	4.47
23.0	1.10		48.0	2.27	73.0	3.40	98.0	4.49
23.5	1.12		48.5	2.30	73.5	3.42	98.5	4.51
24.0	1.15		49.0	2.32	74.0	3.45	99.0	4.53
24.5	1.17		49.5	2.34	74.5	3.47	99.5	4.55
25.0	1.19		50.0	2.36	75.0	3.49	100.0	4.57

atü - kg		atü - kg		atü - kg		atü - kg	
100.5	4.59	125.5	5.63	150.5	6.63	175.5	7.58
101.0	4.62	126.0	5.65	151.0	6.65	176.0	7.60
101.5	4.64	126.5	5.67	151.5	6.67	176.5	7.62
102.0	4.66	127.0	5.69	152.0	6.69	177.0	7.64
102.5	4.68	127.5	5.71	152.5	6.71	177.5	7.66
103.0	4.70	128.0	5.73	153.0	6.73	178.0	7.68
103.5	4.72	128.5	5.75	153.5	6.75	178.5	7.70
104.0	4.74	129.0	5.77	154.0	6.77	179.0	7.72
104.5	4.76	129.5	5.79	154.5	6.78	179.5	7.73
105.0	4.78	130.0	5.81	155.0	6.80	180.0	7.75
105.5	4.81	130.5	5.84	155.5	6.82	180.5	7.77
106.0	4.83	131.0	5.86	156.0	6.84	181.0	7.79
106.5	4.85	131.5	5.88	156.5	6.86	181.5	7.81
107.0	4.87	132.0	5.90	157.0	6.88	182.0	7.83
107.5	4.89	132.5	5.92	157.5	6.90	182.5	7.85
108.0	4.91	133.0	5.94	158.0	6.92	183.0	7.86
108.5	4.93	133.5	5.96	158.5	6.94	183.5	7.88
109.0	4.95	134.0	5.98	159.0	6.96	184.0	7.90
109.5	4.97	134.5	6.00	159.5	6.98	184.5	7.92
110.0	4.99	135.0	6.02	160.0	7.00	185.0	7.94
110.5	5.01	135.5	6.04	160.5	7.02	185.5	7.96
111.0	5.04	136.0	6.06	161.0	7.04	186.0	7.97
111.5	5.06	136.5	6.08	161.5	7.05	186.5	7.99
112.0	5.08	137.0	6.10	162.0	7.07	187.0	8.01
112.5	5.10	137.5	6.12	162.5	7.09	187.5	8.03
113.0	5.12	138.0	6.14	163.0	7.11	188.0	8.05
113.5	5.14	138.5	6.16	163.5	7.13	188.5	8.07
114.0	5.16	139.0	6.18	164.0	7.15	189.0	8.08
114.5	5.18	139.5	6.20	164.5	7.17	189.5	8.10
115.0	5.20	140.0	6.22	165.0	7.19	190.0	8.12
115.5	5.22	140.5	6.24	165.5	7.21	190.5	8.14
116.0	5.24	141.0	6.26	166.0	7.23	191.0	8.16
116.5	5.26	141.5	6.28	166.5	7.25	191.5	8.18
117.0	5.28	142.0	6.29	167.0	7.26	192.0	8.19
117.5	5.30	142.5	6.31	167.5	7.28	192.5	8.21
118.0	5.33	143.0	6.33	168.0	7.30	193.0	8.23
118.5	5.35	143.5	6.35	168.5	7.32	193.5	8.25
119.0	5.37	144.0	6.37	169.0	7.34	194.0	8.27
119.5	5.39	144.5	6.39	169.5	7.36	194.5	8.28
120.0	5.41	145.0	6.41	170.0	7.38	195.0	8.30
120.5	5.43	145.5	6.43	170.5	7.40	195.5	8.32
121.0	5.45	146.0	6.45	171.0	7.42	196.0	8.34
121.5	5.47	146.5	6.47	171.5	7.43	196.5	8.36
122.0	5.49	147.0	6.49	172.0	7.45	197.0	8.38
122.5	5.51	147.5	6.51	172.5	7.47	197.5	8.39
123.0	5.53	148.0	6.53	173.0	7.49	198.0	8.41
123.5	5.55	148.5	6.55	173.5	7.51	198.5	8.43
124.0	5.57	149.0	6.57	174.0	7.53	199.0	8.45
124.5	5.59	149.5	6.59	174.5	7.55	199.5	8.47
125.0	5.61	150.0	6.61	175.0	7.57	200.0	8.48

Temperature, °C

- 13.0

Temperature, °F

8.6

atü - kg		atü - kg		Temperature, °C		atü - kg	
0.5	0.00	25.5	1.21	50.5	2.38	75.5	3.50
1.0	0.02	26.0	1.24	51.0	2.40	76.0	3.52
1.5	0.05	26.5	1.26	51.5	2.42	76.5	3.54
2.0	0.07	27.0	1.28	52.0	2.45	77.0	3.57
2.5	0.10	27.5	1.31	52.5	2.47	77.5	3.59
3.0	0.12	28.0	1.33	53.0	2.49	78.0	3.61
3.5	0.15	28.5	1.35	53.5	2.52	78.5	3.63
4.0	0.17	29.0	1.38	54.0	2.54	79.0	3.65
4.5	0.20	29.5	1.40	54.5	2.56	79.5	3.67
5.0	0.22	30.0	1.43	55.0	2.58	80.0	3.70
5.5	0.25	30.5	1.45	55.5	2.61	80.5	3.72
6.0	0.27	31.0	1.47	56.0	2.63	81.0	3.74
6.5	0.30	31.5	1.50	56.5	2.65	81.5	3.76
7.0	0.32	32.0	1.52	57.0	2.67	82.0	3.78
7.5	0.34	32.5	1.54	57.5	2.70	82.5	3.81
8.0	0.37	33.0	1.57	58.0	2.72	83.0	3.83
8.5	0.39	33.5	1.59	58.5	2.74	83.5	3.85
9.0	0.42	34.0	1.61	59.0	2.76	84.0	3.87
9.5	0.44	34.5	1.64	59.5	2.79	84.5	3.89
10.0	0.47	35.0	1.66	60.0	2.81	85.0	3.91
10.5	0.49	35.5	1.68	60.5	2.83	85.5	3.94
11.0	0.51	36.0	1.71	61.0	2.85	86.0	3.96
11.5	0.54	36.5	1.73	61.5	2.88	86.5	3.98
12.0	0.56	37.0	1.75	62.0	2.90	87.0	4.00
12.5	0.59	37.5	1.78	62.5	2.92	87.5	4.02
13.0	0.61	38.0	1.80	63.0	2.94	88.0	4.04
13.5	0.64	38.5	1.82	63.5	2.97	88.5	4.07
14.0	0.66	39.0	1.85	64.0	2.99	89.0	4.09
14.5	0.68	39.5	1.87	64.5	3.01	89.5	4.11
15.0	0.71	40.0	1.89	65.0	3.03	90.0	4.13
15.5	0.73	40.5	1.92	65.5	3.06	90.5	4.15
16.0	0.76	41.0	1.94	66.0	3.08	91.0	4.17
16.5	0.78	41.5	1.96	66.5	3.10	91.5	4.19
17.0	0.81	42.0	1.99	67.0	3.12	92.0	4.22
17.5	0.83	42.5	2.01	67.5	3.15	92.5	4.24
18.0	0.85	43.0	2.03	68.0	3.17	93.0	4.26
18.5	0.88	43.5	2.06	68.5	3.19	93.5	4.28
19.0	0.90	44.0	2.08	69.0	3.21	94.0	4.30
19.5	0.93	44.5	2.10	69.5	3.23	94.5	4.32
20.0	0.95	45.0	2.13	70.0	3.26	95.0	4.34
20.5	0.97	45.5	2.15	70.5	3.28	95.5	4.36
21.0	1.00	46.0	2.17	71.0	3.30	96.0	4.39
21.5	1.02	46.5	2.20	71.5	3.32	96.5	4.41
22.0	1.05	47.0	2.22	72.0	3.35	97.0	4.43
22.5	1.07	47.5	2.24	72.5	3.37	97.5	4.45
23.0	1.09	48.0	2.26	73.0	3.39	98.0	4.47
23.5	1.12	48.5	2.29	73.5	3.41	98.5	4.49
24.0	1.14	49.0	2.31	74.0	3.43	99.0	4.51
24.5	1.16	49.5	2.33	74.5	3.46	99.5	4.53
25.0	1.19	50.0	2.36	75.0	3.48	100.0	4.56

Temperature, °C - 11.0							
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.21	50.5	2.37	75.5	3.49
1.0	0.02	26.0	1.23	51.0	2.39	76.0	3.51
1.5	0.05	26.5	1.26	51.5	2.41	76.5	3.53
2.0	0.07	27.0	1.28	52.0	2.44	77.0	3.55
2.5	0.10	27.5	1.30	52.5	2.46	77.5	3.57
3.0	0.12	28.0	1.33	53.0	2.48	78.0	3.60
3.5	0.15	28.5	1.35	53.5	2.51	78.5	3.62
4.0	0.17	29.0	1.37	54.0	2.53	79.0	3.64
4.5	0.20	29.5	1.40	54.5	2.55	79.5	3.66
5.0	0.22	30.0	1.42	55.0	2.57	80.0	3.68
5.5	0.25	30.5	1.44	55.5	2.60	80.5	3.70
6.0	0.27	31.0	1.47	56.0	2.62	81.0	3.73
6.5	0.29	31.5	1.49	56.5	2.64	81.5	3.75
7.0	0.32	32.0	1.51	57.0	2.66	82.0	3.77
7.5	0.34	32.5	1.54	57.5	2.69	82.5	3.79
8.0	0.37	33.0	1.56	58.0	2.71	83.0	3.81
8.5	0.39	33.5	1.58	58.5	2.73	83.5	3.83
9.0	0.42	34.0	1.61	59.0	2.75	84.0	3.86
9.5	0.44	34.5	1.63	59.5	2.78	84.5	3.88
10.0	0.46	35.0	1.65	60.0	2.80	85.0	3.90
10.5	0.49	35.5	1.68	60.5	2.82	85.5	3.92
11.0	0.51	36.0	1.70	61.0	2.84	86.0	3.94
11.5	0.54	36.5	1.72	61.5	2.87	86.5	3.96
12.0	0.56	37.0	1.75	62.0	2.89	87.0	3.99
12.5	0.59	37.5	1.77	62.5	2.91	87.5	4.01
13.0	0.61	38.0	1.79	63.0	2.93	88.0	4.03
13.5	0.63	38.5	1.82	63.5	2.96	88.5	4.05
14.0	0.66	39.0	1.84	64.0	2.98	89.0	4.07
14.5	0.68	39.5	1.86	64.5	3.00	89.5	4.09
15.0	0.71	40.0	1.89	65.0	3.02	90.0	4.11
15.5	0.73	40.5	1.91	65.5	3.04	90.5	4.14
16.0	0.75	41.0	1.93	66.0	3.07	91.0	4.16
16.5	0.78	41.5	1.96	66.5	3.09	91.5	4.18
17.0	0.80	42.0	1.98	67.0	3.11	92.0	4.20
17.5	0.83	42.5	2.00	67.5	3.13	92.5	4.22
18.0	0.85	43.0	2.03	68.0	3.16	93.0	4.24
18.5	0.87	43.5	2.05	68.5	3.18	93.5	4.26
19.0	0.90	44.0	2.07	69.0	3.20	94.0	4.28
19.5	0.92	44.5	2.09	69.5	3.22	94.5	4.31
20.0	0.95	45.0	2.12	70.0	3.24	95.0	4.33
20.5	0.97	45.5	2.14	70.5	3.27	95.5	4.35
21.0	0.99	46.0	2.16	71.0	3.29	96.0	4.37
21.5	1.02	46.5	2.19	71.5	3.31	96.5	4.39
22.0	1.04	47.0	2.21	72.0	3.33	97.0	4.41
22.5	1.07	47.5	2.23	72.5	3.35	97.5	4.43
23.0	1.09	48.0	2.26	73.0	3.38	98.0	4.45
23.5	1.11	48.5	2.28	73.5	3.40	98.5	4.47
24.0	1.14	49.0	2.30	74.0	3.42	99.0	4.50
24.5	1.16	49.5	2.32	74.5	3.44	99.5	4.52
25.0	1.18	50.0	2.35	75.0	3.46	100.0	4.54

Temperature, °F

12.2

				Temperature, °C = 10.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.20		50.5		2.36		75.5		3.47	
1.0		0.02		26.0		1.23		51.0		2.38		76.0		3.49	
1.5		0.05		26.5		1.25		51.5		2.41		76.5		3.52	
2.0		0.07		27.0		1.27		52.0		2.43		77.0		3.54	
2.5		0.10		27.5		1.30		52.5		2.45		77.5		3.56	
3.0		0.12		28.0		1.32		53.0		2.47		78.0		3.58	
3.5		0.15		28.5		1.34		53.5		2.50		78.5		3.60	
4.0		0.17		29.0		1.37		54.0		2.52		79.0		3.62	
4.5		0.20		29.5		1.39		54.5		2.54		79.5		3.65	
5.0		0.22		30.0		1.41		55.0		2.56		80.0		3.67	
5.5		0.24		30.5		1.44		55.5		2.59		80.5		3.69	
6.0		0.27		31.0		1.46		56.0		2.61		81.0		3.71	
6.5		0.29		31.5		1.48		56.5		2.63		81.5		3.73	
7.0		0.32		32.0		1.51		57.0		2.65		82.0		3.75	
7.5		0.34		32.5		1.53		57.5		2.68		82.5		3.78	
8.0		0.37		33.0		1.55		58.0		2.70		83.0		3.80	
8.5		0.39		33.5		1.58		58.5		2.72		83.5		3.82	
9.0		0.41		34.0		1.60		59.0		2.74		84.0		3.84	
9.5		0.44		34.5		1.62		59.5		2.77		84.5		3.86	
10.0		0.46		35.0		1.65		60.0		2.79		85.0		3.88	
10.5		0.49		35.5		1.67		60.5		2.81		85.5		3.91	
11.0		0.51		36.0		1.69		61.0		2.83		86.0		3.93	
11.5		0.54		36.5		1.72		61.5		2.86		86.5		3.95	
12.0		0.56		37.0		1.74		62.0		2.88		87.0		3.97	
12.5		0.58		37.5		1.76		62.5		2.90		87.5		3.99	
13.0		0.61		38.0		1.79		63.0		2.92		88.0		4.01	
13.5		0.63		38.5		1.81		63.5		2.94		88.5		4.03	
14.0		0.66		39.0		1.83		64.0		2.97		89.0		4.06	
14.5		0.68		39.5		1.86		64.5		2.99		89.5		4.08	
15.0		0.70		40.0		1.88		65.0		3.01		90.0		4.10	
15.5		0.73		40.5		1.90		65.5		3.03		90.5		4.12	
16.0		0.75		41.0		1.93		66.0		3.06		91.0		4.14	
16.5		0.78		41.5		1.95		66.5		3.08		91.5		4.16	
17.0		0.80		42.0		1.97		67.0		3.10		92.0		4.18	
17.5		0.82		42.5		1.99		67.5		3.12		92.5		4.20	
18.0		0.85		43.0		2.02		68.0		3.14		93.0		4.23	
18.5		0.87		43.5		2.04		68.5		3.17		93.5		4.25	
19.0		0.89		44.0		2.06		69.0		3.19		94.0		4.27	
19.5		0.92		44.5		2.09		69.5		3.21		94.5		4.29	
20.0		0.94		45.0		2.11		70.0		3.23		95.0		4.31	
20.5		0.97		45.5		2.13		70.5		3.25		95.5		4.33	
21.0		0.99		46.0		2.16		71.0		3.28		96.0		4.35	
21.5		1.01		46.5		2.18		71.5		3.30		96.5		4.37	
22.0		1.04		47.0		2.20		72.0		3.32		97.0		4.39	
22.5		1.06		47.5		2.22		72.5		3.34		97.5		4.42	
23.0		1.08		48.0		2.25		73.0		3.36		98.0		4.44	
23.5		1.11		48.5		2.27		73.5		3.39		98.5		4.46	
24.0		1.13		49.0		2.29		74.0		3.41		99.0		4.48	
24.5		1.16		49.5		2.31		74.5		3.43		99.5		4.50	
25.0		1.18		50.0		2.34		75.0		3.45		100.0		4.52	

Temperature, °F

14.0

		Temperature, °C				= 10.0	
atü	kg	atü	kg	atü	kg	atü	kg
100.5	4.54	125.5	5.57	150.5	6.55	175.5	7.50
101.0	4.56	126.0	5.59	151.0	6.57	176.0	7.52
101.5	4.58	126.5	5.61	151.5	6.59	176.5	7.54
102.0	4.60	127.0	5.63	152.0	6.61	177.0	7.56
102.5	4.63	127.5	5.65	152.5	6.63	177.5	7.57
103.0	4.65	128.0	5.67	153.0	6.65	178.0	7.59
103.5	4.67	128.5	5.69	153.5	6.67	178.5	7.61
104.0	4.69	129.0	5.71	154.0	6.69	179.0	7.63
104.5	4.71	129.5	5.73	154.5	6.71	179.5	7.65
105.0	4.73	130.0	5.75	155.0	6.73	180.0	7.67
105.5	4.75	130.5	5.77	155.5	6.75	180.5	7.68
106.0	4.77	131.0	5.79	156.0	6.77	181.0	7.70
106.5	4.79	131.5	5.81	156.5	6.78	181.5	7.72
107.0	4.81	132.0	5.83	157.0	6.80	182.0	7.74
107.5	4.83	132.5	5.85	157.5	6.82	182.5	7.76
108.0	4.85	133.0	5.87	158.0	6.84	183.0	7.78
108.5	4.87	133.5	5.89	158.5	6.86	183.5	7.79
109.0	4.90	134.0	5.91	159.0	6.88	184.0	7.81
109.5	4.92	134.5	5.93	159.5	6.90	184.5	7.83
110.0	4.94	135.0	5.95	160.0	6.92	185.0	7.85
110.5	4.96	135.5	5.97	160.5	6.94	185.5	7.87
111.0	4.98	136.0	5.99	161.0	6.96	186.0	7.89
111.5	5.00	136.5	6.01	161.5	6.97	186.5	7.90
112.0	5.02	137.0	6.03	162.0	6.99	187.0	7.92
112.5	5.04	137.5	6.05	162.5	7.01	187.5	7.94
113.0	5.06	138.0	6.07	163.0	7.03	188.0	7.96
113.5	5.08	138.5	6.09	163.5	7.05	188.5	7.98
114.0	5.10	139.0	6.11	164.0	7.07	189.0	7.99
114.5	5.12	139.5	6.13	164.5	7.09	189.5	8.01
115.0	5.14	140.0	6.14	165.0	7.11	190.0	8.03
115.5	5.16	140.5	6.16	165.5	7.13	190.5	8.05
116.0	5.18	141.0	6.18	166.0	7.14	191.0	8.07
116.5	5.20	141.5	6.20	166.5	7.16	191.5	8.08
117.0	5.22	142.0	6.22	167.0	7.18	192.0	8.10
117.5	5.24	142.5	6.24	167.5	7.20	192.5	8.12
118.0	5.26	143.0	6.26	168.0	7.22	193.0	8.14
118.5	5.29	143.5	6.28	168.5	7.24	193.5	8.16
119.0	5.31	144.0	6.30	169.0	7.26	194.0	8.17
119.5	5.33	144.5	6.32	169.5	7.28	194.5	8.19
120.0	5.35	145.0	6.34	170.0	7.30	195.0	8.21
120.5	5.37	145.5	6.36	170.5	7.31	195.5	8.23
121.0	5.39	146.0	6.38	171.0	7.33	196.0	8.25
121.5	5.41	146.5	6.40	171.5	7.35	196.5	8.26
122.0	5.43	147.0	6.42	172.0	7.37	197.0	8.28
122.5	5.45	147.5	6.44	172.5	7.39	197.5	8.30
123.0	5.47	148.0	6.46	173.0	7.41	198.0	8.32
123.5	5.49	148.5	6.48	173.5	7.43	198.5	8.34
124.0	5.51	149.0	6.50	174.0	7.44	199.0	8.35
124.5	5.53	149.5	6.52	174.5	7.46	199.5	8.37
125.0	5.55	150.0	6.53	175.0	7.48	200.0	8.39

				Temperature, °C				
atü	-	kg		atü	-	kg		
0.5	0.00		25.5	1.20	50.5	2.35	75.5	3.46
1.0	0.02		26.0	1.22	51.0	2.37	76.0	3.48
1.5	0.05		26.5	1.25	51.5	2.40	76.5	3.50
2.0	0.07		27.0	1.27	52.0	2.42	77.0	3.52
2.5	0.10		27.5	1.29	52.5	2.44	77.5	3.55
3.0	0.12		28.0	1.32	53.0	2.46	78.0	3.57
3.5	0.15		28.5	1.34	53.5	2.49	78.5	3.59
4.0	0.17		29.0	1.36	54.0	2.51	79.0	3.61
4.5	0.19		29.5	1.39	54.5	2.53	79.5	3.63
5.0	0.22		30.0	1.41	55.0	2.55	80.0	3.65
5.5	0.24		30.5	1.43	55.5	2.58	80.5	3.68
6.0	0.27		31.0	1.46	56.0	2.60	81.0	3.70
6.5	0.29		31.5	1.48	56.5	2.62	81.5	3.72
7.0	0.32		32.0	1.50	57.0	2.64	82.0	3.74
7.5	0.34		32.5	1.53	57.5	2.67	82.5	3.76
8.0	0.36		33.0	1.55	58.0	2.69	83.0	3.78
8.5	0.39		33.5	1.57	58.5	2.71	83.5	3.80
9.0	0.41		34.0	1.60	59.0	2.73	84.0	3.83
9.5	0.44		34.5	1.62	59.5	2.76	84.5	3.85
10.0	0.46		35.0	1.64	60.0	2.78	85.0	3.87
10.5	0.48		35.5	1.66	60.5	2.80	85.5	3.89
11.0	0.51		36.0	1.69	61.0	2.82	86.0	3.91
11.5	0.53		36.5	1.71	61.5	2.84	86.5	3.93
12.0	0.56		37.0	1.73	62.0	2.87	87.0	3.95
12.5	0.58		37.5	1.76	62.5	2.89	87.5	3.98
13.0	0.60		38.0	1.78	63.0	2.91	88.0	4.00
13.5	0.63		38.5	1.80	63.5	2.93	88.5	4.02
14.0	0.65		39.0	1.83	64.0	2.96	89.0	4.04
14.5	0.68		39.5	1.85	64.5	2.98	89.5	4.06
15.0	0.70		40.0	1.87	65.0	3.00	90.0	4.08
15.5	0.72		40.5	1.90	65.5	3.02	90.5	4.10
16.0	0.75		41.0	1.92	66.0	3.04	91.0	4.12
16.5	0.77		41.5	1.94	66.5	3.07	91.5	4.15
17.0	0.80		42.0	1.96	67.0	3.09	92.0	4.17
17.5	0.82		42.5	1.99	67.5	3.11	92.5	4.19
18.0	0.84		43.0	2.01	68.0	3.13	93.0	4.21
18.5	0.87		43.5	2.03	68.5	3.15	93.5	4.23
19.0	0.89		44.0	2.06	69.0	3.18	94.0	4.25
19.5	0.91		44.5	2.08	69.5	3.20	94.5	4.27
20.0	0.94		45.0	2.10	70.0	3.22	95.0	4.29
20.5	0.96		45.5	2.12	70.5	3.24	95.5	4.31
21.0	0.99		46.0	2.15	71.0	3.26	96.0	4.34
21.5	1.01		46.5	2.17	71.5	3.28	96.5	4.36
22.0	1.03		47.0	2.19	72.0	3.31	97.0	4.38
22.5	1.06		47.5	2.22	72.5	3.33	97.5	4.40
23.0	1.08		48.0	2.24	73.0	3.35	98.0	4.42
23.5	1.10		48.5	2.26	73.5	3.37	98.5	4.44
24.0	1.13		49.0	2.28	74.0	3.39	99.0	4.46
24.5	1.15		49.5	2.31	74.5	3.42	99.5	4.48
25.0	1.17		50.0	2.33	75.0	3.44	100.0	4.50

				Temperature, °C		- 9.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
100.5	4.52	125.5	5.55	150.5	6.53	175.5	7.47
101.0	4.55	126.0	5.57	151.0	6.55	176.0	7.49
101.5	4.57	126.5	5.59	151.5	6.57	176.5	7.51
102.0	4.59	127.0	5.61	152.0	6.59	177.0	7.53
102.5	4.61	127.5	5.63	152.5	6.61	177.5	7.55
103.0	4.63	128.0	5.65	153.0	6.63	178.0	7.56
103.5	4.65	128.5	5.67	153.5	6.64	178.5	7.58
104.0	4.67	129.0	5.69	154.0	6.66	179.0	7.60
104.5	4.69	129.5	5.71	154.5	6.68	179.5	7.62
105.0	4.71	130.0	5.73	155.0	6.70	180.0	7.64
105.5	4.73	130.5	5.75	155.5	6.72	180.5	7.66
106.0	4.75	131.0	5.77	156.0	6.74	181.0	7.67
106.5	4.77	131.5	5.79	156.5	6.76	181.5	7.69
107.0	4.79	132.0	5.81	157.0	6.78	182.0	7.71
107.5	4.81	132.5	5.83	157.5	6.80	182.5	7.73
108.0	4.84	133.0	5.85	158.0	6.82	183.0	7.75
108.5	4.86	133.5	5.87	158.5	6.84	183.5	7.77
109.0	4.88	134.0	5.89	159.0	6.85	184.0	7.78
109.5	4.90	134.5	5.91	159.5	6.87	184.5	7.80
110.0	4.92	135.0	5.93	160.0	6.89	185.0	7.82
110.5	4.94	135.5	5.94	160.5	6.91	185.5	7.84
111.0	4.96	136.0	5.96	161.0	6.93	186.0	7.86
111.5	4.98	136.5	5.98	161.5	6.95	186.5	7.87
112.0	5.00	137.0	6.00	162.0	6.97	187.0	7.89
112.5	5.02	137.5	6.02	162.5	6.99	187.5	7.91
113.0	5.04	138.0	6.04	163.0	7.01	188.0	7.93
113.5	5.06	138.5	6.06	163.5	7.02	188.5	7.95
114.0	5.08	139.0	6.08	164.0	7.04	189.0	7.96
114.5	5.10	139.5	6.10	164.5	7.06	189.5	7.98
115.0	5.12	140.0	6.12	165.0	7.08	190.0	8.00
115.5	5.14	140.5	6.14	165.5	7.10	190.5	8.02
116.0	5.16	141.0	6.16	166.0	7.12	191.0	8.04
116.5	5.18	141.5	6.18	166.5	7.14	191.5	8.05
117.0	5.20	142.0	6.20	167.0	7.16	192.0	8.07
117.5	5.22	142.5	6.22	167.5	7.17	192.5	8.09
118.0	5.24	143.0	6.24	168.0	7.19	193.0	8.11
118.5	5.27	143.5	6.26	168.5	7.21	193.5	8.13
119.0	5.29	144.0	6.28	169.0	7.23	194.0	8.14
119.5	5.31	144.5	6.30	169.5	7.25	194.5	8.16
120.0	5.33	145.0	6.32	170.0	7.27	195.0	8.18
120.5	5.35	145.5	6.34	170.5	7.29	195.5	8.20
121.0	5.37	146.0	6.36	171.0	7.30	196.0	8.22
121.5	5.39	146.5	6.37	171.5	7.32	196.5	8.23
122.0	5.41	147.0	6.39	172.0	7.34	197.0	8.25
122.5	5.43	147.5	6.41	172.5	7.36	197.5	8.27
123.0	5.45	148.0	6.43	173.0	7.38	198.0	8.29
123.5	5.47	148.5	6.45	173.5	7.40	198.5	8.30
124.0	5.49	149.0	6.47	174.0	7.42	199.0	8.32
124.5	5.51	149.5	6.49	174.5	7.43	199.5	8.34
125.0	5.53	150.0	6.51	175.0	7.45	200.0	8.36

Temperature, °F

15.8

				Temperature, °C - 8.0			
atü	-	kg		atü	-	kg	
100.5	4.51	125.5	5.53	150.5	6.50	175.5	7.44
101.0	4.53	126.0	5.55	151.0	6.52	176.0	7.46
101.5	4.55	126.5	5.57	151.5	6.54	176.5	7.48
102.0	4.57	127.0	5.59	152.0	6.56	177.0	7.50
102.5	4.59	127.5	5.61	152.5	6.58	177.5	7.52
103.0	4.61	128.0	5.63	153.0	6.60	178.0	7.54
103.5	4.63	128.5	5.65	153.5	6.62	178.5	7.55
104.0	4.65	129.0	5.67	154.0	6.64	179.0	7.57
104.5	4.67	129.5	5.69	154.5	6.66	179.5	7.59
105.0	4.69	130.0	5.71	155.0	6.68	180.0	7.61
105.5	4.71	130.5	5.73	155.5	6.70	180.5	7.63
106.0	4.73	131.0	5.75	156.0	6.71	181.0	7.65
106.5	4.76	131.5	5.76	156.5	6.73	181.5	7.66
107.0	4.78	132.0	5.78	157.0	6.75	182.0	7.68
107.5	4.80	132.5	5.80	157.5	6.77	182.5	7.70
108.0	4.82	133.0	5.82	158.0	6.79	183.0	7.72
108.5	4.84	133.5	5.84	158.5	6.81	183.5	7.74
109.0	4.86	134.0	5.86	159.0	6.83	184.0	7.75
109.5	4.88	134.5	5.88	159.5	6.85	184.5	7.77
110.0	4.90	135.0	5.90	160.0	6.87	185.0	7.79
110.5	4.92	135.5	5.92	160.5	6.89	185.5	7.81
111.0	4.94	136.0	5.94	161.0	6.90	186.0	7.83
111.5	4.96	136.5	5.96	161.5	6.92	186.5	7.84
112.0	4.98	137.0	5.98	162.0	6.94	187.0	7.86
112.5	5.00	137.5	6.00	162.5	6.96	187.5	7.88
113.0	5.02	138.0	6.02	163.0	6.98	188.0	7.90
113.5	5.04	138.5	6.04	163.5	7.00	188.5	7.92
114.0	5.06	139.0	6.06	164.0	7.02	189.0	7.93
114.5	5.08	139.5	6.08	164.5	7.04	189.5	7.95
115.0	5.10	140.0	6.10	165.0	7.05	190.0	7.97
115.5	5.12	140.5	6.12	165.5	7.07	190.5	7.99
116.0	5.14	141.0	6.14	166.0	7.09	191.0	8.01
116.5	5.16	141.5	6.16	166.5	7.11	191.5	8.02
117.0	5.18	142.0	6.18	167.0	7.13	192.0	8.04
117.5	5.20	142.5	6.20	167.5	7.15	192.5	8.06
118.0	5.22	143.0	6.22	168.0	7.17	193.0	8.08
118.5	5.25	143.5	6.23	168.5	7.18	193.5	8.10
119.0	5.27	144.0	6.25	169.0	7.20	194.0	8.11
119.5	5.29	144.5	6.27	169.5	7.22	194.5	8.13
120.0	5.31	145.0	6.29	170.0	7.24	195.0	8.15
120.5	5.33	145.5	6.31	170.5	7.26	195.5	8.17
121.0	5.35	146.0	6.33	171.0	7.28	196.0	8.19
121.5	5.37	146.5	6.35	171.5	7.30	196.5	8.20
122.0	5.39	147.0	6.37	172.0	7.31	197.0	8.22
122.5	5.41	147.5	6.39	172.5	7.33	197.5	8.24
123.0	5.43	148.0	6.41	173.0	7.35	198.0	8.26
123.5	5.45	148.5	6.43	173.5	7.37	198.5	8.27
124.0	5.47	149.0	6.45	174.0	7.39	199.0	8.29
124.5	5.49	149.5	6.47	174.5	7.41	199.5	8.31
125.0	5.51	150.0	6.49	175.0	7.43	200.0	8.33

Temperature, °F

17.6

atü - kg		atü - kg		Temperature, °C		- 7.0	
0.5	0.00	25.5	1.19	50.5	2.33	75.5	3.43
1.0	0.02	26.0	1.21	51.0	2.36	76.0	3.45
1.5	0.05	26.5	1.24	51.5	2.38	76.5	3.48
2.0	0.07	27.0	1.26	52.0	2.40	77.0	3.50
2.5	0.10	27.5	1.28	52.5	2.42	77.5	3.52
3.0	0.12	28.0	1.31	53.0	2.45	78.0	3.54
3.5	0.15	28.5	1.33	53.5	2.47	78.5	3.56
4.0	0.17	29.0	1.35	54.0	2.49	79.0	3.58
4.5	0.19	29.5	1.38	54.5	2.51	79.5	3.60
5.0	0.22	30.0	1.40	55.0	2.53	80.0	3.63
5.5	0.24	30.5	1.42	55.5	2.56	80.5	3.65
6.0	0.27	31.0	1.44	56.0	2.58	81.0	3.67
6.5	0.29	31.5	1.47	56.5	2.60	81.5	3.69
7.0	0.31	32.0	1.49	57.0	2.62	82.0	3.71
7.5	0.34	32.5	1.51	57.5	2.65	82.5	3.73
8.0	0.36	33.0	1.54	58.0	2.67	83.0	3.75
8.5	0.39	33.5	1.56	58.5	2.69	83.5	3.78
9.0	0.41	34.0	1.58	59.0	2.71	84.0	3.80
9.5	0.43	34.5	1.61	59.5	2.73	84.5	3.82
10.0	0.46	35.0	1.63	60.0	2.76	85.0	3.84
10.5	0.48	35.5	1.65	60.5	2.78	85.5	3.86
11.0	0.51	36.0	1.68	61.0	2.80	86.0	3.88
11.5	0.53	36.5	1.70	61.5	2.82	86.5	3.90
12.0	0.55	37.0	1.72	62.0	2.84	87.0	3.92
12.5	0.58	37.5	1.74	62.5	2.87	87.5	3.95
13.0	0.60	38.0	1.77	63.0	2.89	88.0	3.97
13.5	0.62	38.5	1.79	63.5	2.91	88.5	3.99
14.0	0.65	39.0	1.81	64.0	2.93	89.0	4.01
14.5	0.67	39.5	1.84	64.5	2.95	89.5	4.03
15.0	0.70	40.0	1.86	65.0	2.98	90.0	4.05
15.5	0.72	40.5	1.88	65.5	3.00	90.5	4.07
16.0	0.74	41.0	1.90	66.0	3.02	91.0	4.09
16.5	0.77	41.5	1.93	66.5	3.04	91.5	4.11
17.0	0.79	42.0	1.95	67.0	3.06	92.0	4.14
17.5	0.81	42.5	1.97	67.5	3.09	92.5	4.16
18.0	0.84	43.0	1.99	68.0	3.11	93.0	4.18
18.5	0.86	43.5	2.02	68.5	3.13	93.5	4.20
19.0	0.88	44.0	2.04	69.0	3.15	94.0	4.22
19.5	0.91	44.5	2.06	69.5	3.17	94.5	4.24
20.0	0.93	45.0	2.09	70.0	3.19	95.0	4.26
20.5	0.95	45.5	2.11	70.5	3.22	95.5	4.28
21.0	0.98	46.0	2.13	71.0	3.24	96.0	4.30
21.5	1.00	46.5	2.15	71.5	3.26	96.5	4.32
22.0	1.03	47.0	2.18	72.0	3.28	97.0	4.34
22.5	1.05	47.5	2.20	72.5	3.30	97.5	4.37
23.0	1.07	48.0	2.22	73.0	3.32	98.0	4.39
23.5	1.10	48.5	2.24	73.5	3.35	98.5	4.41
24.0	1.12	49.0	2.27	74.0	3.37	99.0	4.43
24.5	1.14	49.5	2.29	74.5	3.39	99.5	4.45
25.0	1.17	50.0	2.31	75.0	3.41	100.0	4.47

Temperature, °F

19.4

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
100.5	4.49	125.5	5.51	150.5	6.48	175.5	7.42
101.0	4.51	126.0	5.53	151.0	6.50	176.0	7.43
101.5	4.53	126.5	5.55	151.5	6.52	176.5	7.45
102.0	4.55	127.0	5.57	152.0	6.54	177.0	7.47
102.5	4.57	127.5	5.58	152.5	6.56	177.5	7.49
103.0	4.59	128.0	5.60	153.0	6.58	178.0	7.51
103.5	4.61	128.5	5.62	153.5	6.59	178.5	7.53
104.0	4.63	129.0	5.64	154.0	6.61	179.0	7.54
104.5	4.66	129.5	5.66	154.5	6.63	179.5	7.56
105.0	4.68	130.0	5.68	155.0	6.65	180.0	7.58
105.5	4.70	130.5	5.70	155.5	6.67	180.5	7.60
106.0	4.72	131.0	5.72	156.0	6.69	181.0	7.62
106.5	4.74	131.5	5.74	156.5	6.71	181.5	7.64
107.0	4.76	132.0	5.76	157.0	6.73	182.0	7.65
107.5	4.78	132.5	5.78	157.5	6.75	182.5	7.67
108.0	4.80	133.0	5.80	158.0	6.77	183.0	7.69
108.5	4.82	133.5	5.82	158.5	6.78	183.5	7.71
109.0	4.84	134.0	5.84	159.0	6.80	184.0	7.73
109.5	4.86	134.5	5.86	159.5	6.82	184.5	7.74
110.0	4.88	135.0	5.88	160.0	6.84	185.0	7.76
110.5	4.90	135.5	5.90	160.5	6.86	185.5	7.78
111.0	4.92	136.0	5.92	161.0	6.88	186.0	7.80
111.5	4.94	136.5	5.94	161.5	6.90	186.5	7.82
112.0	4.96	137.0	5.96	162.0	6.92	187.0	7.83
112.5	4.98	137.5	5.98	162.5	6.93	187.5	7.85
113.0	5.00	138.0	6.00	163.0	6.95	188.0	7.87
113.5	5.02	138.5	6.02	163.5	6.97	188.5	7.89
114.0	5.04	139.0	6.04	164.0	6.99	189.0	7.91
114.5	5.06	139.5	6.06	164.5	7.01	189.5	7.92
115.0	5.08	140.0	6.08	165.0	7.03	190.0	7.94
115.5	5.10	140.5	6.10	165.5	7.05	190.5	7.96
116.0	5.12	141.0	6.11	166.0	7.07	191.0	7.98
116.5	5.14	141.5	6.13	166.5	7.08	191.5	8.00
117.0	5.16	142.0	6.15	167.0	7.10	192.0	8.01
117.5	5.18	142.5	6.17	167.5	7.12	192.5	8.03
118.0	5.21	143.0	6.19	168.0	7.14	193.0	8.05
118.5	5.23	143.5	6.21	168.5	7.16	193.5	8.07
119.0	5.25	144.0	6.23	169.0	7.18	194.0	8.08
119.5	5.27	144.5	6.25	169.5	7.20	194.5	8.10
120.0	5.29	145.0	6.27	170.0	7.21	195.0	8.12
120.5	5.31	145.5	6.29	170.5	7.23	195.5	8.14
121.0	5.33	146.0	6.31	171.0	7.25	196.0	8.16
121.5	5.35	146.5	6.33	171.5	7.27	196.5	8.17
122.0	5.37	147.0	6.35	172.0	7.29	197.0	8.19
122.5	5.39	147.5	6.37	172.5	7.31	197.5	8.21
123.0	5.41	148.0	6.38	173.0	7.32	198.0	8.23
123.5	5.43	148.5	6.40	173.5	7.34	198.5	8.24
124.0	5.45	149.0	6.42	174.0	7.36	199.0	8.26
124.5	5.47	149.5	6.44	174.5	7.38	199.5	8.28
125.0	5.49	150.0	6.46	175.0	7.40	200.0	8.30

Temperature, °F

19.4

Temperature, °C							
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.18	50.5	2.32	75.5	3.42
1.0	0.02	26.0	1.21	51.0	2.35	76.0	3.44
1.5	0.05	26.5	1.23	51.5	2.37	76.5	3.46
2.0	0.07	27.0	1.25	52.0	2.39	77.0	3.48
2.5	0.10	27.5	1.28	52.5	2.41	77.5	3.51
3.0	0.12	28.0	1.30	53.0	2.44	78.0	3.53
3.5	0.14	28.5	1.32	53.5	2.46	78.5	3.55
4.0	0.17	29.0	1.35	54.0	2.48	79.0	3.57
4.5	0.19	29.5	1.37	54.5	2.50	79.5	3.59
5.0	0.22	30.0	1.39	55.0	2.52	80.0	3.61
5.5	0.24	30.5	1.42	55.5	2.55	80.5	3.63
6.0	0.26	31.0	1.44	56.0	2.57	81.0	3.66
6.5	0.29	31.5	1.46	56.5	2.59	81.5	3.68
7.0	0.31	32.0	1.49	57.0	2.61	82.0	3.70
7.5	0.34	32.5	1.51	57.5	2.64	82.5	3.72
8.0	0.36	33.0	1.53	58.0	2.66	83.0	3.74
8.5	0.38	33.5	1.55	58.5	2.68	83.5	3.76
9.0	0.41	34.0	1.58	59.0	2.70	84.0	3.78
9.5	0.43	34.5	1.60	59.5	2.72	84.5	3.80
10.0	0.46	35.0	1.62	60.0	2.75	85.0	3.83
10.5	0.48	35.5	1.65	60.5	2.77	85.5	3.85
11.0	0.50	36.0	1.67	61.0	2.79	86.0	3.87
11.5	0.53	36.5	1.69	61.5	2.81	86.5	3.89
12.0	0.55	37.0	1.71	62.0	2.83	87.0	3.91
12.5	0.57	37.5	1.74	62.5	2.86	87.5	3.93
13.0	0.60	38.0	1.76	63.0	2.88	88.0	3.95
13.5	0.62	38.5	1.78	63.5	2.90	88.5	3.97
14.0	0.65	39.0	1.81	64.0	2.92	89.0	3.99
14.5	0.67	39.5	1.83	64.5	2.94	89.5	4.01
15.0	0.69	40.0	1.85	65.0	2.96	90.0	4.04
15.5	0.72	40.5	1.87	65.5	2.99	90.5	4.06
16.0	0.74	41.0	1.90	66.0	3.01	91.0	4.08
16.5	0.76	41.5	1.92	66.5	3.03	91.5	4.10
17.0	0.79	42.0	1.94	67.0	3.05	92.0	4.12
17.5	0.81	42.5	1.96	67.5	3.07	92.5	4.14
18.0	0.83	43.0	1.99	68.0	3.10	93.0	4.16
18.5	0.86	43.5	2.01	68.5	3.12	93.5	4.18
19.0	0.88	44.0	2.03	69.0	3.14	94.0	4.20
19.5	0.90	44.5	2.05	69.5	3.16	94.5	4.22
20.0	0.93	45.0	2.08	70.0	3.18	95.0	4.24
20.5	0.95	45.5	2.10	70.5	3.20	95.5	4.27
21.0	0.97	46.0	2.12	71.0	3.23	96.0	4.29
21.5	1.00	46.5	2.14	71.5	3.25	96.5	4.31
22.0	1.02	47.0	2.17	72.0	3.27	97.0	4.33
22.5	1.04	47.5	2.19	72.5	3.29	97.5	4.35
23.0	1.07	48.0	2.21	73.0	3.31	98.0	4.37
23.5	1.09	48.5	2.23	73.5	3.33	98.5	4.39
24.0	1.11	49.0	2.26	74.0	3.36	99.0	4.41
24.5	1.14	49.5	2.28	74.5	3.38	99.5	4.43
25.0	1.16	50.0	2.30	75.0	3.40	100.0	4.45

Temperature, °C - 6.0								
atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.47	125.5		5.48	150.5		6.46
101.0		4.49	126.0		5.50	151.0		6.48
101.5		4.51	126.5		5.52	151.5		6.49
102.0		4.53	127.0		5.54	152.0		6.51
102.5		4.56	127.5		5.56	152.5		6.53
103.0		4.58	128.0		5.58	153.0		6.55
103.5		4.60	128.5		5.60	153.5		6.57
104.0		4.62	129.0		5.62	154.0		6.59
104.5		4.64	129.5		5.64	154.5		6.61
105.0		4.66	130.0		5.66	155.0		6.63
105.5		4.68	130.5		5.68	155.5		6.65
106.0		4.70	131.0		5.70	156.0		6.66
106.5		4.72	131.5		5.72	156.5		6.68
107.0		4.74	132.0		5.74	157.0		6.70
107.5		4.76	132.5		5.76	157.5		6.72
108.0		4.78	133.0		5.78	158.0		6.74
108.5		4.80	133.5		5.80	158.5		6.76
109.0		4.82	134.0		5.82	159.0		6.78
109.5		4.84	134.5		5.84	159.5		6.80
110.0		4.86	135.0		5.86	160.0		6.82
110.5		4.88	135.5		5.88	160.5		6.83
111.0		4.90	136.0		5.90	161.0		6.85
111.5		4.92	136.5		5.92	161.5		6.87
112.0		4.94	137.0		5.94	162.0		6.89
112.5		4.96	137.5		5.96	162.5		6.91
113.0		4.98	138.0		5.98	163.0		6.93
113.5		5.00	138.5		5.99	163.5		6.95
114.0		5.02	139.0		6.01	164.0		6.96
114.5		5.04	139.5		6.03	164.5		6.98
115.0		5.06	140.0		6.05	165.0		7.00
115.5		5.08	140.5		6.07	165.5		7.02
116.0		5.11	141.0		6.09	166.0		7.04
116.5		5.13	141.5		6.11	166.5		7.06
117.0		5.15	142.0		6.13	167.0		7.08
117.5		5.17	142.5		6.15	167.5		7.09
118.0		5.19	143.0		6.17	168.0		7.11
118.5		5.21	143.5		6.19	168.5		7.13
119.0		5.23	144.0		6.21	169.0		7.15
119.5		5.25	144.5		6.23	169.5		7.17
120.0		5.27	145.0		6.25	170.0		7.19
120.5		5.29	145.5		6.27	170.5		7.21
121.0		5.31	146.0		6.28	171.0		7.22
121.5		5.33	146.5		6.30	171.5		7.24
122.0		5.35	147.0		6.32	172.0		7.26
122.5		5.37	147.5		6.34	172.5		7.28
123.0		5.39	148.0		6.36	173.0		7.30
123.5		5.41	148.5		6.38	173.5		7.32
124.0		5.43	149.0		6.40	174.0		7.33
124.5		5.45	149.5		6.42	174.5		7.35
125.0		5.46	150.0		6.44	175.0		7.37
175.5		7.39	176.0		7.41	176.5		7.43
177.0		7.44	177.5		7.46	178.0		7.48
178.5		7.50	179.0		7.52	179.5		7.53
180.0		7.55	180.5		7.57	181.0		7.59
181.5		7.61	182.0		7.62	182.5		7.64
183.0		7.66	183.5		7.68	184.0		7.70
184.5		7.72	185.0		7.73	185.5		7.75
186.0		7.77	186.5		7.79	187.0		7.80
187.5		7.82	188.0		7.84	188.5		7.86
189.0		7.88	189.5		7.89	190.0		7.91
190.5		7.93	191.0		7.95	191.5		7.97
192.0		7.98	192.5		8.00	193.0		8.02
193.5		8.04	194.0		8.05	194.5		8.07
195.0		8.09	195.5		8.11	196.0		8.13
196.5		8.14	197.0		8.16	197.5		8.18
198.0		8.20	198.5		8.21	199.0		8.23
199.5		8.25	200.0		8.27			

Temperature, °F

21.2

				Temperature, °C = 5.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.18		50.5		2.32		75.5		3.41	
1.0		0.02		26.0		1.20		51.0		2.34		76.0		3.43	
1.5		0.05		26.5		1.23		51.5		2.36		76.5		3.45	
2.0		0.07		27.0		1.25		52.0		2.38		77.0		3.47	
2.5		0.10		27.5		1.27		52.5		2.40		77.5		3.49	
3.0		0.12		28.0		1.30		53.0		2.43		78.0		3.51	
3.5		0.14		28.5		1.32		53.5		2.45		78.5		3.54	
4.0		0.17		29.0		1.34		54.0		2.47		79.0		3.56	
4.5		0.19		29.5		1.36		54.5		2.49		79.5		3.58	
5.0		0.22		30.0		1.39		55.0		2.52		80.0		3.60	
5.5		0.24		30.5		1.41		55.5		2.54		80.5		3.62	
6.0		0.26		31.0		1.43		56.0		2.56		81.0		3.64	
6.5		0.29		31.5		1.46		56.5		2.58		81.5		3.66	
7.0		0.31		32.0		1.48		57.0		2.60		82.0		3.68	
7.5		0.34		32.5		1.50		57.5		2.63		82.5		3.70	
8.0		0.36		33.0		1.53		58.0		2.65		83.0		3.73	
8.5		0.38		33.5		1.55		58.5		2.67		83.5		3.75	
9.0		0.41		34.0		1.57		59.0		2.69		84.0		3.77	
9.5		0.43		34.5		1.59		59.5		2.71		84.5		3.79	
10.0		0.45		35.0		1.62		60.0		2.74		85.0		3.81	
10.5		0.48		35.5		1.64		60.5		2.76		85.5		3.83	
11.0		0.50		36.0		1.66		61.0		2.78		86.0		3.85	
11.5		0.52		36.5		1.69		61.5		2.80		86.5		3.87	
12.0		0.55		37.0		1.71		62.0		2.82		87.0		3.89	
12.5		0.57		37.5		1.73		62.5		2.84		87.5		3.92	
13.0		0.60		38.0		1.75		63.0		2.87		88.0		3.94	
13.5		0.62		38.5		1.78		63.5		2.89		88.5		3.96	
14.0		0.64		39.0		1.80		64.0		2.91		89.0		3.98	
14.5		0.67		39.5		1.82		64.5		2.93		89.5		4.00	
15.0		0.69		40.0		1.84		65.0		2.95		90.0		4.02	
15.5		0.71		40.5		1.87		65.5		2.98		90.5		4.04	
16.0		0.74		41.0		1.89		66.0		3.00		91.0		4.06	
16.5		0.76		41.5		1.91		66.5		3.02		91.5		4.08	
17.0		0.78		42.0		1.93		67.0		3.04		92.0		4.10	
17.5		0.81		42.5		1.96		67.5		3.06		92.5		4.12	
18.0		0.83		43.0		1.98		68.0		3.08		93.0		4.15	
18.5		0.85		43.5		2.00		68.5		3.11		93.5		4.17	
19.0		0.88		44.0		2.02		69.0		3.13		94.0		4.19	
19.5		0.90		44.5		2.05		69.5		3.15		94.5		4.21	
20.0		0.92		45.0		2.07		70.0		3.17		95.0		4.23	
20.5		0.95		45.5		2.09		70.5		3.19		95.5		4.25	
21.0		0.97		46.0		2.11		71.0		3.21		96.0		4.27	
21.5		0.99		46.5		2.14		71.5		3.24		96.5		4.29	
22.0		1.02		47.0		2.16		72.0		3.26		97.0		4.31	
22.5		1.04		47.5		2.18		72.5		3.28		97.5		4.33	
23.0		1.06		48.0		2.20		73.0		3.30		98.0		4.35	
23.5		1.09		48.5		2.23		73.5		3.32		98.5		4.37	
24.0		1.11		49.0		2.25		74.0		3.34		99.0		4.39	
24.5		1.13		49.5		2.27		74.5		3.36		99.5		4.41	
25.0		1.16		50.0		2.29		75.0		3.39		100.0		4.44	

Temperature, °C

- 5.0

atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.46	125.5		5.46	150.5		6.43	175.5		7.36
101.0		4.48	126.0		5.48	151.0		6.45	176.0		7.38
101.5		4.50	126.5		5.50	151.5		6.47	176.5		7.40
102.0		4.52	127.0		5.52	152.0		6.49	177.0		7.42
102.5		4.54	127.5		5.54	152.5		6.51	177.5		7.43
103.0		4.56	128.0		5.56	153.0		6.53	178.0		7.45
103.5		4.58	128.5		5.58	153.5		6.55	178.5		7.47
104.0		4.60	129.0		5.60	154.0		6.56	179.0		7.49
104.5		4.62	129.5		5.62	154.5		6.58	179.5		7.51
105.0		4.64	130.0		5.64	155.0		6.60	180.0		7.52
105.5		4.66	130.5		5.66	155.5		6.62	180.5		7.54
106.0		4.68	131.0		5.68	156.0		6.64	181.0		7.56
106.5		4.70	131.5		5.70	156.5		6.66	181.5		7.58
107.0		4.72	132.0		5.72	157.0		6.68	182.0		7.60
107.5		4.74	132.5		5.74	157.5		6.70	182.5		7.61
108.0		4.76	133.0		5.76	158.0		6.71	183.0		7.63
108.5		4.78	133.5		5.78	158.5		6.73	183.5		7.65
109.0		4.80	134.0		5.80	159.0		6.75	184.0		7.67
109.5		4.82	134.5		5.82	159.5		6.77	184.5		7.69
110.0		4.84	135.0		5.84	160.0		6.79	185.0		7.70
110.5		4.86	135.5		5.86	160.5		6.81	185.5		7.72
111.0		4.88	136.0		5.88	161.0		6.83	186.0		7.74
111.5		4.90	136.5		5.89	161.5		6.85	186.5		7.76
112.0		4.92	137.0		5.91	162.0		6.86	187.0		7.78
112.5		4.95	137.5		5.93	162.5		6.88	187.5		7.79
113.0		4.97	138.0		5.95	163.0		6.90	188.0		7.81
113.5		4.99	138.5		5.97	163.5		6.92	188.5		7.83
114.0		5.01	139.0		5.99	164.0		6.94	189.0		7.85
114.5		5.03	139.5		6.01	164.5		6.96	189.5		7.87
115.0		5.05	140.0		6.03	165.0		6.98	190.0		7.88
115.5		5.07	140.5		6.05	165.5		6.99	190.5		7.90
116.0		5.09	141.0		6.07	166.0		7.01	191.0		7.92
116.5		5.11	141.5		6.09	166.5		7.03	191.5		7.94
117.0		5.13	142.0		6.11	167.0		7.05	192.0		7.95
117.5		5.15	142.5		6.13	167.5		7.07	192.5		7.97
118.0		5.17	143.0		6.15	168.0		7.09	193.0		7.99
118.5		5.19	143.5		6.17	168.5		7.10	193.5		8.01
119.0		5.21	144.0		6.18	169.0		7.12	194.0		8.02
119.5		5.23	144.5		6.20	169.5		7.14	194.5		8.04
120.0		5.25	145.0		6.22	170.0		7.16	195.0		8.06
120.5		5.27	145.5		6.24	170.5		7.18	195.5		8.08
121.0		5.29	146.0		6.26	171.0		7.20	196.0		8.10
121.5		5.31	146.5		6.28	171.5		7.22	196.5		8.11
122.0		5.33	147.0		6.30	172.0		7.23	197.0		8.13
122.5		5.35	147.5		6.32	172.5		7.25	197.5		8.15
123.0		5.37	148.0		6.34	173.0		7.27	198.0		8.17
123.5		5.38	148.5		6.36	173.5		7.29	198.5		8.18
124.0		5.40	149.0		6.38	174.0		7.31	199.0		8.20
124.5		5.42	149.5		6.39	174.5		7.32	199.5		8.22
125.0		5.44	150.0		6.41	175.0		7.34	200.0		8.24

Temperature, °F

23.0

- 4.0

Temperature, °C									
atü	-	kg	atü	-	kg	atü	-	kg	
0.5	0.00		25.5	1.18		50.5	2.31	75.5	3.39
1.0	0.02		26.0	1.20		51.0	2.33	76.0	3.42
1.5	0.05		26.5	1.22		51.5	2.35	76.5	3.44
2.0	0.07		27.0	1.24		52.0	2.37	77.0	3.46
2.5	0.10		27.5	1.27		52.5	2.40	77.5	3.48
3.0	0.12		28.0	1.29		53.0	2.42	78.0	3.50
3.5	0.14		28.5	1.31		53.5	2.44	78.5	3.52
4.0	0.17		29.0	1.34		54.0	2.46	79.0	3.54
4.5	0.19		29.5	1.36		54.5	2.48	79.5	3.56
5.0	0.21		30.0	1.38		55.0	2.51	80.0	3.59
5.5	0.24		30.5	1.41		55.5	2.53	80.5	3.61
6.0	0.26		31.0	1.43		56.0	2.55	81.0	3.63
6.5	0.29		31.5	1.45		56.5	2.57	81.5	3.65
7.0	0.31		32.0	1.47		57.0	2.59	82.0	3.67
7.5	0.33		32.5	1.50		57.5	2.62	82.5	3.69
8.0	0.36		33.0	1.52		58.0	2.64	83.0	3.71
8.5	0.38		33.5	1.54		58.5	2.66	83.5	3.73
9.0	0.40		34.0	.57		59.0	2.68	84.0	3.75
9.5	0.43		34.5	1.59		59.5	2.70	84.5	3.78
10.0	0.45		35.0	1.61		60.0	2.72	85.0	3.80
10.5	0.48		35.5	1.63		60.5	2.75	85.5	3.82
11.0	0.50		36.0	1.66		61.0	2.77	86.0	3.84
11.5	0.52		36.5	1.68		61.5	2.79	86.5	3.86
12.0	0.55		37.0	1.70		62.0	2.81	87.0	3.88
12.5	0.57		37.5	1.72		62.5	2.83	87.5	3.90
13.0	0.59		38.0	1.75		63.0	2.86	88.0	3.92
13.5	0.62		38.5	1.77		63.5	2.88	88.5	3.94
14.0	0.64		39.0	1.79		64.0	2.90	89.0	3.96
14.5	0.66		39.5	1.81		64.5	2.92	89.5	3.98
15.0	0.69		40.0	1.84		65.0	2.94	90.0	4.01
15.5	0.71		40.5	1.86		65.5	2.96	90.5	4.03
16.0	0.73		41.0	1.88		66.0	2.99	91.0	4.05
16.5	0.76		41.5	1.90		66.5	3.01	91.5	4.07
17.0	0.78		42.0	1.93		67.0	3.03	92.0	4.09
17.5	0.80		42.5	1.95		67.5	3.05	92.5	4.11
18.0	0.83		43.0	1.97		68.0	3.07	93.0	4.13
18.5	0.85		43.5	1.99		68.5	3.09	93.5	4.15
19.0	0.87		44.0	2.02		69.0	3.12	94.0	4.17
19.5	0.90		44.5	2.04		69.5	3.14	94.5	4.19
20.0	0.92		45.0	2.06		70.0	3.16	95.0	4.21
20.5	0.94		45.5	2.08		70.5	3.18	95.5	4.23
21.0	0.97		46.0	2.11		71.0	3.20	96.0	4.25
21.5	0.99		46.5	2.13		71.5	3.22	96.5	4.27
22.0	1.01		47.0	2.15		72.0	3.24	97.0	4.30
22.5	1.04		47.5	2.17		72.5	3.27	97.5	4.32
23.0	1.06		48.0	2.20		73.0	3.29	98.0	4.34
23.5	1.08		48.5	2.22		73.5	3.31	98.5	4.36
24.0	1.11		49.0	2.24		74.0	3.33	99.0	4.38
24.5	1.13		49.5	2.26		74.5	3.35	99.5	4.40
25.0	1.15		50.0	2.28		75.0	3.37	100.0	4.42

Temperature, °F

24.8

				Temperature, °C											
				- 4.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.44		125.5		5.44		150.5		6.41		175.5		7.33	
101.0		4.46		126.0		5.46		151.0		6.43		176.0		7.35	
101.5		4.48		126.5		5.48		151.5		6.45		176.5		7.37	
102.0		4.50		127.0		5.50		152.0		6.46		177.0		7.39	
102.5		4.52		127.5		5.52		152.5		6.48		177.5		7.41	
103.0		4.54		128.0		5.54		153.0		6.50		178.0		7.42	
103.5		4.56		128.5		5.56		153.5		6.52		178.5		7.44	
104.0		4.58		129.0		5.58		154.0		6.54		179.0		7.46	
104.5		4.60		129.5		5.60		154.5		6.56		179.5		7.48	
105.0		4.62		130.0		5.62		155.0		6.58		180.0		7.50	
105.5		4.64		130.5		5.64		155.5		6.60		180.5		7.51	
106.0		4.66		131.0		5.66		156.0		6.62		181.0		7.53	
106.5		4.68		131.5		5.68		156.5		6.63		181.5		7.55	
107.0		4.70		132.0		5.70		157.0		6.65		182.0		7.57	
107.5		4.72		132.5		5.72		157.5		6.67		182.5		7.59	
108.0		4.74		133.0		5.74		158.0		6.69		183.0		7.60	
108.5		4.77		133.5		5.76		158.5		6.71		183.5		7.62	
109.0		4.79		134.0		5.78		159.0		6.73		184.0		7.64	
109.5		4.81		134.5		5.80		159.5		6.75		184.5		7.66	
110.0		4.83		135.0		5.81		160.0		6.76		185.0		7.68	
110.5		4.85		135.5		5.83		160.5		6.78		185.5		7.69	
111.0		4.87		136.0		5.85		161.0		6.80		186.0		7.71	
111.5		4.89		136.5		5.87		161.5		6.82		186.5		7.73	
112.0		4.91		137.0		5.89		162.0		6.84		187.0		7.75	
112.5		4.93		137.5		5.91		162.5		6.86		187.5		7.77	
113.0		4.95		138.0		5.93		163.0		6.88		188.0		7.78	
113.5		4.97		138.5		5.95		163.5		6.89		188.5		7.80	
114.0		4.99		139.0		5.97		164.0		6.91		189.0		7.82	
114.5		5.01		139.5		5.99		164.5		6.93		189.5		7.84	
115.0		5.03		140.0		6.01		165.0		6.95		190.0		7.85	
115.5		5.05		140.5		6.03		165.5		6.97		190.5		7.87	
116.0		5.07		141.0		6.05		166.0		6.99		191.0		7.89	
116.5		5.09		141.5		6.07		166.5		7.01		191.5		7.91	
117.0		5.11		142.0		6.08		167.0		7.02		192.0		7.92	
117.5		5.13		142.5		6.10		167.5		7.04		192.5		7.94	
118.0		5.15		143.0		6.12		168.0		7.06		193.0		7.96	
118.5		5.17		143.5		6.14		168.5		7.08		193.5		7.98	
119.0		5.19		144.0		6.16		169.0		7.10		194.0		8.00	
119.5		5.21		144.5		6.18		169.5		7.12		194.5		8.01	
120.0		5.23		145.0		6.20		170.0		7.13		195.0		8.03	
120.5		5.25		145.5		6.22		170.5		7.15		195.5		8.05	
121.0		5.27		146.0		6.24		171.0		7.17		196.0		8.07	
121.5		5.29		146.5		6.26		171.5		7.19		196.5		8.08	
122.0		5.31		147.0		6.28		172.0		7.21		197.0		8.10	
122.5		5.33		147.5		6.29		172.5		7.23		197.5		8.12	
123.0		5.35		148.0		6.31		173.0		7.24		198.0		8.14	
123.5		5.36		148.5		6.33		173.5		7.26		198.5		8.15	
124.0		5.38		149.0		6.35		174.0		7.28		199.0		8.17	
124.5		5.40		149.5		6.37		174.5		7.30		199.5		8.19	
125.0		5.42		150.0		6.39		175.0		7.32		200.0		8.21	

Temperature, °F

24.8

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.17	50.5	2.30	75.5	3.38
1.0	0.02	26.0	1.19	51.0	2.32	76.0	3.40
1.5	0.05	26.5	1.22	51.5	2.34	76.5	3.42
2.0	0.07	27.0	1.24	52.0	2.36	77.0	3.44
2.5	0.10	27.5	1.26	52.5	2.39	77.5	3.47
3.0	0.12	28.0	1.29	53.0	2.41	78.0	3.49
3.5	0.14	28.5	1.31	53.5	2.43	78.5	3.51
4.0	0.17	29.0	1.33	54.0	2.45	79.0	3.53
4.5	0.19	29.5	1.35	54.5	2.47	79.5	3.55
5.0	0.21	30.0	1.38	55.0	2.50	80.0	3.57
5.5	0.24	30.5	1.40	55.5	2.52	80.5	3.59
6.0	0.26	31.0	1.42	56.0	2.54	81.0	3.61
6.5	0.29	31.5	1.45	56.5	2.56	81.5	3.63
7.0	0.31	32.0	1.47	57.0	2.58	82.0	3.66
7.5	0.33	32.5	1.49	57.5	2.61	82.5	3.68
8.0	0.36	33.0	1.51	58.0	2.63	83.0	3.70
8.5	0.38	33.5	1.54	58.5	2.65	83.5	3.72
9.0	0.40	34.0	1.56	59.0	2.67	84.0	3.74
9.5	0.43	34.5	1.58	59.5	2.69	84.5	3.76
10.0	0.45	35.0	1.60	60.0	2.71	85.0	3.78
10.5	0.47	35.5	1.63	60.5	2.74	85.5	3.80
11.0	0.50	36.0	1.65	61.0	2.76	86.0	3.82
11.5	0.52	36.5	1.67	61.5	2.78	86.5	3.84
12.0	0.54	37.0	1.69	62.0	2.80	87.0	3.87
12.5	0.57	37.5	1.72	62.5	2.82	87.5	3.89
13.0	0.59	38.0	1.74	63.0	2.84	88.0	3.91
13.5	0.61	38.5	1.76	63.5	2.87	88.5	3.93
14.0	0.64	39.0	1.78	64.0	2.89	89.0	3.95
14.5	0.66	39.5	1.81	64.5	2.91	89.5	3.97
15.0	0.68	40.0	1.83	65.0	2.93	90.0	3.99
15.5	0.71	40.5	1.85	65.5	2.95	90.5	4.01
16.0	0.73	41.0	1.87	66.0	2.97	91.0	4.03
16.5	0.75	41.5	1.90	66.5	3.00	91.5	4.05
17.0	0.78	42.0	1.92	67.0	3.02	92.0	4.07
17.5	0.80	42.5	1.94	67.5	3.04	92.5	4.09
18.0	0.82	43.0	1.96	68.0	3.06	93.0	4.11
18.5	0.85	43.5	1.99	68.5	3.08	93.5	4.14
19.0	0.87	44.0	2.01	69.0	3.10	94.0	4.16
19.5	0.89	44.5	2.03	69.5	3.13	94.5	4.18
20.0	0.92	45.0	2.05	70.0	3.15	95.0	4.20
20.5	0.94	45.5	2.08	70.5	3.17	95.5	4.22
21.0	0.96	46.0	2.10	71.0	3.19	96.0	4.24
21.5	0.99	46.5	2.12	71.5	3.21	96.5	4.26
22.0	1.01	47.0	2.14	72.0	3.23	97.0	4.28
22.5	1.03	47.5	2.16	72.5	3.25	97.5	4.30
23.0	1.06	48.0	2.19	73.0	3.27	98.0	4.32
23.5	1.08	48.5	2.21	73.5	3.30	98.5	4.34
24.0	1.10	49.0	2.23	74.0	3.32	99.0	4.36
24.5	1.13	49.5	2.25	74.5	3.34	99.5	4.38
25.0	1.15	50.0	2.28	75.0	3.36	100.0	4.40

Temperature, °C - 3.0

atü	kg	atü	kg	atü	kg	atü	kg
100.5	4.42	125.5	5.42	150.5	6.38	175.5	7.31
101.0	4.44	126.0	5.44	151.0	6.40	176.0	7.33
101.5	4.46	126.5	5.46	151.5	6.42	176.5	7.34
102.0	4.48	127.0	5.48	152.0	6.44	177.0	7.36
102.5	4.50	127.5	5.50	152.5	6.46	177.5	7.38
103.0	4.52	128.0	5.52	153.0	6.48	178.0	7.40
103.5	4.54	128.5	5.54	153.5	6.50	178.5	7.42
104.0	4.57	129.0	5.56	154.0	6.52	179.0	7.43
104.5	4.59	129.5	5.58	154.5	6.53	179.5	7.45
105.0	4.61	130.0	5.60	155.0	6.55	180.0	7.47
105.5	4.63	130.5	5.62	155.5	6.57	180.5	7.49
106.0	4.65	131.0	5.64	156.0	6.59	181.0	7.51
106.5	4.67	131.5	5.66	156.5	6.61	181.5	7.52
107.0	4.69	132.0	5.68	157.0	6.63	182.0	7.54
107.5	4.71	132.5	5.70	157.5	6.65	182.5	7.56
108.0	4.73	133.0	5.72	158.0	6.67	183.0	7.58
108.5	4.75	133.5	5.74	158.5	6.68	183.5	7.59
109.0	4.77	134.0	5.75	159.0	6.70	184.0	7.61
109.5	4.79	134.5	5.77	159.5	6.72	184.5	7.63
110.0	4.81	135.0	5.79	160.0	6.74	185.0	7.65
110.5	4.83	135.5	5.81	160.5	6.76	185.5	7.67
111.0	4.85	136.0	5.83	161.0	6.78	186.0	7.68
111.5	4.87	136.5	5.85	161.5	6.80	186.5	7.70
112.0	4.89	137.0	5.87	162.0	6.81	187.0	7.72
112.5	4.91	137.5	5.89	162.5	6.83	187.5	7.74
113.0	4.93	138.0	5.91	163.0	6.85	188.0	7.75
113.5	4.95	138.5	5.93	163.5	6.87	188.5	7.77
114.0	4.97	139.0	5.95	164.0	6.89	189.0	7.79
114.5	4.99	139.5	5.97	164.5	6.91	189.5	7.81
115.0	5.01	140.0	5.99	165.0	6.92	190.0	7.83
115.5	5.03	140.5	6.00	165.5	6.94	190.5	7.84
116.0	5.05	141.0	6.02	166.0	6.96	191.0	7.86
116.5	5.07	141.5	6.04	166.5	6.98	191.5	7.88
117.0	5.09	142.0	6.06	167.0	7.00	192.0	7.90
117.5	5.11	142.5	6.08	167.5	7.02	192.5	7.91
118.0	5.13	143.0	6.10	168.0	7.03	193.0	7.93
118.5	5.15	143.5	6.12	168.5	7.05	193.5	7.95
119.0	5.17	144.0	6.14	169.0	7.07	194.0	7.97
119.5	5.19	144.5	6.16	169.5	7.09	194.5	7.98
120.0	5.21	145.0	6.18	170.0	7.11	195.0	8.00
120.5	5.23	145.5	6.20	170.5	7.13	195.5	8.02
121.0	5.25	146.0	6.21	171.0	7.14	196.0	8.04
121.5	5.27	146.5	6.23	171.5	7.16	196.5	8.05
122.0	5.29	147.0	6.25	172.0	7.18	197.0	8.07
122.5	5.31	147.5	6.27	172.5	7.20	197.5	8.09
123.0	5.33	148.0	6.29	173.0	7.22	198.0	8.11
123.5	5.34	148.5	6.31	173.5	7.23	198.5	8.12
124.0	5.36	149.0	6.33	174.0	7.25	199.0	8.14
124.5	5.38	149.5	6.35	174.5	7.27	199.5	8.16
125.0	5.40	150.0	6.37	175.0	7.29	200.0	8.18

Temperature, °F 26.6

Temperature, °C								
atü	-	kg	atü	-	kg	atü	-	kg
0.5	0.00		25.5	1.17		50.5	2.29	
1.0	0.02		26.0	1.19		51.0	2.31	75.5
1.5	0.05		26.5	1.21		51.5	2.33	76.0
2.0	0.07		27.0	1.24		52.0	2.36	76.5
2.5	0.09		27.5	1.26		52.5	2.38	77.0
								77.5
3.0	0.12		28.0	1.28	53.0	2.40		78.0
3.5	0.14		28.5	1.30	53.5	2.42		78.5
4.0	0.17		29.0	1.33	54.0	2.44		79.0
4.5	0.19		29.5	1.35	54.5	2.46		79.5
5.0	0.21		30.0	1.37	55.0	2.49		80.0
5.5	0.24		30.5	1.39	55.5	2.51		80.5
6.0	0.26		31.0	1.42	56.0	2.53		81.0
6.5	0.28		31.5	1.44	56.5	2.55		81.5
7.0	0.31		32.0	1.46	57.0	2.57		82.0
7.5	0.33		32.5	1.49	57.5	2.60		82.5
8.0	0.35		33.0	1.51	58.0	2.62		83.0
8.5	0.38		33.5	1.53	58.5	2.64		83.5
9.0	0.40		34.0	1.55	59.0	2.66		84.0
9.5	0.43		34.5	1.58	59.5	2.68		84.5
10.0	0.45		35.0	1.60	60.0	2.70		85.0
10.5	0.47		35.5	1.62	60.5	2.73		85.5
11.0	0.50		36.0	1.64	61.0	2.75		86.0
11.5	0.52		36.5	1.67	61.5	2.77		86.5
12.0	0.54		37.0	1.69	62.0	2.79		87.0
12.5	0.57		37.5	1.71	62.5	2.81		87.5
13.0	0.59		38.0	1.73	63.0	2.83		88.0
13.5	0.61		38.5	1.76	63.5	2.86		88.5
14.0	0.64		39.0	1.78	64.0	2.88		89.0
14.5	0.66		39.5	1.80	64.5	2.90		89.5
15.0	0.68		40.0	1.82	65.0	2.92		90.0
15.5	0.71		40.5	1.85	65.5	2.94		90.5
16.0	0.73		41.0	1.87	66.0	2.96		91.0
16.5	0.75		41.5	1.89	66.5	2.98		91.5
17.0	0.78		42.0	1.91	67.0	3.01		92.0
17.5	0.80		42.5	1.93	67.5	3.03		92.5
18.0	0.82		43.0	1.96	68.0	3.05		93.0
18.5	0.84		43.5	1.98	68.5	3.07		93.5
19.0	0.87		44.0	2.00	69.0	3.09		94.0
19.5	0.89		44.5	2.02	69.5	3.11		94.5
20.0	0.91		45.0	2.05	70.0	3.13		95.0
20.5	0.94		45.5	2.07	70.5	3.16		95.5
21.0	0.96		46.0	2.09	71.0	3.18		96.0
21.5	0.98		46.5	2.11	71.5	3.20		96.5
22.0	1.01		47.0	2.13	72.0	3.22		97.0
22.5	1.03		47.5	2.16	72.5	3.24		97.5
23.0	1.05		48.0	2.18	73.0	3.26		98.0
23.5	1.08		48.5	2.20	73.5	3.28		98.5
24.0	1.10		49.0	2.22	74.0	3.30		99.0
24.5	1.12		49.5	2.25	74.5	3.33		99.5
25.0	1.14		50.0	2.27	75.0	3.35		100.0

				Temperature, °C											
				- 2.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5	4.41			125.5	5.40			150.5	6.36			175.5	7.28		
101.0	4.43			126.0	5.42			151.0	6.38			176.0	7.30		
101.5	4.45			126.5	5.44			151.5	6.40			176.5	7.32		
102.0	4.47			127.0	5.46			152.0	6.42			177.0	7.33		
102.5	4.49			127.5	5.48			152.5	6.44			177.5	7.35		
103.0	4.51			128.0	5.50			153.0	6.45			178.0	7.37		
103.5	4.53			128.5	5.52			153.5	6.47			178.5	7.39		
104.0	4.55			129.0	5.54			154.0	6.49			179.0	7.41		
104.5	4.57			129.5	5.56			154.5	6.51			179.5	7.42		
105.0	4.59			130.0	5.58			155.0	6.53			180.0	7.44		
105.5	4.61			130.5	5.60			155.5	6.55			180.5	7.46		
106.0	4.63			131.0	5.62			156.0	6.57			181.0	7.48		
106.5	4.65			131.5	5.64			156.5	6.58			181.5	7.50		
107.0	4.67			132.0	5.66			157.0	6.60			182.0	7.51		
107.5	4.69			132.5	5.68			157.5	6.62			182.5	7.53		
108.0	4.71			133.0	5.69			158.0	6.64			183.0	7.55		
108.5	4.73			133.5	5.71			158.5	6.66			183.5	7.57		
109.0	4.75			134.0	5.73			159.0	6.68			184.0	7.58		
109.5	4.77			134.5	5.75			159.5	6.70			184.5	7.60		
110.0	4.79			135.0	5.77			160.0	6.71			185.0	7.62		
110.5	4.81			135.5	5.79			160.5	6.73			185.5	7.64		
111.0	4.83			136.0	5.81			161.0	6.75			186.0	7.66		
111.5	4.85			136.5	5.83			161.5	6.77			186.5	7.67		
112.0	4.87			137.0	5.85			162.0	6.79			187.0	7.69		
112.5	4.89			137.5	5.87			162.5	6.81			187.5	7.71		
113.0	4.91			138.0	5.89			163.0	6.83			188.0	7.73		
113.5	4.93			138.5	5.91			163.5	6.84			188.5	7.74		
114.0	4.95			139.0	5.92			164.0	6.86			189.0	7.76		
114.5	4.97			139.5	5.94			164.5	6.88			189.5	7.78		
115.0	4.99			140.0	5.96			165.0	6.90			190.0	7.80		
115.5	5.01			140.5	5.98			165.5	6.92			190.5	7.81		
116.0	5.03			141.0	6.00			166.0	6.94			191.0	7.83		
116.5	5.05			141.5	6.02			166.5	6.95			191.5	7.85		
117.0	5.07			142.0	6.04			167.0	6.97			192.0	7.87		
117.5	5.09			142.5	6.06			167.5	6.99			192.5	7.88		
118.0	5.11			143.0	6.08			168.0	7.01			193.0	7.90		
118.5	5.13			143.5	6.10			168.5	7.03			193.5	7.92		
119.0	5.15			144.0	6.12			169.0	7.04			194.0	7.94		
119.5	5.17			144.5	6.13			169.5	7.06			194.5	7.95		
120.0	5.19			145.0	6.15			170.0	7.08			195.0	7.97		
120.5	5.21			145.5	6.17			170.5	7.10			195.5	7.99		
121.0	5.23			146.0	6.19			171.0	7.12			196.0	8.01		
121.5	5.25			146.5	6.21			171.5	7.14			196.5	8.02		
122.0	5.27			147.0	6.23			172.0	7.15			197.0	8.04		
122.5	5.29			147.5	6.25			172.5	7.17			197.5	8.06		
123.0	5.31			148.0	6.27			173.0	7.19			198.0	8.08		
123.5	5.32			148.5	6.29			173.5	7.21			198.5	8.09		
124.0	5.34			149.0	6.30			174.0	7.23			199.0	8.11		
124.5	5.36			149.5	6.32			174.5	7.24			199.5	8.13		
125.0	5.38			150.0	6.34			175.0	7.26			200.0	8.15		

Temperature, °F

28.4

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.16	50.5	2.28	75.5	3.36
1.0	0.02	26.0	1.19	51.0	2.30	76.0	3.38
1.5	0.05	26.5	1.21	51.5	2.32	76.5	3.40
2.0	0.07	27.0	1.23	52.0	2.35	77.0	3.42
2.5	0.09	27.5	1.25	52.5	2.37	77.5	3.44
3.0	0.12	28.0	1.28	53.0	2.39	78.0	3.46
3.5	0.14	28.5	1.30	53.5	2.41	78.5	3.48
4.0	0.17	29.0	1.32	54.0	2.43	79.0	3.50
4.5	0.19	29.5	1.34	54.5	2.46	79.5	3.52
5.0	0.21	30.0	1.37	55.0	2.48	80.0	3.54
5.5	0.24	30.5	1.39	55.5	2.50	80.5	3.57
6.0	0.26	31.0	1.41	56.0	2.52	81.0	3.59
6.5	0.28	31.5	1.43	56.5	2.54	81.5	3.61
7.0	0.31	32.0	1.46	57.0	2.56	82.0	3.63
7.5	0.33	32.5	1.48	57.5	2.59	82.5	3.65
8.0	0.35	33.0	1.50	58.0	2.61	83.0	3.67
8.5	0.38	33.5	1.52	58.5	2.63	83.5	3.69
9.0	0.40	34.0	1.55	59.0	2.65	84.0	3.71
9.5	0.42	34.5	1.57	59.5	2.67	84.5	3.73
10.0	0.45	35.0	1.59	60.0	2.69	85.0	3.75
10.5	0.47	35.5	1.61	60.5	2.72	85.5	3.77
11.0	0.49	36.0	1.64	61.0	2.74	86.0	3.79
11.5	0.52	36.5	1.66	61.5	2.76	86.5	3.82
12.0	0.54	37.0	1.68	62.0	2.78	87.0	3.84
12.5	0.56	37.5	1.70	62.5	2.80	87.5	3.86
13.0	0.59	38.0	1.73	63.0	2.82	88.0	3.88
13.5	0.61	38.5	1.75	63.5	2.84	88.5	3.90
14.0	0.63	39.0	1.77	64.0	2.87	89.0	3.92
14.5	0.66	39.5	1.79	64.5	2.89	89.5	3.94
15.0	0.68	40.0	1.82	65.0	2.91	90.0	3.96
15.5	0.70	40.5	1.84	65.5	2.93	90.5	3.98
16.0	0.73	41.0	1.86	66.0	2.95	91.0	4.00
16.5	0.75	41.5	1.88	66.5	2.97	91.5	4.02
17.0	0.77	42.0	1.91	67.0	2.99	92.0	4.04
17.5	0.80	42.5	1.93	67.5	3.02	92.5	4.06
18.0	0.82	43.0	1.95	68.0	3.04	93.0	4.08
18.5	0.84	43.5	1.97	68.5	3.06	93.5	4.10
19.0	0.86	44.0	1.99	69.0	3.08	94.0	4.12
19.5	0.89	44.5	2.02	69.5	3.10	94.5	4.15
20.0	0.91	45.0	2.04	70.0	3.12	95.0	4.17
20.5	0.93	45.5	2.06	70.5	3.14	95.5	4.19
21.0	0.96	46.0	2.08	71.0	3.17	96.0	4.21
21.5	0.98	46.5	2.10	71.5	3.19	96.5	4.23
22.0	1.00	47.0	2.13	72.0	3.21	97.0	4.25
22.5	1.03	47.5	2.15	72.5	3.23	97.5	4.27
23.0	1.05	48.0	2.17	73.0	3.25	98.0	4.29
23.5	1.07	48.5	2.19	73.5	3.27	98.5	4.31
24.0	1.09	49.0	2.21	74.0	3.29	99.0	4.33
24.5	1.12	49.5	2.24	74.5	3.31	99.5	4.35
25.0	1.14	50.0	2.26	75.0	3.33	100.0	4.37

Temperature, °C								
1.0								
atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.39	125.5		5.38	150.5		6.34
101.0		4.41	126.0		5.40	151.0		6.36
101.5		4.43	126.5		5.42	151.5		6.37
102.0		4.45	127.0		5.44	152.0		6.39
102.5		4.47	127.5		5.46	152.5		6.41
103.0		4.49	128.0		5.48	153.0		6.43
103.5		4.51	128.5		5.50	153.5		6.45
104.0		4.53	129.0		5.52	154.0		6.47
104.5		4.55	129.5		5.54	154.5		6.49
105.0		4.57	130.0		5.56	155.0		6.50
105.5		4.59	130.5		5.58	155.5		6.52
106.0		4.61	131.0		5.60	156.0		6.54
106.5		4.63	131.5		5.62	156.5		6.56
107.0		4.65	132.0		5.63	157.0		6.58
107.5		4.67	132.5		5.65	157.5		6.60
108.0		4.69	133.0		5.67	158.0		6.62
108.5		4.71	133.5		5.69	158.5		6.63
109.0		4.73	134.0		5.71	159.0		6.65
109.5		4.75	134.5		5.73	159.5		6.67
110.0		4.77	135.0		5.75	160.0		6.69
110.5		4.79	135.5		5.77	160.5		6.71
111.0		4.81	136.0		5.79	161.0		6.73
111.5		4.83	136.5		5.81	161.5		6.74
112.0		4.85	137.0		5.83	162.0		6.76
112.5		4.87	137.5		5.85	162.5		6.78
113.0		4.89	138.0		5.86	163.0		6.80
113.5		4.91	138.5		5.88	163.5		6.82
114.0		4.93	139.0		5.90	164.0		6.84
114.5		4.95	139.5		5.92	164.5		6.85
115.0		4.97	140.0		5.94	165.0		6.87
115.5		4.99	140.5		5.96	165.5		6.89
116.0		5.01	141.0		5.98	166.0		6.91
116.5		5.03	141.5		6.00	166.5		6.93
117.0		5.05	142.0		6.02	167.0		6.95
117.5		5.07	142.5		6.04	167.5		6.96
118.0		5.09	143.0		6.05	168.0		6.98
118.5		5.11	143.5		6.07	168.5		7.00
119.0		5.13	144.0		6.09	169.0		7.02
119.5		5.15	144.5		6.11	169.5		7.04
120.0		5.17	145.0		6.13	170.0		7.06
120.5		5.19	145.5		6.15	170.5		7.07
121.0		5.21	146.0		6.17	171.0		7.09
121.5		5.23	146.5		6.19	171.5		7.11
122.0		5.25	147.0		6.21	172.0		7.13
122.5		5.27	147.5		6.22	172.5		7.15
123.0		5.29	148.0		6.24	173.0		7.16
123.5		5.30	148.5		6.26	173.5		7.18
124.0		5.32	149.0		6.28	174.0		7.20
124.5		5.34	149.5		6.30	174.5		7.22
125.0		5.36	150.0		6.32	175.0		7.24
175.5		7.25				176.0		7.27
						176.5		7.29
						177.0		7.31
						177.5		7.33
						178.0		7.34
						178.5		7.36
						179.0		7.38
						179.5		7.40
						180.0		7.41
						180.5		7.43
						181.0		7.45
						181.5		7.47
						182.0		7.49
						182.5		7.50
						183.0		7.52
						183.5		7.54
						184.0		7.56
						184.5		7.57
						185.0		7.59
						185.5		7.61
						186.0		7.63
						186.5		7.64
						187.0		7.66
						187.5		7.68
						188.0		7.70
						188.5		7.72
						189.0		7.73
						189.5		7.75
						190.0		7.77
						190.5		7.79
						191.0		7.80
						191.5		7.82
						192.0		7.84
						192.5		7.86
						193.0		7.87
						193.5		7.89
						194.0		7.91
						194.5		7.93
						195.0		7.94
						195.5		7.96
						196.0		7.98
						196.5		7.99
						197.0		8.01
						197.5		8.03
						198.0		8.05
						198.5		8.06
						199.0		8.08
						199.5		8.10
						200.0		8.12

				Temperature, °C											
				0.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.16		50.5		2.27		75.5		3.34	
1.0		0.02		26.0		1.18		51.0		2.29		76.0		3.36	
1.5		0.05		26.5		1.20		51.5		2.32		76.5		3.39	
2.0		0.07		27.0		1.23		52.0		2.34		77.0		3.41	
2.5		0.09		27.5		1.25		52.5		2.36		77.5		3.43	
3.0		0.12		28.0		1.27		53.0		2.38		78.0		3.45	
3.5		0.14		28.5		1.29		53.5		2.40		78.5		3.47	
4.0		0.16		29.0		1.32		54.0		2.42		79.0		3.49	
4.5		0.19		29.5		1.34		54.5		2.45		79.5		3.51	
5.0		0.21		30.0		1.36		55.0		2.47		80.0		3.53	
5.5		0.24		30.5		1.38		55.5		2.49		80.5		3.55	
6.0		0.26		31.0		1.41		56.0		2.51		81.0		3.57	
6.5		0.28		31.5		1.43		56.5		2.53		81.5		3.59	
7.0		0.31		32.0		1.45		57.0		2.55		82.0		3.61	
7.5		0.33		32.5		1.47		57.5		2.58		82.5		3.64	
8.0		0.35		33.0		1.50		58.0		2.60		83.0		3.66	
8.5		0.38		33.5		1.52		58.5		2.62		83.5		3.68	
9.0		0.40		34.0		1.54		59.0		2.64		84.0		3.70	
9.5		0.42		34.5		1.56		59.5		2.66		84.5		3.72	
10.0		0.45		35.0		1.59		60.0		2.68		85.0		3.74	
10.5		0.47		35.5		1.61		60.5		2.71		85.5		3.76	
11.0		0.49		36.0		1.63		61.0		2.73		86.0		3.78	
11.5		0.51		36.5		1.65		61.5		2.75		86.5		3.80	
12.0		0.54		37.0		1.68		62.0		2.77		87.0		3.82	
12.5		0.56		37.5		1.70		62.5		2.79		87.5		3.84	
13.0		0.58		38.0		1.72		63.0		2.81		88.0		3.86	
13.5		0.61		38.5		1.74		63.5		2.83		88.5		3.88	
14.0		0.63		39.0		1.76		64.0		2.86		89.0		3.90	
14.5		0.65		39.5		1.79		64.5		2.88		89.5		3.92	
15.0		0.68		40.0		1.81		65.0		2.90		90.0		3.95	
15.5		0.70		40.5		1.83		65.5		2.92		90.5		3.97	
16.0		0.72		41.0		1.85		66.0		2.94		91.0		3.99	
16.5		0.75		41.5		1.88		66.5		2.96		91.5		4.01	
17.0		0.77		42.0		1.90		67.0		2.98		92.0		4.03	
17.5		0.79		42.5		1.92		67.5		3.00		92.5		4.05	
18.0		0.82		43.0		1.94		68.0		3.03		93.0		4.07	
18.5		0.84		43.5		1.96		68.5		3.05		93.5		4.09	
19.0		0.86		44.0		1.99		69.0		3.07		94.0		4.11	
19.5		0.88		44.5		2.01		69.5		3.09		94.5		4.13	
20.0		0.91		45.0		2.03		70.0		3.11		95.0		4.15	
20.5		0.93		45.5		2.05		70.5		3.13		95.5		4.17	
21.0		0.95		46.0		2.07		71.0		3.15		96.0		4.19	
21.5		0.98		46.5		2.10		71.5		3.17		96.5		4.21	
22.0		1.00		47.0		2.12		72.0		3.20		97.0		4.23	
22.5		1.02		47.5		2.14		72.5		3.22		97.5		4.25	
23.0		1.04		48.0		2.16		73.0		3.24		98.0		4.27	
23.5		1.07		48.5		2.18		73.5		3.26		98.5		4.29	
24.0		1.09		49.0		2.21		74.0		3.28		99.0		4.31	
24.5		1.11		49.5		2.23		74.5		3.30		99.5		4.33	
25.0		1.14		50.0		2.25		75.0		3.32		100.0		4.35	

Temperature, °F

32.0

				Temperature, °C											
				0.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.37		125.5		5.36		150.5		6.31		175.5		7.23	
101.0		4.39		126.0		5.38		151.0		6.33		176.0		7.24	
101.5		4.41		126.5		5.40		151.5		6.35		176.5		7.26	
102.0		4.43		127.0		5.42		152.0		6.37		177.0		7.28	
102.5		4.45		127.5		5.44		152.5		6.39		177.5		7.30	
103.0		4.47		128.0		5.46		153.0		6.41		178.0		7.32	
103.5		4.49		128.5		5.48		153.5		6.43		178.5		7.33	
104.0		4.51		129.0		5.50		154.0		6.44		179.0		7.35	
104.5		4.53		129.5		5.52		154.5		6.46		179.5		7.37	
105.0		4.55		130.0		5.54		155.0		6.48		180.0		7.39	
105.5		4.57		130.5		5.56		155.5		6.50		180.5		7.41	
106.0		4.59		131.0		5.58		156.0		6.52		181.0		7.42	
106.5		4.61		131.5		5.59		156.5		6.54		181.5		7.44	
107.0		4.63		132.0		5.61		157.0		6.55		182.0		7.46	
107.5		4.65		132.5		5.63		157.5		6.57		182.5		7.48	
108.0		4.67		133.0		5.65		158.0		6.59		183.0		7.49	
108.5		4.69		133.5		5.67		158.5		6.61		183.5		7.51	
109.0		4.71		134.0		5.69		159.0		6.63		184.0		7.53	
109.5		4.73		134.5		5.71		159.5		6.65		184.5		7.55	
110.0		4.75		135.0		5.73		160.0		6.67		185.0		7.56	
110.5		4.77		135.5		5.75		160.5		6.68		185.5		7.58	
111.0		4.79		136.0		5.77		161.0		6.70		186.0		7.60	
111.5		4.81		136.5		5.79		161.5		6.72		186.5		7.62	
112.0		4.83		137.0		5.81		162.0		6.74		187.0		7.63	
112.5		4.85		137.5		5.82		162.5		6.76		187.5		7.65	
113.0		4.87		138.0		5.84		163.0		6.77		188.0		7.67	
113.5		4.89		138.5		5.86		163.5		6.79		188.5		7.69	
114.0		4.91		139.0		5.88		164.0		6.81		189.0		7.70	
114.5		4.93		139.5		5.90		164.5		6.83		189.5		7.72	
115.0		4.95		140.0		5.92		165.0		6.85		190.0		7.74	
115.5		4.97		140.5		5.94		165.5		6.87		190.5		7.76	
116.0		4.99		141.0		5.96		166.0		6.88		191.0		7.77	
116.5		5.01		141.5		5.98		166.5		6.90		191.5		7.79	
117.0		5.03		142.0		5.99		167.0		6.92		192.0		7.81	
117.5		5.05		142.5		6.01		167.5		6.94		192.5		7.83	
118.0		5.07		143.0		6.03		168.0		6.96		193.0		7.84	
118.5		5.09		143.5		6.05		168.5		6.97		193.5		7.86	
119.0		5.11		144.0		6.07		169.0		6.99		194.0		7.88	
119.5		5.13		144.5		6.09		169.5		7.01		194.5		7.90	
120.0		5.15		145.0		6.11		170.0		7.03		195.0		7.91	
120.5		5.17		145.5		6.13		170.5		7.05		195.5		7.93	
121.0		5.19		146.0		6.15		171.0		7.07		196.0		7.95	
121.5		5.21		146.5		6.16		171.5		7.08		196.5		7.97	
122.0		5.23		147.0		6.18		172.0		7.10		197.0		7.98	
122.5		5.25		147.5		6.20		172.5		7.12		197.5		8.00	
123.0		5.27		148.0		6.22		173.0		7.14		198.0		8.02	
123.5		5.29		148.5		6.24		173.5		7.16		198.5		8.03	
124.0		5.30		149.0		6.26		174.0		7.17		199.0		8.05	
124.5		5.32		149.5		6.28		174.5		7.19		199.5		8.07	
125.0		5.34		150.0		6.30		175.0		7.21		200.0		8.09	

Temperature, °F

32.0

atu - kg		atu - kg		Temperature, °C		1.0	
atu	kg	atu	kg	atu	kg	atu	kg
0.5	0.00	25.5	1.15	50.5	2.26	75.5	3.33
1.0	0.02	26.0	1.18	51.0	2.29	76.0	3.35
1.5	0.05	26.5	1.20	51.5	2.31	76.5	3.37
2.0	0.07	27.0	1.22	52.0	2.33	77.0	3.39
2.5	0.09	27.5	1.24	52.5	2.35	77.5	3.41
3.0	0.12	28.0	1.27	53.0	2.37	78.0	3.44
3.5	0.14	28.5	1.29	53.5	2.39	78.5	3.46
4.0	0.16	29.0	1.31	54.0	2.42	79.0	3.48
4.5	0.19	29.5	1.33	54.5	2.44	79.5	3.50
5.0	0.21	30.0	1.36	55.0	2.46	80.0	3.52
5.5	0.23	30.5	1.38	55.5	2.48	80.5	3.54
6.0	0.26	31.0	1.40	56.0	2.50	81.0	3.56
6.5	0.28	31.5	1.42	56.5	2.52	81.5	3.58
7.0	0.30	32.0	1.45	57.0	2.54	82.0	3.60
7.5	0.33	32.5	1.47	57.5	2.57	82.5	3.62
8.0	0.35	33.0	1.49	58.0	2.59	83.0	3.64
8.5	0.37	33.5	1.51	58.5	2.61	83.5	3.66
9.0	0.40	34.0	1.54	59.0	2.63	84.0	3.68
9.5	0.42	34.5	1.56	59.5	2.65	84.5	3.70
10.0	0.44	35.0	1.58	60.0	2.67	85.0	3.73
10.5	0.47	35.5	1.60	60.5	2.70	85.5	3.75
11.0	0.49	36.0	1.62	61.0	2.72	86.0	3.77
11.5	0.51	36.5	1.65	61.5	2.74	86.5	3.79
12.0	0.54	37.0	1.67	62.0	2.76	87.0	3.81
12.5	0.56	37.5	1.69	62.5	2.78	87.5	3.83
13.0	0.58	38.0	1.71	63.0	2.80	88.0	3.85
13.5	0.61	38.5	1.74	63.5	2.82	88.5	3.87
14.0	0.63	39.0	1.76	64.0	2.84	89.0	3.89
14.5	0.65	39.5	1.78	64.5	2.87	89.5	3.91
15.0	0.67	40.0	1.80	65.0	2.89	90.0	3.93
15.5	0.70	40.5	1.82	65.5	2.91	90.5	3.95
16.0	0.72	41.0	1.85	66.0	2.93	91.0	3.97
16.5	0.74	41.5	1.87	66.5	2.95	91.5	3.99
17.0	0.77	42.0	1.89	67.0	2.97	92.0	4.01
17.5	0.79	42.5	1.91	67.5	2.99	92.5	4.03
18.0	0.81	43.0	1.93	68.0	3.01	93.0	4.05
18.5	0.83	43.5	1.96	68.5	3.04	93.5	4.07
19.0	0.86	44.0	1.98	69.0	3.06	94.0	4.09
19.5	0.88	44.5	2.00	69.5	3.08	94.5	4.11
20.0	0.90	45.0	2.02	70.0	3.10	95.0	4.13
20.5	0.93	45.5	2.04	70.5	3.12	95.5	4.15
21.0	0.95	46.0	2.07	71.0	3.14	96.0	4.18
21.5	0.97	46.5	2.09	71.5	3.16	96.5	4.20
22.0	0.99	47.0	2.11	72.0	3.18	97.0	4.22
22.5	1.02	47.5	2.13	72.5	3.20	97.5	4.24
23.0	1.04	48.0	2.15	73.0	3.23	98.0	4.26
23.5	1.06	48.5	2.18	73.5	3.25	98.5	4.28
24.0	1.09	49.0	2.20	74.0	3.27	99.0	4.30
24.5	1.11	49.5	2.22	74.5	3.29	99.5	4.32
25.0	1.13	50.0	2.24	75.0	3.31	100.0	4.34

				Temperature, °C											
				1.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.36		125.5		5.34		150.5		6.29		175.5		7.20	
101.0		4.38		126.0		5.36		151.0		6.31		176.0		7.22	
101.5		4.40		126.5		5.38		151.5		6.33		176.5		7.24	
102.0		4.42		127.0		5.40		152.0		6.35		177.0		7.25	
102.5		4.44		127.5		5.42		152.5		6.36		177.5		7.27	
103.0		4.46		128.0		5.44		153.0		6.38		178.0		7.29	
103.5		4.48		128.5		5.46		153.5		6.40		178.5		7.31	
104.0		4.50		129.0		5.48		154.0		6.42		179.0		7.32	
104.5		4.52		129.5		5.50		154.5		6.44		179.5		7.34	
105.0		4.54		130.0		5.52		155.0		6.46		180.0		7.36	
105.5		4.56		130.5		5.54		155.5		6.48		180.5		7.38	
106.0		4.58		131.0		5.55		156.0		6.49		181.0		7.40	
106.5		4.60		131.5		5.57		156.5		6.51		181.5		7.41	
107.0		4.62		132.0		5.59		157.0		6.53		182.0		7.43	
107.5		4.64		132.5		5.61		157.5		6.55		182.5		7.45	
108.0		4.66		133.0		5.63		158.0		6.57		183.0		7.47	
108.5		4.68		133.5		5.65		158.5		6.59		183.5		7.48	
109.0		4.70		134.0		5.67		159.0		6.60		184.0		7.50	
109.5		4.72		134.5		5.69		159.5		6.62		184.5		7.52	
110.0		4.74		135.0		5.71		160.0		6.64		185.0		7.54	
110.5		4.76		135.5		5.73		160.5		6.66		185.5		7.55	
111.0		4.78		136.0		5.75		161.0		6.68		186.0		7.57	
111.5		4.80		136.5		5.76		161.5		6.70		186.5		7.59	
112.0		4.82		137.0		5.78		162.0		6.71		187.0		7.61	
112.5		4.84		137.5		5.80		162.5		6.73		187.5		7.62	
113.0		4.85		138.0		5.82		163.0		6.75		188.0		7.64	
113.5		4.87		138.5		5.84		163.5		6.77		188.5		7.66	
114.0		4.89		139.0		5.86		164.0		6.79		189.0		7.68	
114.5		4.91		139.5		5.88		164.5		6.80		189.5		7.69	
115.0		4.93		140.0		5.90		165.0		6.82		190.0		7.71	
115.5		4.95		140.5		5.92		165.5		6.84		190.5		7.73	
116.0		4.97		141.0		5.93		166.0		6.86		191.0		7.75	
116.5		4.99		141.5		5.95		166.5		6.88		191.5		7.76	
117.0		5.01		142.0		5.97		167.0		6.90		192.0		7.78	
117.5		5.03		142.5		5.99		167.5		6.91		192.5		7.80	
118.0		5.05		143.0		6.01		168.0		6.93		193.0		7.82	
118.5		5.07		143.5		6.03		168.5		6.95		193.5		7.83	
119.0		5.09		144.0		6.05		169.0		6.97		194.0		7.85	
119.5		5.11		144.5		6.07		169.5		6.99		194.5		7.87	
120.0		5.13		145.0		6.09		170.0		7.00		195.0		7.88	
120.5		5.15		145.5		6.10		170.5		7.02		195.5		7.90	
121.0		5.17		146.0		6.12		171.0		7.04		196.0		7.92	
121.5		5.19		146.5		6.14		171.5		7.06		196.5		7.94	
122.0		5.21		147.0		6.16		172.0		7.08		197.0		7.95	
122.5		5.23		147.5		6.18		172.5		7.09		197.5		7.97	
123.0		5.25		148.0		6.20		173.0		7.11		198.0		7.99	
123.5		5.27		148.5		6.22		173.5		7.13		198.5		8.01	
124.0		5.28		149.0		6.23		174.0		7.15		199.0		8.02	
124.5		5.30		149.5		6.25		174.5		7.16		199.5		8.04	
125.0		5.32		150.0		6.27		175.0		7.18		200.0		8.06	

2.0

Temperature, °C			
atü	-	kg	
0.5	0.00	25.5	1.15
1.0	0.02	26.0	1.17
1.5	0.05	26.5	1.19
2.0	0.07	27.0	1.22
2.5	0.09	27.5	1.24
3.0	0.12	28.0	1.26
3.5	0.14	28.5	1.28
4.0	0.16	29.0	1.31
4.5	0.19	29.5	1.33
5.0	0.21	30.0	1.35
5.5	0.23	30.5	1.37
6.0	0.26	31.0	1.40
6.5	0.28	31.5	1.42
7.0	0.30	32.0	1.44
7.5	0.33	32.5	1.46
8.0	0.35	33.0	1.49
8.5	0.37	33.5	1.51
9.0	0.40	34.0	1.53
9.5	0.42	34.5	1.55
10.0	0.44	35.0	1.57
10.5	0.46	35.5	1.60
11.0	0.49	36.0	1.62
11.5	0.51	36.5	1.64
12.0	0.53	37.0	1.66
12.5	0.56	37.5	1.69
13.0	0.58	38.0	1.71
13.5	0.60	38.5	1.73
14.0	0.63	39.0	1.75
14.5	0.65	39.5	1.77
15.0	0.67	40.0	1.80
15.5	0.69	40.5	1.82
16.0	0.72	41.0	1.84
16.5	0.74	41.5	1.86
17.0	0.76	42.0	1.88
17.5	0.79	42.5	1.91
18.0	0.81	43.0	1.93
18.5	0.83	43.5	1.95
19.0	0.85	44.0	1.97
19.5	0.88	44.5	1.99
20.0	0.90	45.0	2.02
20.5	0.92	45.5	2.04
21.0	0.95	46.0	2.06
21.5	0.97	46.5	2.08
22.0	0.99	47.0	2.10
22.5	1.01	47.5	2.12
23.0	1.04	48.0	2.15
23.5	1.06	48.5	2.17
24.0	1.08	49.0	2.19
24.5	1.10	49.5	2.21
25.0	1.13	50.0	2.23
50.5	2.25	50.5	2.25
51.0	2.28	51.0	2.28
51.5	2.30	51.5	2.30
52.0	2.32	52.0	2.32
52.5	2.34	52.5	2.34
53.0	2.36	53.0	2.36
53.5	2.38	53.5	2.38
54.0	2.41	54.0	2.41
54.5	2.43	54.5	2.43
55.0	2.45	55.0	2.45
55.5	2.47	55.5	2.47
56.0	2.49	56.0	2.49
56.5	2.51	56.5	2.51
57.0	2.54	57.0	2.54
57.5	2.56	57.5	2.56
58.0	2.58	58.0	2.58
58.5	2.60	58.5	2.60
59.0	2.62	59.0	2.62
59.5	2.64	59.5	2.64
60.0	2.66	60.0	2.66
60.5	2.69	60.5	2.69
61.0	2.71	61.0	2.71
61.5	2.73	61.5	2.73
62.0	2.75	62.0	2.75
62.5	2.77	62.5	2.77
63.0	2.79	63.0	2.79
63.5	2.81	63.5	2.81
64.0	2.83	64.0	2.83
64.5	2.86	64.5	2.86
65.0	2.88	65.0	2.88
65.5	2.90	65.5	2.90
66.0	2.92	66.0	2.92
66.5	2.94	66.5	2.94
67.0	2.96	67.0	2.96
67.5	2.98	67.5	2.98
68.0	3.00	68.0	3.00
68.5	3.02	68.5	3.02
69.0	3.05	69.0	3.05
69.5	3.07	69.5	3.07
70.0	3.09	70.0	3.09
70.5	3.11	70.5	3.11
71.0	3.13	71.0	3.13
71.5	3.15	71.5	3.15
72.0	3.17	72.0	3.17
72.5	3.19	72.5	3.19
73.0	3.21	73.0	3.21
73.5	3.23	73.5	3.23
74.0	3.26	74.0	3.26
74.5	3.28	74.5	3.28
75.0	3.30	75.0	3.30
75.5	3.32	75.5	3.32
76.0	3.34	76.0	3.34
76.5	3.36	76.5	3.36
77.0	3.38	77.0	3.38
77.5	3.40	77.5	3.40
78.0	3.42	78.0	3.42
78.5	3.44	78.5	3.44
79.0	3.46	79.0	3.46
79.5	3.48	79.5	3.48
80.0	3.51	80.0	3.51
80.5	3.53	80.5	3.53
81.0	3.55	81.0	3.55
81.5	3.57	81.5	3.57
82.0	3.59	82.0	3.59
82.5	3.61	82.5	3.61
83.0	3.63	83.0	3.63
83.5	3.65	83.5	3.65
84.0	3.67	84.0	3.67
84.5	3.69	84.5	3.69
85.0	3.71	85.0	3.71
85.5	3.73	85.5	3.73
86.0	3.75	86.0	3.75
86.5	3.77	86.5	3.77
87.0	3.79	87.0	3.79
87.5	3.81	87.5	3.81
88.0	3.83	88.0	3.83
88.5	3.85	88.5	3.85
89.0	3.88	89.0	3.88
89.5	3.90	89.5	3.90
90.0	3.92	90.0	3.92
90.5	3.94	90.5	3.94
91.0	3.96	91.0	3.96
91.5	3.98	91.5	3.98
92.0	4.00	92.0	4.00
92.5	4.02	92.5	4.02
93.0	4.04	93.0	4.04
93.5	4.06	93.5	4.06
94.0	4.08	94.0	4.08
94.5	4.10	94.5	4.10
95.0	4.12	95.0	4.12
95.5	4.14	95.5	4.14
96.0	4.16	96.0	4.16
96.5	4.18	96.5	4.18
97.0	4.20	97.0	4.20
97.5	4.22	97.5	4.22
98.0	4.24	98.0	4.24
98.5	4.26	98.5	4.26
99.0	4.28	99.0	4.28
99.5	4.30	99.5	4.30
100.0	4.32	100.0	4.32

Temperature, °F

35.6

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
100.5	4.34	125.5	5.32	150.5	6.27	175.5	7.17
101.0	4.36	126.0	5.34	151.0	6.29	176.0	7.19
101.5	4.38	126.5	5.36	151.5	6.30	176.5	7.21
102.0	4.40	127.0	5.38	152.0	6.32	177.0	7.23
102.5	4.42	127.5	5.40	152.5	6.34	177.5	7.25
103.0	4.44	128.0	5.42	153.0	6.36	178.0	7.26
103.5	4.46	128.5	5.44	153.5	6.38	178.5	7.28
104.0	4.48	129.0	5.46	154.0	6.40	179.0	7.30
104.5	4.50	129.5	5.48	154.5	6.41	179.5	7.32
105.0	4.52	130.0	5.50	155.0	6.43	180.0	7.33
105.5	4.54	130.5	5.51	155.5	6.45	180.5	7.35
106.0	4.56	131.0	5.53	156.0	6.47	181.0	7.37
106.5	4.58	131.5	5.55	156.5	6.49	181.5	7.39
107.0	4.60	132.0	5.57	157.0	6.51	182.0	7.40
107.5	4.62	132.5	5.59	157.5	6.52	182.5	7.42
108.0	4.64	133.0	5.61	158.0	6.54	183.0	7.44
108.5	4.66	133.5	5.63	158.5	6.56	183.5	7.46
109.0	4.68	134.0	5.65	159.0	6.58	184.0	7.47
109.5	4.70	134.5	5.67	159.5	6.60	184.5	7.49
110.0	4.72	135.0	5.69	160.0	6.62	185.0	7.51
110.5	4.74	135.5	5.71	160.5	6.63	185.5	7.53
111.0	4.76	136.0	5.72	161.0	6.65	186.0	7.54
111.5	4.78	136.5	5.74	161.5	6.67	186.5	7.56
112.0	4.80	137.0	5.76	162.0	6.69	187.0	7.58
112.5	4.82	137.5	5.78	162.5	6.71	187.5	7.60
113.0	4.84	138.0	5.80	163.0	6.73	188.0	7.61
113.5	4.86	138.5	5.82	163.5	6.74	188.5	7.63
114.0	4.88	139.0	5.84	164.0	6.76	189.0	7.65
114.5	4.90	139.5	5.86	164.5	6.78	189.5	7.67
115.0	4.92	140.0	5.88	165.0	6.80	190.0	7.68
115.5	4.93	140.5	5.89	165.5	6.82	190.5	7.70
116.0	4.95	141.0	5.91	166.0	6.83	191.0	7.72
116.5	4.97	141.5	5.93	166.5	6.85	191.5	7.74
117.0	4.99	142.0	5.95	167.0	6.87	192.0	7.75
117.5	5.01	142.5	5.97	167.5	6.89	192.5	7.77
118.0	5.03	143.0	5.99	168.0	6.91	193.0	7.79
118.5	5.05	143.5	6.01	168.5	6.92	193.5	7.80
119.0	5.07	144.0	6.03	169.0	6.94	194.0	7.82
119.5	5.09	144.5	6.04	169.5	6.96	194.5	7.84
120.0	5.11	145.0	6.06	170.0	6.98	195.0	7.86
120.5	5.13	145.5	6.08	170.5	7.00	195.5	7.87
121.0	5.15	146.0	6.10	171.0	7.01	196.0	7.89
121.5	5.17	146.5	6.12	171.5	7.03	196.5	7.91
122.0	5.19	147.0	6.14	172.0	7.05	197.0	7.93
122.5	5.21	147.5	6.16	172.5	7.07	197.5	7.94
123.0	5.23	148.0	6.17	173.0	7.08	198.0	7.96
123.5	5.25	148.5	6.19	173.5	7.10	198.5	7.98
124.0	5.27	149.0	6.21	174.0	7.12	199.0	7.99
124.5	5.28	149.5	6.23	174.5	7.14	199.5	8.01
125.0	5.30	150.0	6.25	175.0	7.16	200.0	8.03

				Temperature, °C											
				3.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.14		50.5		2.25		75.5		3.31	
1.0		0.02		26.0		1.17		51.0		2.27		76.0		3.33	
1.5		0.05		26.5		1.19		51.5		2.29		76.5		3.35	
2.0		0.07		27.0		1.21		52.0		2.31		77.0		3.37	
2.5		0.09		27.5		1.23		52.5		2.33		77.5		3.39	
3.0		0.12		28.0		1.26		53.0		2.35		78.0		3.41	
3.5		0.14		28.5		1.28		53.5		2.38		78.5		3.43	
4.0		0.16		29.0		1.30		54.0		2.40		79.0		3.45	
4.5		0.19		29.5		1.32		54.5		2.42		79.5		3.47	
5.0		0.21		30.0		1.35		55.0		2.44		80.0		3.49	
5.5		0.23		30.5		1.37		55.5		2.46		80.5		3.51	
6.0		0.26		31.0		1.39		56.0		2.48		81.0		3.53	
6.5		0.28		31.5		1.41		56.5		2.50		81.5		3.55	
7.0		0.30		32.0		1.44		57.0		2.53		82.0		3.57	
7.5		0.32		32.5		1.46		57.5		2.55		82.5		3.60	
8.0		0.35		33.0		1.48		58.0		2.57		83.0		3.62	
8.5		0.37		33.5		1.50		58.5		2.59		83.5		3.64	
9.0		0.39		34.0		1.52		59.0		2.61		84.0		3.66	
9.5		0.42		34.5		1.55		59.5		2.63		84.5		3.68	
10.0		0.44		35.0		1.57		60.0		2.65		85.0		3.70	
10.5		0.46		35.5		1.59		60.5		2.68		85.5		3.72	
11.0		0.49		36.0		1.61		61.0		2.70		86.0		3.74	
11.5		0.51		36.5		1.63		61.5		2.72		86.5		3.76	
12.0		0.53		37.0		1.66		62.0		2.74		87.0		3.78	
12.5		0.56		37.5		1.68		62.5		2.76		87.5		3.80	
13.0		0.58		38.0		1.70		63.0		2.78		88.0		3.82	
13.5		0.60		38.5		1.72		63.5		2.80		88.5		3.84	
14.0		0.62		39.0		1.74		64.0		2.82		89.0		3.86	
14.5		0.65		39.5		1.77		64.5		2.84		89.5		3.88	
15.0		0.67		40.0		1.79		65.0		2.87		90.0		3.90	
15.5		0.69		40.5		1.81		65.5		2.89		90.5		3.92	
16.0		0.71		41.0		1.83		66.0		2.91		91.0		3.94	
16.5		0.74		41.5		1.85		66.5		2.93		91.5		3.96	
17.0		0.76		42.0		1.88		67.0		2.95		92.0		3.98	
17.5		0.78		42.5		1.90		67.5		2.97		92.5		4.00	
18.0		0.81		43.0		1.92		68.0		2.99		93.0		4.02	
18.5		0.83		43.5		1.94		68.5		3.01		93.5		4.04	
19.0		0.85		44.0		1.96		69.0		3.03		94.0		4.06	
19.5		0.87		44.5		1.99		69.5		3.06		94.5		4.08	
20.0		0.90		45.0		2.01		70.0		3.08		95.0		4.10	
20.5		0.92		45.5		2.03		70.5		3.10		95.5		4.12	
21.0		0.94		46.0		2.05		71.0		3.12		96.0		4.14	
21.5		0.96		46.5		2.07		71.5		3.14		96.5		4.16	
22.0		0.99		47.0		2.09		72.0		3.16		97.0		4.18	
22.5		1.01		47.5		2.12		72.5		3.18		97.5		4.20	
23.0		1.03		48.0		2.14		73.0		3.20		98.0		4.22	
23.5		1.05		48.5		2.16		73.5		3.22		98.5		4.24	
24.0		1.08		49.0		2.18		74.0		3.24		99.0		4.26	
24.5		1.10		49.5		2.20		74.5		3.26		99.5		4.28	
25.0		1.12		50.0		2.22		75.0		3.28		100.0		4.30	

Temperature, °F

37.4

				Temperature, °C											
				3.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.32		125.5		5.30		150.5		6.24		175.5		7.15	
101.0		4.34		126.0		5.32		151.0		6.26		176.0		7.17	
101.5		4.36		126.5		5.34		151.5		6.28		176.5		7.18	
102.0		4.38		127.0		5.36		152.0		6.30		177.0		7.20	
102.5		4.40		127.5		5.38		152.5		6.32		177.5		7.22	
103.0		4.42		128.0		5.40		153.0		6.34		178.0		7.24	
103.5		4.44		128.5		5.42		153.5		6.35		178.5		7.25	
104.0		4.46		129.0		5.44		154.0		6.37		179.0		7.27	
104.5		4.48		129.5		5.46		154.5		6.39		179.5		7.29	
105.0		4.50		130.0		5.48		155.0		6.41		180.0		7.31	
105.5		4.52		130.5		5.49		155.5		6.43		180.5		7.32	
106.0		4.54		131.0		5.51		156.0		6.45		181.0		7.34	
106.5		4.56		131.5		5.53		156.5		6.46		181.5		7.36	
107.0		4.58		132.0		5.55		157.0		6.48		182.0		7.38	
107.5		4.60		132.5		5.57		157.5		6.50		182.5		7.39	
108.0		4.62		133.0		5.59		158.0		6.52		183.0		7.41	
108.5		4.64		133.5		5.61		158.5		6.54		183.5		7.43	
109.0		4.66		134.0		5.63		159.0		6.56		184.0		7.45	
109.5		4.68		134.5		5.65		159.5		6.57		184.5		7.46	
110.0		4.70		135.0		5.67		160.0		6.59		185.0		7.48	
110.5		4.72		135.5		5.68		160.5		6.61		185.5		7.50	
111.0		4.74		136.0		5.70		161.0		6.63		186.0		7.52	
111.5		4.76		136.5		5.72		161.5		6.65		186.5		7.53	
112.0		4.78		137.0		5.74		162.0		6.66		187.0		7.55	
112.5		4.80		137.5		5.76		162.5		6.68		187.5		7.57	
113.0		4.82		138.0		5.78		163.0		6.70		188.0		7.59	
113.5		4.84		138.5		5.80		163.5		6.72		188.5		7.60	
114.0		4.86		139.0		5.82		164.0		6.74		189.0		7.62	
114.5		4.88		139.5		5.83		164.5		6.75		189.5		7.64	
115.0		4.90		140.0		5.85		165.0		6.77		190.0		7.66	
115.5		4.92		140.5		5.87		165.5		6.79		190.5		7.67	
116.0		4.94		141.0		5.89		166.0		6.81		191.0		7.69	
116.5		4.96		141.5		5.91		166.5		6.83		191.5		7.71	
117.0		4.97		142.0		5.93		167.0		6.84		192.0		7.72	
117.5		4.99		142.5		5.95		167.5		6.86		192.5		7.74	
118.0		5.01		143.0		5.97		168.0		6.88		193.0		7.76	
118.5		5.03		143.5		5.98		168.5		6.90		193.5		7.78	
119.0		5.05		144.0		6.00		169.0		6.92		194.0		7.79	
119.5		5.07		144.5		6.02		169.5		6.93		194.5		7.81	
120.0		5.09		145.0		6.04		170.0		6.95		195.0		7.83	
120.5		5.11		145.5		6.06		170.5		6.97		195.5		7.84	
121.0		5.13		146.0		6.08		171.0		6.99		196.0		7.86	
121.5		5.15		146.5		6.10		171.5		7.01		196.5		7.88	
122.0		5.17		147.0		6.11		172.0		7.02		197.0		7.90	
122.5		5.19		147.5		6.13		172.5		7.04		197.5		7.91	
123.0		5.21		148.0		6.15		173.0		7.06		198.0		7.93	
123.5		5.23		148.5		6.17		173.5		7.08		198.5		7.95	
124.0		5.25		149.0		6.19		174.0		7.09		199.0		7.96	
124.5		5.26		149.5		6.21		174.5		7.11		199.5		7.98	
125.0		5.28		150.0		6.23		175.0		7.13		200.0		8.00	

				Temperature, °C				
				4.0				
atü	-	kg		atü	-	kg		
0.5	0.00		25.5	1.14	50.5	2.24	75.5	3.29
1.0	0.02		26.0	1.16	51.0	2.26	76.0	3.31
1.5	0.05		26.5	1.19	51.5	2.28	76.5	3.33
2.0	0.07		27.0	1.21	52.0	2.30	77.0	3.36
2.5	0.09		27.5	1.23	52.5	2.32	77.5	3.38
3.0	0.12		28.0	1.25	53.0	2.35	78.0	3.40
3.5	0.14		28.5	1.27	53.5	2.37	78.5	3.42
4.0	0.16		29.0	1.30	54.0	2.39	79.0	3.44
4.5	0.19		29.5	1.32	54.5	2.41	79.5	3.46
5.0	0.21		30.0	1.34	55.0	2.43	80.0	3.48
5.5	0.23		30.5	1.36	55.5	2.45	80.5	3.50
6.0	0.25		31.0	1.39	56.0	2.47	81.0	3.52
6.5	0.28		31.5	1.41	56.5	2.50	81.5	3.54
7.0	0.30		32.0	1.43	57.0	2.52	82.0	3.56
7.5	0.32		32.5	1.45	57.5	2.54	82.5	3.58
8.0	0.35		33.0	1.47	58.0	2.56	83.0	3.60
8.5	0.37		33.5	1.50	58.5	2.58	83.5	3.62
9.0	0.39		34.0	1.52	59.0	2.60	84.0	3.64
9.5	0.42		34.5	1.54	59.5	2.62	84.5	3.66
10.0	0.44		35.0	1.56	60.0	2.64	85.0	3.68
10.5	0.46		35.5	1.58	60.5	2.67	85.5	3.70
11.0	0.48		36.0	1.61	61.0	2.69	86.0	3.72
11.5	0.51		36.5	1.63	61.5	2.71	86.5	3.74
12.0	0.53		37.0	1.65	62.0	2.73	87.0	3.77
12.5	0.55		37.5	1.67	62.5	2.75	87.5	3.79
13.0	0.58		38.0	1.69	63.0	2.77	88.0	3.81
13.5	0.60		38.5	1.72	63.5	2.79	88.5	3.83
14.0	0.62		39.0	1.74	64.0	2.81	89.0	3.85
14.5	0.64		39.5	1.76	64.5	2.83	89.5	3.87
15.0	0.67		40.0	1.78	65.0	2.86	90.0	3.89
15.5	0.69		40.5	1.80	65.5	2.88	90.5	3.91
16.0	0.71		41.0	1.83	66.0	2.90	91.0	3.93
16.5	0.73		41.5	1.85	66.5	2.92	91.5	3.95
17.0	0.76		42.0	1.87	67.0	2.94	92.0	3.97
17.5	0.78		42.5	1.89	67.5	2.96	92.5	3.99
18.0	0.80		43.0	1.91	68.0	2.98	93.0	4.01
18.5	0.83		43.5	1.93	68.5	3.00	93.5	4.03
19.0	0.85		44.0	1.96	69.0	3.02	94.0	4.05
19.5	0.87		44.5	1.98	69.5	3.04	94.5	4.07
20.0	0.89		45.0	2.00	70.0	3.06	95.0	4.09
20.5	0.92		45.5	2.02	70.5	3.09	95.5	4.11
21.0	0.94		46.0	2.04	71.0	3.11	96.0	4.13
21.5	0.96		46.5	2.07	71.5	3.13	96.5	4.15
22.0	0.98		47.0	2.09	72.0	3.15	97.0	4.17
22.5	1.01		47.5	2.11	72.5	3.17	97.5	4.19
23.0	1.03		48.0	2.13	73.0	3.19	98.0	4.21
23.5	1.05		48.5	2.15	73.5	3.21	98.5	4.23
24.0	1.07		49.0	2.17	74.0	3.23	99.0	4.25
24.5	1.10		49.5	2.19	74.5	3.25	99.5	4.27
25.0	1.12		50.0	2.22	75.0	3.27	100.0	4.29

Temperature, °F

39.2

Temperature, °C															
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.31		125.5		5.28		150.5		6.22		175.5		7.12	
101.0		4.33		126.0		5.30		151.0		6.24		176.0		7.14	
101.5		4.35		126.5		5.32		151.5		6.26		176.5		7.16	
102.0		4.37		127.0		5.34		152.0		6.28		177.0		7.17	
102.5		4.39		127.5		5.36		152.5		6.29		177.5		7.19	
103.0		4.41		128.0		5.38		153.0		6.31		178.0		7.21	
103.5		4.43		128.5		5.40		153.5		6.33		178.5		7.23	
104.0		4.45		129.0		5.42		154.0		6.35		179.0		7.24	
104.5		4.47		129.5		5.44		154.5		6.37		179.5		7.26	
105.0		4.49		130.0		5.46		155.0		6.39		180.0		7.28	
105.5		4.51		130.5		5.47		155.5		6.40		180.5		7.30	
106.0		4.53		131.0		5.49		156.0		6.42		181.0		7.32	
106.5		4.55		131.5		5.51		156.5		6.44		181.5		7.33	
107.0		4.57		132.0		5.53		157.0		6.46		182.0		7.35	
107.5		4.59		132.5		5.55		157.5		6.48		182.5		7.37	
108.0		4.60		133.0		5.57		158.0		6.50		183.0		7.38	
108.5		4.62		133.5		5.59		158.5		6.51		183.5		7.40	
109.0		4.64		134.0		5.61		159.0		6.53		184.0		7.42	
109.5		4.66		134.5		5.63		159.5		6.55		184.5		7.44	
110.0		4.68		135.0		5.64		160.0		6.57		185.0		7.45	
110.5		4.70		135.5		5.66		160.5		6.59		185.5		7.47	
111.0		4.72		136.0		5.68		161.0		6.60		186.0		7.49	
111.5		4.74		136.5		5.70		161.5		6.62		186.5		7.51	
112.0		4.76		137.0		5.72		162.0		6.64		187.0		7.52	
112.5		4.78		137.5		5.74		162.5		6.66		187.5		7.54	
113.0		4.80		138.0		5.76		163.0		6.68		188.0		7.56	
113.5		4.82		138.5		5.78		163.5		6.69		188.5		7.58	
114.0		4.84		139.0		5.79		164.0		6.71		189.0		7.59	
114.5		4.86		139.5		5.81		164.5		6.73		189.5		7.61	
115.0		4.88		140.0		5.83		165.0		6.75		190.0		7.63	
115.5		4.90		140.5		5.85		165.5		6.77		190.5		7.64	
116.0		4.92		141.0		5.87		166.0		6.78		191.0		7.66	
116.5		4.94		141.5		5.89		166.5		6.80		191.5		7.68	
117.0		4.96		142.0		5.91		167.0		6.82		192.0		7.70	
117.5		4.98		142.5		5.93		167.5		6.84		192.5		7.71	
118.0		5.00		143.0		5.94		168.0		6.86		193.0		7.73	
118.5		5.01		143.5		5.96		168.5		6.87		193.5		7.75	
119.0		5.03		144.0		5.98		169.0		6.89		194.0		7.77	
119.5		5.05		144.5		6.00		169.5		6.91		194.5		7.78	
120.0		5.07		145.0		6.02		170.0		6.93		195.0		7.80	
120.5		5.09		145.5		6.04		170.5		6.94		195.5		7.82	
121.0		5.11		146.0		6.06		171.0		6.96		196.0		7.83	
121.5		5.13		146.5		6.07		171.5		6.98		196.5		7.85	
122.0		5.15		147.0		6.09		172.0		7.00		197.0		7.87	
122.5		5.17		147.5		6.11		172.5		7.02		197.5		7.88	
123.0		5.19		148.0		6.13		173.0		7.03		198.0		7.90	
123.5		5.21		148.5		6.15		173.5		7.05		198.5		7.92	
124.0		5.23		149.0		6.17		174.0		7.07		199.0		7.94	
124.5		5.25		149.5		6.18		174.5		7.09		199.5		7.95	
125.0		5.26		150.0		6.20		175.0		7.10		200.0		7.97	

				Temperature, °C				5.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.14		50.5		2.23		75.5		3.28	
1.0		0.02		26.0		1.16		51.0		2.25		76.0		3.30	
1.5		0.05		26.5		1.18		51.5		2.27		76.5		3.32	
2.0		0.07		27.0		1.20		52.0		2.29		77.0		3.34	
2.5		0.09		27.5		1.23		52.5		2.32		77.5		3.36	
3.0		0.12		28.0		1.25		53.0		2.34		78.0		3.38	
3.5		0.14		28.5		1.27		53.5		2.36		78.5		3.40	
4.0		0.16		29.0		1.29		54.0		2.38		79.0		3.43	
4.5		0.18		29.5		1.31		54.5		2.40		79.5		3.45	
5.0		0.21		30.0		1.34		55.0		2.42		80.0		3.47	
5.5		0.23		30.5		1.36		55.5		2.44		80.5		3.49	
6.0		0.25		31.0		1.38		56.0		2.46		81.0		3.51	
6.5		0.28		31.5		1.40		56.5		2.49		81.5		3.53	
7.0		0.30		32.0		1.42		57.0		2.51		82.0		3.55	
7.5		0.32		32.5		1.45		57.5		2.53		82.5		3.57	
8.0		0.35		33.0		1.47		58.0		2.55		83.0		3.59	
8.5		0.37		33.5		1.49		58.5		2.57		83.5		3.61	
9.0		0.39		34.0		1.51		59.0		2.59		84.0		3.63	
9.5		0.41		34.5		1.53		59.5		2.61		84.5		3.65	
10.0		0.44		35.0		1.56		60.0		2.63		85.0		3.67	
10.5		0.46		35.5		1.58		60.5		2.66		85.5		3.69	
11.0		0.48		36.0		1.60		61.0		2.68		86.0		3.71	
11.5		0.51		36.5		1.62		61.5		2.70		86.5		3.73	
12.0		0.53		37.0		1.64		62.0		2.72		87.0		3.75	
12.5		0.55		37.5		1.67		62.5		2.74		87.5		3.77	
13.0		0.57		38.0		1.69		63.0		2.76		88.0		3.79	
13.5		0.60		38.5		1.71		63.5		2.78		88.5		3.81	
14.0		0.62		39.0		1.73		64.0		2.80		89.0		3.83	
14.5		0.64		39.5		1.75		64.5		2.82		89.5		3.85	
15.0		0.66		40.0		1.78		65.0		2.84		90.0		3.87	
15.5		0.69		40.5		1.80		65.5		2.87		90.5		3.89	
16.0		0.71		41.0		1.82		66.0		2.89		91.0		3.91	
16.5		0.73		41.5		1.84		66.5		2.91		91.5		3.93	
17.0		0.75		42.0		1.86		67.0		2.93		92.0		3.95	
17.5		0.78		42.5		1.88		67.5		2.95		92.5		3.97	
18.0		0.80		43.0		1.91		68.0		2.97		93.0		3.99	
18.5		0.82		43.5		1.93		68.5		2.99		93.5		4.01	
19.0		0.85		44.0		1.95		69.0		3.01		94.0		4.03	
19.5		0.87		44.5		1.97		69.5		3.03		94.5		4.05	
20.0		0.89		45.0		1.99		70.0		3.05		95.0		4.07	
20.5		0.91		45.5		2.01		70.5		3.07		95.5		4.09	
21.0		0.93		46.0		2.04		71.0		3.09		96.0		4.11	
21.5		0.96		46.5		2.06		71.5		3.12		96.5		4.13	
22.0		0.98		47.0		2.08		72.0		3.14		97.0		4.15	
22.5		1.00		47.5		2.10		72.5		3.16		97.5		4.17	
23.0		1.02		48.0		2.12		73.0		3.18		98.0		4.19	
23.5		1.05		48.5		2.14		73.5		3.20		98.5		4.21	
24.0		1.07		49.0		2.17		74.0		3.22		99.0		4.23	
24.5		1.09		49.5		2.19		74.5		3.24		99.5		4.25	
25.0		1.11		50.0		2.21		75.0		3.26		100.0		4.27	

Temperature, °F

41.0

				Temperature, °C											
				5.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.29		125.5		5.26		150.5		6.20		175.5		7.10	
101.0		4.31		126.0		5.28		151.0		6.22		176.0		7.11	
101.5		4.33		126.5		5.30		151.5		6.23		176.5		7.13	
102.0		4.35		127.0		5.32		152.0		6.25		177.0		7.15	
102.5		4.37		127.5		5.34		152.5		6.27		177.5		7.17	
103.0		4.39		128.0		5.36		153.0		6.29		178.0		7.18	
103.5		4.41		128.5		5.38		153.5		6.31		178.5		7.20	
104.0		4.43		129.0		5.40		154.0		6.33		179.0		7.22	
104.5		4.45		129.5		5.42		154.5		6.34		179.5		7.24	
105.0		4.47		130.0		5.44		155.0		6.36		180.0		7.25	
105.5		4.49		130.5		5.45		155.5		6.38		180.5		7.27	
106.0		4.51		131.0		5.47		156.0		6.40		181.0		7.29	
106.5		4.53		131.5		5.49		156.5		6.42		181.5		7.31	
107.0		4.55		132.0		5.51		157.0		6.44		182.0		7.32	
107.5		4.57		132.5		5.53		157.5		6.45		182.5		7.34	
108.0		4.59		133.0		5.55		158.0		6.47		183.0		7.36	
108.5		4.61		133.5		5.57		158.5		6.49		183.5		7.38	
109.0		4.63		134.0		5.59		159.0		6.51		184.0		7.39	
109.5		4.65		134.5		5.60		159.5		6.53		184.5		7.41	
110.0		4.67		135.0		5.62		160.0		6.54		185.0		7.43	
110.5		4.69		135.5		5.64		160.5		6.56		185.5		7.44	
111.0		4.71		136.0		5.66		161.0		6.58		186.0		7.46	
111.5		4.72		136.5		5.68		161.5		6.60		186.5		7.48	
112.0		4.74		137.0		5.70		162.0		6.62		187.0		7.50	
112.5		4.76		137.5		5.72		162.5		6.63		187.5		7.51	
113.0		4.78		138.0		5.74		163.0		6.65		188.0		7.53	
113.5		4.80		138.5		5.75		163.5		6.67		188.5		7.55	
114.0		4.82		139.0		5.77		164.0		6.69		189.0		7.57	
114.5		4.84		139.5		5.79		164.5		6.71		189.5		7.58	
115.0		4.86		140.0		5.81		165.0		6.72		190.0		7.60	
115.5		4.88		140.5		5.83		165.5		6.74		190.5		7.62	
116.0		4.90		141.0		5.85		166.0		6.76		191.0		7.63	
116.5		4.92		141.5		5.87		166.5		6.78		191.5		7.65	
117.0		4.94		142.0		5.88		167.0		6.79		192.0		7.67	
117.5		4.96		142.5		5.90		167.5		6.81		192.5		7.69	
118.0		4.98		143.0		5.92		168.0		6.83		193.0		7.70	
118.5		5.00		143.5		5.94		168.5		6.85		193.5		7.72	
119.0		5.02		144.0		5.96		169.0		6.87		194.0		7.74	
119.5		5.03		144.5		5.98		169.5		6.88		194.5		7.75	
120.0		5.05		145.0		6.00		170.0		6.90		195.0		7.77	
120.5		5.07		145.5		6.01		170.5		6.92		195.5		7.79	
121.0		5.09		146.0		6.03		171.0		6.94		196.0		7.81	
121.5		5.11		146.5		6.05		171.5		6.95		196.5		7.82	
122.0		5.13		147.0		6.07		172.0		6.97		197.0		7.84	
122.5		5.15		147.5		6.09		172.5		6.99		197.5		7.86	
123.0		5.17		148.0		6.11		173.0		7.01		198.0		7.87	
123.5		5.19		148.5		6.12		173.5		7.03		198.5		7.89	
124.0		5.21		149.0		6.14		174.0		7.04		199.0		7.91	
124.5		5.23		149.5		6.16		174.5		7.06		199.5		7.92	
125.0		5.25		150.0		6.18		175.0		7.08		200.0		7.94	

Temperature, °F

41.0

				Temperature, °C											
				6.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5	0.00			25.5	1.13			50.5	2.22			75.5	3.27		
1.0	0.02			26.0	1.15			51.0	2.24			76.0	3.29		
1.5	0.05			26.5	1.18			51.5	2.26			76.5	3.31		
2.0	0.07			27.0	1.20			52.0	2.29			77.0	3.33		
2.5	0.09			27.5	1.22			52.5	2.31			77.5	3.35		
3.0	0.12			28.0	1.24			53.0	2.33			78.0	3.37		
3.5	0.14			28.5	1.26			53.5	2.35			78.5	3.39		
4.0	0.16			29.0	1.29			54.0	2.37			79.0	3.41		
4.5	0.18			29.5	1.31			54.5	2.39			79.5	3.43		
5.0	0.21			30.0	1.33			55.0	2.41			80.0	3.45		
5.5	0.23			30.5	1.35			55.5	2.43			80.5	3.47		
6.0	0.25			31.0	1.38			56.0	2.46			81.0	3.49		
6.5	0.28			31.5	1.40			56.5	2.48			81.5	3.51		
7.0	0.30			32.0	1.42			57.0	2.50			82.0	3.53		
7.5	0.32			32.5	1.44			57.5	2.52			82.5	3.55		
8.0	0.34			33.0	1.46			58.0	2.54			83.0	3.58		
8.5	0.37			33.5	1.49			58.5	2.56			83.5	3.60		
9.0	0.39			34.0	1.51			59.0	2.58			84.0	3.62		
9.5	0.41			34.5	1.53			59.5	2.60			84.5	3.64		
10.0	0.44			35.0	1.55			60.0	2.62			85.0	3.66		
10.5	0.46			35.5	1.57			60.5	2.65			85.5	3.68		
11.0	0.48			36.0	1.59			61.0	2.67			86.0	3.70		
11.5	0.50			36.5	1.62			61.5	2.69			86.5	3.72		
12.0	0.53			37.0	1.64			62.0	2.71			87.0	3.74		
12.5	0.55			37.5	1.66			62.5	2.73			87.5	3.76		
13.0	0.57			38.0	1.68			63.0	2.75			88.0	3.78		
13.5	0.59			38.5	1.70			63.5	2.77			88.5	3.80		
14.0	0.62			39.0	1.73			64.0	2.79			89.0	3.82		
14.5	0.64			39.5	1.75			64.5	2.81			89.5	3.84		
15.0	0.66			40.0	1.77			65.0	2.83			90.0	3.86		
15.5	0.68			40.5	1.79			65.5	2.85			90.5	3.88		
16.0	0.71			41.0	1.81			66.0	2.88			91.0	3.90		
16.5	0.73			41.5	1.83			66.5	2.90			91.5	3.92		
17.0	0.75			42.0	1.86			67.0	2.92			92.0	3.94		
17.5	0.77			42.5	1.88			67.5	2.94			92.5	3.96		
18.0	0.80			43.0	1.90			68.0	2.96			93.0	3.98		
18.5	0.82			43.5	1.92			68.5	2.98			93.5	4.00		
19.0	0.84			44.0	1.94			69.0	3.00			94.0	4.02		
19.5	0.86			44.5	1.96			69.5	3.02			94.5	4.04		
20.0	0.89			45.0	1.99			70.0	3.04			95.0	4.06		
20.5	0.91			45.5	2.01			70.5	3.06			95.5	4.08		
21.0	0.93			46.0	2.03			71.0	3.08			96.0	4.10		
21.5	0.95			46.5	2.05			71.5	3.10			96.5	4.12		
22.0	0.98			47.0	2.07			72.0	3.12			97.0	4.14		
22.5	1.00			47.5	2.09			72.5	3.15			97.5	4.16		
23.0	1.02			48.0	2.11			73.0	3.17			98.0	4.18		
23.5	1.04			48.5	2.14			73.5	3.19			98.5	4.20		
24.0	1.07			49.0	2.16			74.0	3.21			99.0	4.22		
24.5	1.09			49.5	2.18			74.5	3.23			99.5	4.24		
25.0	1.11			50.0	2.20			75.0	3.25			100.0	4.26		

Temperature, °F

42.8

				Temperature, °C				6.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.28		125.5		5.24		150.5		6.18		175.5		7.07	
101.0		4.30		126.0		5.26		151.0		6.19		176.0		7.09	
101.5		4.32		126.5		5.28		151.5		6.21		176.5		7.10	
102.0		4.34		127.0		5.30		152.0		6.23		177.0		7.12	
102.5		4.36		127.5		5.32		152.5		6.25		177.5		7.14	
103.0		4.37		128.0		5.34		153.0		6.27		178.0		7.16	
103.5		4.39		128.5		5.36		153.5		6.28		178.5		7.17	
104.0		4.41		129.0		5.38		154.0		6.30		179.0		7.19	
104.5		4.43		129.5		5.40		154.5		6.32		179.5		7.21	
105.0		4.45		130.0		5.42		155.0		6.34		180.0		7.23	
105.5		4.47		130.5		5.43		155.5		6.36		180.5		7.24	
106.0		4.49		131.0		5.45		156.0		6.38		181.0		7.26	
106.5		4.51		131.5		5.47		156.5		6.39		181.5		7.28	
107.0		4.53		132.0		5.49		157.0		6.41		182.0		7.30	
107.5		4.55		132.5		5.51		157.5		6.43		182.5		7.31	
108.0		4.57		133.0		5.53		158.0		6.45		183.0		7.33	
108.5		4.59		133.5		5.55		158.5		6.47		183.5		7.35	
109.0		4.61		134.0		5.57		159.0		6.48		184.0		7.37	
109.5		4.63		134.5		5.58		159.5		6.50		184.5		7.38	
110.0		4.65		135.0		5.60		160.0		6.52		185.0		7.40	
110.5		4.67		135.5		5.62		160.5		6.54		185.5		7.42	
111.0		4.69		136.0		5.64		161.0		6.56		186.0		7.43	
111.5		4.71		136.5		5.66		161.5		6.57		186.5		7.45	
112.0		4.73		137.0		5.68		162.0		6.59		187.0		7.47	
112.5		4.75		137.5		5.70		162.5		6.61		187.5		7.49	
113.0		4.77		138.0		5.71		163.0		6.63		188.0		7.50	
113.5		4.78		138.5		5.73		163.5		6.65		188.5		7.52	
114.0		4.80		139.0		5.75		164.0		6.66		189.0		7.54	
114.5		4.82		139.5		5.77		164.5		6.68		189.5		7.56	
115.0		4.84		140.0		5.79		165.0		6.70		190.0		7.57	
115.5		4.86		140.5		5.81		165.5		6.72		190.5		7.59	
116.0		4.88		141.0		5.83		166.0		6.73		191.0		7.61	
116.5		4.90		141.5		5.84		166.5		6.75		191.5		7.62	
117.0		4.92		142.0		5.86		167.0		6.77		192.0		7.64	
117.5		4.94		142.5		5.88		167.5		6.79		192.5		7.66	
118.0		4.96		143.0		5.90		168.0		6.81		193.0		7.67	
118.5		4.98		143.5		5.92		168.5		6.82		193.5		7.69	
119.0		5.00		144.0		5.94		169.0		6.84		194.0		7.71	
119.5		5.02		144.5		5.96		169.5		6.86		194.5		7.73	
120.0		5.04		145.0		5.97		170.0		6.88		195.0		7.74	
120.5		5.05		145.5		5.99		170.5		6.89		195.5		7.76	
121.0		5.07		146.0		6.01		171.0		6.91		196.0		7.78	
121.5		5.09		146.5		6.03		171.5		6.93		196.5		7.79	
122.0		5.11		147.0		6.05		172.0		6.95		197.0		7.81	
122.5		5.13		147.5		6.07		172.5		6.96		197.5		7.83	
123.0		5.15		148.0		6.08		173.0		6.98		198.0		7.84	
123.5		5.17		148.5		6.10		173.5		7.00		198.5		7.86	
124.0		5.19		149.0		6.12		174.0		7.02		199.0		7.88	
124.5		5.21		149.5		6.14		174.5		7.03		199.5		7.90	
125.0		5.23		150.0		6.16		175.0		7.05		200.0		7.91	

Temperature, °C									
atü	-	kg	atü	-	kg	atü	-	kg	
0.5	0.00		25.5	1.13		50.5	2.21	75.5	3.26
1.0	0.02		26.0	1.15		51.0	2.23	76.0	3.28
1.5	0.05		26.5	1.17		51.5	2.26	76.5	3.30
2.0	0.07		27.0	1.19		52.0	2.28	77.0	3.32
2.5	0.09		27.5	1.22		52.5	2.30	77.5	3.34
3.0	0.11		28.0	1.24		53.0	2.32	78.0	3.36
3.5	0.14		28.5	1.26		53.5	2.34	78.5	3.38
4.0	0.16		29.0	1.28		54.0	2.36	79.0	3.40
4.5	0.18		29.5	1.30		54.5	2.38	79.5	3.42
5.0	0.21		30.0	1.33		55.0	2.40	80.0	3.44
5.5	0.23		30.5	1.35		55.5	2.42	80.5	3.46
6.0	0.25		31.0	1.37		56.0	2.45	81.0	3.48
6.5	0.27		31.5	1.39		56.5	2.47	81.5	3.50
7.0	0.30		32.0	1.41		57.0	2.49	82.0	3.52
7.5	0.32		32.5	1.44		57.5	2.51	82.5	3.54
8.0	0.34		33.0	1.46		58.0	2.53	83.0	3.56
8.5	0.37		33.5	1.48		58.5	2.55	83.5	3.58
9.0	0.39		34.0	1.50		59.0	2.57	84.0	3.60
9.5	0.41		34.5	1.52		59.5	2.59	84.5	3.62
10.0	0.43		35.0	1.55		60.0	2.61	85.0	3.64
10.5	0.46		35.5	1.57		60.5	2.64	85.5	3.66
11.0	0.48		36.0	1.59		61.0	2.66	86.0	3.68
11.5	0.50		36.5	1.61		61.5	2.68	86.5	3.70
12.0	0.52		37.0	1.63		62.0	2.70	87.0	3.72
12.5	0.55		37.5	1.65		62.5	2.72	87.5	3.74
13.0	0.57		38.0	1.68		63.0	2.74	88.0	3.76
13.5	0.59		38.5	1.70		63.5	2.76	88.5	3.78
14.0	0.61		39.0	1.72		64.0	2.78	89.0	3.80
14.5	0.64		39.5	1.74		64.5	2.80	89.5	3.82
15.0	0.66		40.0	1.76		65.0	2.82	90.0	3.84
15.5	0.68		40.5	1.78		65.5	2.84	90.5	3.86
16.0	0.70		41.0	1.81		66.0	2.86	91.0	3.88
16.5	0.73		41.5	1.83		66.5	2.89	91.5	3.90
17.0	0.75		42.0	1.85		67.0	2.91	92.0	3.92
17.5	0.77		42.5	1.87		67.5	2.93	92.5	3.94
18.0	0.79		43.0	1.89		68.0	2.95	93.0	3.96
18.5	0.82		43.5	1.91		68.5	2.97	93.5	3.98
19.0	0.84		44.0	1.93		69.0	2.99	94.0	4.00
19.5	0.86		44.5	1.96		69.5	3.01	94.5	4.02
20.0	0.88		45.0	1.98		70.0	3.03	95.0	4.04
20.5	0.91		45.5	2.00		70.5	3.05	95.5	4.06
21.0	0.93		46.0	2.02		71.0	3.07	96.0	4.08
21.5	0.95		46.5	2.04		71.5	3.09	96.5	4.10
22.0	0.97		47.0	2.06		72.0	3.11	97.0	4.12
22.5	0.99		47.5	2.08		72.5	3.13	97.5	4.14
23.0	1.02		48.0	2.11		73.0	3.15	98.0	4.16
23.5	1.04		48.5	2.13		73.5	3.17	98.5	4.18
24.0	1.06		49.0	2.15		74.0	3.20	99.0	4.20
24.5	1.08		49.5	2.17		74.5	3.22	99.5	4.22
25.0	1.11		50.0	2.19		75.0	3.24	100.0	4.24

				Temperature, °C											
				7.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.26		125.5		5.23		150.5		6.15		175.5		7.04	
101.0		4.28		126.0		5.24		151.0		6.17		176.0		7.06	
101.5		4.30		126.5		5.26		151.5		6.19		176.5		7.08	
102.0		4.32		127.0		5.28		152.0		6.21		177.0		7.10	
102.5		4.34		127.5		5.30		152.5		6.23		177.5		7.11	
103.0		4.36		128.0		5.32		153.0		6.24		178.0		7.13	
103.5		4.38		128.5		5.34		153.5		6.26		178.5		7.15	
104.0		4.40		129.0		5.36		154.0		6.28		179.0		7.17	
104.5		4.42		129.5		5.38		154.5		6.30		179.5		7.18	
105.0		4.44		130.0		5.40		155.0		6.32		180.0		7.20	
105.5		4.46		130.5		5.41		155.5		6.33		180.5		7.22	
106.0		4.48		131.0		5.43		156.0		6.35		181.0		7.24	
106.5		4.50		131.5		5.45		156.5		6.37		181.5		7.25	
107.0		4.52		132.0		5.47		157.0		6.39		182.0		7.27	
107.5		4.53		132.5		5.49		157.5		6.41		182.5		7.29	
108.0		4.55		133.0		5.51		158.0		6.42		183.0		7.30	
108.5		4.57		133.5		5.53		158.5		6.44		183.5		7.32	
109.0		4.59		134.0		5.54		159.0		6.46		184.0		7.34	
109.5		4.61		134.5		5.56		159.5		6.48		184.5		7.36	
110.0		4.63		135.0		5.58		160.0		6.50		185.0		7.37	
110.5		4.65		135.5		5.60		160.5		6.51		185.5		7.39	
111.0		4.67		136.0		5.62		161.0		6.53		186.0		7.41	
111.5		4.69		136.5		5.64		161.5		6.55		186.5		7.43	
112.0		4.71		137.0		5.66		162.0		6.57		187.0		7.44	
112.5		4.73		137.5		5.68		162.5		6.59		187.5		7.46	
113.0		4.75		138.0		5.69		163.0		6.60		188.0		7.48	
113.5		4.77		138.5		5.71		163.5		6.62		188.5		7.49	
114.0		4.79		139.0		5.73		164.0		6.64		189.0		7.51	
114.5		4.81		139.5		5.75		164.5		6.66		189.5		7.53	
115.0		4.82		140.0		5.77		165.0		6.67		190.0		7.54	
115.5		4.84		140.5		5.79		165.5		6.69		190.5		7.56	
116.0		4.86		141.0		5.80		166.0		6.71		191.0		7.58	
116.5		4.88		141.5		5.82		166.5		6.73		191.5		7.60	
117.0		4.90		142.0		5.84		167.0		6.75		192.0		7.61	
117.5		4.92		142.5		5.86		167.5		6.76		192.5		7.63	
118.0		4.94		143.0		5.88		168.0		6.78		193.0		7.65	
118.5		4.96		143.5		5.90		168.5		6.80		193.5		7.66	
119.0		4.98		144.0		5.92		169.0		6.82		194.0		7.68	
119.5		5.00		144.5		5.93		169.5		6.83		194.5		7.70	
120.0		5.02		145.0		5.95		170.0		6.85		195.0		7.71	
120.5		5.04		145.5		5.97		170.5		6.87		195.5		7.73	
121.0		5.05		146.0		5.99		171.0		6.89		196.0		7.75	
121.5		5.07		146.5		6.01		171.5		6.90		196.5		7.77	
122.0		5.09		147.0		6.03		172.0		6.92		197.0		7.78	
122.5		5.11		147.5		6.04		172.5		6.94		197.5		7.80	
123.0		5.13		148.0		6.06		173.0		6.96		198.0		7.82	
123.5		5.15		148.5		6.08		173.5		6.97		198.5		7.83	
124.0		5.17		149.0		6.10		174.0		6.99		199.0		7.85	
124.5		5.19		149.5		6.12		174.5		7.01		199.5		7.87	
125.0		5.21		150.0		6.13		175.0		7.03		200.0		7.88	

Temperature, °F

44.6

8.0

Temperature, °C			
atü	- kg	atü	- kg
0.5	0.00	25.5	1.12
1.0	0.02	26.0	1.15
1.5	0.05	26.5	1.17
2.0	0.07	27.0	1.19
2.5	0.09	27.5	1.21
3.0	0.11	28.0	1.23
3.5	0.14	28.5	1.26
4.0	0.16	29.0	1.28
4.5	0.18	29.5	1.30
5.0	0.21	30.0	1.32
5.5	0.23	30.5	1.34
6.0	0.25	31.0	1.37
6.5	0.27	31.5	1.39
7.0	0.30	32.0	1.41
7.5	0.32	32.5	1.43
8.0	0.34	33.0	1.45
8.5	0.36	33.5	1.47
9.0	0.39	34.0	1.50
9.5	0.41	34.5	1.52
10.0	0.43	35.0	1.54
10.5	0.45	35.5	1.56
11.0	0.48	36.0	1.58
11.5	0.50	36.5	1.60
12.0	0.52	37.0	1.63
12.5	0.54	37.5	1.65
13.0	0.57	38.0	1.67
13.5	0.59	38.5	1.69
14.0	0.61	39.0	1.71
14.5	0.63	39.5	1.73
15.0	0.66	40.0	1.76
15.5	0.68	40.5	1.78
16.0	0.70	41.0	1.80
16.5	0.72	41.5	1.82
17.0	0.75	42.0	1.84
17.5	0.77	42.5	1.86
18.0	0.79	43.0	1.88
18.5	0.81	43.5	1.91
19.0	0.84	44.0	1.93
19.5	0.86	44.5	1.95
20.0	0.88	45.0	1.97
20.5	0.90	45.5	1.99
21.0	0.92	46.0	2.01
21.5	0.95	46.5	2.03
22.0	0.97	47.0	2.06
22.5	0.99	47.5	2.08
23.0	1.01	48.0	2.10
23.5	1.04	48.5	2.12
24.0	1.06	49.0	2.14
24.5	1.08	49.5	2.16
25.0	1.10	50.0	2.18
50.5	2.20	50.5	2.20
51.0	2.23	51.0	2.23
51.5	2.25	51.5	2.25
52.0	2.27	52.0	2.27
52.5	2.29	52.5	2.29
53.0	2.31	53.0	2.31
53.5	2.33	53.5	2.33
54.0	2.35	54.0	2.35
54.5	2.37	54.5	2.37
55.0	2.39	55.0	2.39
55.5	2.42	55.5	2.42
56.0	2.44	56.0	2.44
56.5	2.46	56.5	2.46
57.0	2.48	57.0	2.48
57.5	2.50	57.5	2.50
58.0	2.52	58.0	2.52
58.5	2.54	58.5	2.54
59.0	2.56	59.0	2.56
59.5	2.58	59.5	2.58
60.0	2.60	60.0	2.60
60.5	2.63	60.5	2.63
61.0	2.65	61.0	2.65
61.5	2.67	61.5	2.67
62.0	2.69	62.0	2.69
62.5	2.71	62.5	2.71
63.0	2.73	63.0	2.73
63.5	2.75	63.5	2.75
64.0	2.77	64.0	2.77
64.5	2.79	64.5	2.79
65.0	2.81	65.0	2.81
65.5	2.83	65.5	2.83
66.0	2.85	66.0	2.85
66.5	2.87	66.5	2.87
67.0	2.90	67.0	2.90
67.5	2.92	67.5	2.92
68.0	2.94	68.0	2.94
68.5	2.96	68.5	2.96
69.0	2.98	69.0	2.98
69.5	3.00	69.5	3.00
70.0	3.02	70.0	3.02
70.5	3.04	70.5	3.04
71.0	3.06	71.0	3.06
71.5	3.08	71.5	3.08
72.0	3.10	72.0	3.10
72.5	3.12	72.5	3.12
73.0	3.14	73.0	3.14
73.5	3.16	73.5	3.16
74.0	3.18	74.0	3.18
74.5	3.20	74.5	3.20
75.0	3.22	75.0	3.22
75.5	3.24	75.5	3.24
76.0	3.26	76.0	3.26
76.5	3.29	76.5	3.29
77.0	3.31	77.0	3.31
77.5	3.33	77.5	3.33
78.0	3.35	78.0	3.35
78.5	3.37	78.5	3.37
79.0	3.39	79.0	3.39
79.5	3.41	79.5	3.41
80.0	3.43	80.0	3.43
80.5	3.45	80.5	3.45
81.0	3.47	81.0	3.47
81.5	3.49	81.5	3.49
82.0	3.51	82.0	3.51
82.5	3.53	82.5	3.53
83.0	3.55	83.0	3.55
83.5	3.57	83.5	3.57
84.0	3.59	84.0	3.59
84.5	3.61	84.5	3.61
85.0	3.63	85.0	3.63
85.5	3.65	85.5	3.65
86.0	3.67	86.0	3.67
86.5	3.69	86.5	3.69
87.0	3.71	87.0	3.71
87.5	3.73	87.5	3.73
88.0	3.75	88.0	3.75
88.5	3.77	88.5	3.77
89.0	3.79	89.0	3.79
89.5	3.81	89.5	3.81
90.0	3.83	90.0	3.83
90.5	3.85	90.5	3.85
91.0	3.87	91.0	3.87
91.5	3.89	91.5	3.89
92.0	3.91	92.0	3.91
92.5	3.93	92.5	3.93
93.0	3.95	93.0	3.95
93.5	3.97	93.5	3.97
94.0	3.99	94.0	3.99
94.5	4.01	94.5	4.01
95.0	4.03	95.0	4.03
95.5	4.05	95.5	4.05
96.0	4.07	96.0	4.07
96.5	4.09	96.5	4.09
97.0	4.11	97.0	4.11
97.5	4.13	97.5	4.13
98.0	4.15	98.0	4.15
98.5	4.17	98.5	4.17
99.0	4.19	99.0	4.19
99.5	4.21	99.5	4.21
100.0	4.23	100.0	4.23

Temperature, °F

46.4

Temperature, °C

8.0

atü	-	kg	atü	--	kg	atü	-	kg	atü	-	kg
100.5		4.24	125.5		5.21	150.5		6.13	175.5		7.02
101.0		4.26	126.0		5.23	151.0		6.15	176.0		7.04
101.5		4.28	126.5		5.24	151.5		6.17	176.5		7.05
102.0		4.30	127.0		5.26	152.0		6.18	177.0		7.07
102.5		4.32	127.5		5.28	152.5		6.20	177.5		7.09
103.0		4.34	128.0		5.30	153.0		6.22	178.0		7.11
103.5		4.36	128.5		5.32	153.5		6.24	178.5		7.12
104.0		4.38	129.0		5.34	154.0		6.26	179.0		7.14
104.5		4.40	129.5		5.36	154.5		6.27	179.5		7.16
105.0		4.42	130.0		5.38	155.0		6.29	180.0		7.17
105.5		4.44	130.5		5.39	155.5		6.31	180.5		7.19
106.0		4.46	131.0		5.41	156.0		6.33	181.0		7.21
106.5		4.48	131.5		5.43	156.5		6.35	181.5		7.23
107.0		4.50	132.0		5.45	157.0		6.36	182.0		7.24
107.5		4.52	132.5		5.47	157.5		6.38	182.5		7.26
108.0		4.54	133.0		5.49	158.0		6.40	183.0		7.28
108.5		4.56	133.5		5.51	158.5		6.42	183.5		7.30
109.0		4.58	134.0		5.52	159.0		6.44	184.0		7.31
109.5		4.60	134.5		5.54	159.5		6.45	184.5		7.33
110.0		4.61	135.0		5.56	160.0		6.47	185.0		7.35
110.5		4.63	135.5		5.58	160.5		6.49	185.5		7.36
111.0		4.65	136.0		5.60	161.0		6.51	186.0		7.38
111.5		4.67	136.5		5.62	161.5		6.53	186.5		7.40
112.0		4.69	137.0		5.64	162.0		6.54	187.0		7.42
112.5		4.71	137.5		5.65	162.5		6.56	187.5		7.43
113.0		4.73	138.0		5.67	163.0		6.58	188.0		7.45
113.5		4.75	138.5		5.69	163.5		6.60	188.5		7.47
114.0		4.77	139.0		5.71	164.0		6.61	189.0		7.48
114.5		4.79	139.5		5.73	164.5		6.63	189.5		7.50
115.0		4.81	140.0		5.75	165.0		6.65	190.0		7.52
115.5		4.83	140.5		5.77	165.5		6.67	190.5		7.53
116.0		4.85	141.0		5.78	166.0		6.69	191.0		7.55
116.5		4.86	141.5		5.80	166.5		6.70	191.5		7.57
117.0		4.88	142.0		5.82	167.0		6.72	192.0		7.59
117.5		4.90	142.5		5.84	167.5		6.74	192.5		7.60
118.0		4.92	143.0		5.86	168.0		6.76	193.0		7.62
118.5		4.94	143.5		5.88	168.5		6.77	193.5		7.64
119.0		4.96	144.0		5.89	169.0		6.79	194.0		7.65
119.5		4.98	144.5		5.91	169.5		6.81	194.5		7.67
120.0		5.00	145.0		5.93	170.0		6.83	195.0		7.69
120.5		5.02	145.5		5.95	170.5		6.84	195.5		7.70
121.0		5.04	146.0		5.97	171.0		6.86	196.0		7.72
121.5		5.05	146.5		5.98	171.5		6.88	196.5		7.74
122.0		5.07	147.0		6.00	172.0		6.90	197.0		7.75
122.5		5.09	147.5		6.02	172.5		6.91	197.5		7.77
123.0		5.11	148.0		6.04	173.0		6.93	198.0		7.79
123.5		5.13	148.5		6.06	173.5		6.95	198.5		7.80
124.0		5.15	149.0		6.08	174.0		6.97	199.0		7.82
124.5		5.17	149.5		6.09	174.5		6.98	199.5		7.84
125.0		5.19	150.0		6.11	175.0		7.00	200.0		7.85

Temperature, °F

46.4

				Temperature, °C											
				9.0											
atū	-	kg		atū	-	kg		atū	-	kg		atū	-	kg	
0.5	0.00			25.5	1.12			50.5	2.20			75.5	3.23		
1.0	0.02			26.0	1.14			51.0	2.22			76.0	3.25		
1.5	0.05			26.5	1.16			51.5	2.24			76.5	3.27		
2.0	0.07			27.0	1.19			52.0	2.26			77.0	3.29		
2.5	0.09			27.5	1.21			52.5	2.28			77.5	3.31		
3.0	0.11			28.0	1.23			53.0	2.30			78.0	3.33		
3.5	0.14			28.5	1.25			53.5	2.32			78.5	3.35		
4.0	0.16			29.0	1.27			54.0	2.34			79.0	3.37		
4.5	0.18			29.5	1.29			54.5	2.36			79.5	3.39		
5.0	0.20			30.0	1.32			55.0	2.39			80.0	3.41		
5.5	0.23			30.5	1.34			55.5	2.41			80.5	3.43		
6.0	0.25			31.0	1.36			56.0	2.43			81.0	3.46		
6.5	0.27			31.5	1.38			56.5	2.45			81.5	3.48		
7.0	0.30			32.0	1.40			57.0	2.47			82.0	3.50		
7.5	0.32			32.5	1.43			57.5	2.49			82.5	3.52		
8.0	0.34			33.0	1.45			58.0	2.51			83.0	3.54		
8.5	0.36			33.5	1.47			58.5	2.53			83.5	3.56		
9.0	0.39			34.0	1.49			59.0	2.55			84.0	3.58		
9.5	0.41			34.5	1.51			59.5	2.57			84.5	3.60		
10.0	0.43			35.0	1.53			60.0	2.59			85.0	3.62		
10.5	0.45			35.5	1.56			60.5	2.62			85.5	3.64		
11.0	0.48			36.0	1.58			61.0	2.64			86.0	3.66		
11.5	0.50			36.5	1.60			61.5	2.66			86.5	3.68		
12.0	0.52			37.0	1.62			62.0	2.68			87.0	3.70		
12.5	0.54			37.5	1.64			62.5	2.70			87.5	3.72		
13.0	0.57			38.0	1.66			63.0	2.72			88.0	3.74		
13.5	0.59			38.5	1.68			63.5	2.74			88.5	3.76		
14.0	0.61			39.0	1.71			64.0	2.76			89.0	3.78		
14.5	0.63			39.5	1.73			64.5	2.78			89.5	3.80		
15.0	0.65			40.0	1.75			65.0	2.80			90.0	3.82		
15.5	0.68			40.5	1.77			65.5	2.82			90.5	3.84		
16.0	0.70			41.0	1.79			66.0	2.84			91.0	3.85		
16.5	0.72			41.5	1.81			66.5	2.86			91.5	3.87		
17.0	0.74			42.0	1.83			67.0	2.88			92.0	3.89		
17.5	0.77			42.5	1.86			67.5	2.91			92.5	3.91		
18.0	0.79			43.0	1.88			68.0	2.93			93.0	3.93		
18.5	0.81			43.5	1.90			68.5	2.95			93.5	3.95		
19.0	0.83			44.0	1.92			69.0	2.97			94.0	3.97		
19.5	0.85			44.5	1.94			69.5	2.99			94.5	3.99		
20.0	0.88			45.0	1.96			70.0	3.01			95.0	4.01		
20.5	0.90			45.5	1.98			70.5	3.03			95.5	4.03		
21.0	0.92			46.0	2.01			71.0	3.05			96.0	4.05		
21.5	0.94			46.5	2.03			71.5	3.07			96.5	4.07		
22.0	0.97			47.0	2.05			72.0	3.09			97.0	4.09		
22.5	0.99			47.5	2.07			72.5	3.11			97.5	4.11		
23.0	1.01			48.0	2.09			73.0	3.13			98.0	4.13		
23.5	1.03			48.5	2.11			73.5	3.15			98.5	4.15		
24.0	1.05			49.0	2.13			74.0	3.17			99.0	4.17		
24.5	1.08			49.5	2.15			74.5	3.19			99.5	4.19		
25.0	1.10			50.0	2.18			75.0	3.21			100.0	4.21		

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
100.5	4.23	125.5	5.19	150.5	6.11	175.5	6.99
101.0	4.25	126.0	5.21	151.0	6.13	176.0	7.01
101.5	4.27	126.5	5.22	151.5	6.14	176.5	7.03
102.0	4.29	127.0	5.24	152.0	6.16	177.0	7.04
102.5	4.31	127.5	5.26	152.5	6.18	177.5	7.06
103.0	4.33	128.0	5.28	153.0	6.20	178.0	7.08
103.5	4.35	128.5	5.30	153.5	6.22	178.5	7.10
104.0	4.37	129.0	5.32	154.0	6.23	179.0	7.11
104.5	4.38	129.5	5.34	154.5	6.25	179.5	7.13
105.0	4.40	130.0	5.36	155.0	6.27	180.0	7.15
105.5	4.42	130.5	5.37	155.5	6.29	180.5	7.17
106.0	4.44	131.0	5.39	156.0	6.31	181.0	7.18
106.5	4.46	131.5	5.41	156.5	6.32	181.5	7.20
107.0	4.48	132.0	5.43	157.0	6.34	182.0	7.22
107.5	4.50	132.5	5.45	157.5	6.36	182.5	7.23
108.0	4.52	133.0	5.47	158.0	6.38	183.0	7.25
108.5	4.54	133.5	5.49	158.5	6.39	183.5	7.27
109.0	4.56	134.0	5.50	159.0	6.41	184.0	7.29
109.5	4.58	134.5	5.52	159.5	6.43	184.5	7.30
110.0	4.60	135.0	5.54	160.0	6.45	185.0	7.32
110.5	4.62	135.5	5.56	160.5	6.47	185.5	7.34
111.0	4.64	136.0	5.58	161.0	6.48	186.0	7.35
111.5	4.66	136.5	5.60	161.5	6.50	186.5	7.37
112.0	4.67	137.0	5.62	162.0	6.52	187.0	7.39
112.5	4.69	137.5	5.63	162.5	6.54	187.5	7.41
113.0	4.71	138.0	5.65	163.0	6.55	188.0	7.42
113.5	4.73	138.5	5.67	163.5	6.57	188.5	7.44
114.0	4.75	139.0	5.69	164.0	6.59	189.0	7.46
114.5	4.77	139.5	5.71	164.5	6.61	189.5	7.47
115.0	4.79	140.0	5.73	165.0	6.63	190.0	7.49
115.5	4.81	140.5	5.74	165.5	6.64	190.5	7.51
116.0	4.83	141.0	5.76	166.0	6.66	191.0	7.52
116.5	4.85	141.5	5.78	166.5	6.68	191.5	7.54
117.0	4.87	142.0	5.80	167.0	6.70	192.0	7.56
117.5	4.88	142.5	5.82	167.5	6.71	192.5	7.57
118.0	4.90	143.0	5.84	168.0	6.73	193.0	7.59
118.5	4.92	143.5	5.85	168.5	6.75	193.5	7.61
119.0	4.94	144.0	5.87	169.0	6.77	194.0	7.63
119.5	4.96	144.5	5.89	169.5	6.78	194.5	7.64
120.0	4.98	145.0	5.91	170.0	6.80	195.0	7.66
120.5	5.00	145.5	5.93	170.5	6.82	195.5	7.68
121.0	5.02	146.0	5.94	171.0	6.84	196.0	7.69
121.5	5.04	146.5	5.96	171.5	6.85	196.5	7.71
122.0	5.06	147.0	5.98	172.0	6.87	197.0	7.73
122.5	5.07	147.5	6.00	172.5	6.89	197.5	7.74
123.0	5.09	148.0	6.02	173.0	6.91	198.0	7.76
123.5	5.11	148.5	6.04	173.5	6.92	198.5	7.78
124.0	5.13	149.0	6.05	174.0	6.94	199.0	7.79
124.5	5.15	149.5	6.07	174.5	6.96	199.5	7.81
125.0	5.17	150.0	6.09	175.0	6.98	200.0	7.83

Temperature, °F

48.2

Temperature, °C							
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.12	50.5	2.19	75.5	3.22
1.0	0.02	26.0	1.14	51.0	2.21	76.0	3.24
1.5	0.05	26.5	1.16	51.5	2.23	76.5	3.26
2.0	0.07	27.0	1.18	52.0	2.25	77.0	3.28
2.5	0.09	27.5	1.20	52.5	2.27	77.5	3.30
3.0	0.11	28.0	1.22	53.0	2.29	78.0	3.32
3.5	0.14	28.5	1.25	53.5	2.31	78.5	3.34
4.0	0.16	29.0	1.27	54.0	2.34	79.0	3.36
4.5	0.18	29.5	1.29	54.5	2.36	79.5	3.38
5.0	0.20	30.0	1.31	55.0	2.38	80.0	3.40
5.5	0.23	30.5	1.33	55.5	2.40	80.5	3.42
6.0	0.25	31.0	1.35	56.0	2.42	81.0	3.44
6.5	0.27	31.5	1.38	56.5	2.44	81.5	3.46
7.0	0.29	32.0	1.40	57.0	2.46	82.0	3.48
7.5	0.32	32.5	1.42	57.5	2.48	82.5	3.50
8.0	0.34	33.0	1.44	58.0	2.50	83.0	3.52
8.5	0.36	33.5	1.46	58.5	2.52	83.5	3.54
9.0	0.38	34.0	1.48	59.0	2.54	84.0	3.56
9.5	0.41	34.5	1.51	59.5	2.56	84.5	3.58
10.0	0.43	35.0	1.53	60.0	2.59	85.0	3.60
10.5	0.45	35.5	1.55	60.5	2.61	85.5	3.62
11.0	0.47	36.0	1.57	61.0	2.63	86.0	3.64
11.5	0.50	36.5	1.59	61.5	2.65	86.5	3.66
12.0	0.52	37.0	1.61	62.0	2.67	87.0	3.68
12.5	0.54	37.5	1.64	62.5	2.69	87.5	3.70
13.0	0.56	38.0	1.66	63.0	2.71	88.0	3.72
13.5	0.59	38.5	1.68	63.5	2.73	88.5	3.74
14.0	0.61	39.0	1.70	64.0	2.75	89.0	3.76
14.5	0.63	39.5	1.72	64.5	2.77	89.5	3.78
15.0	0.65	40.0	1.74	65.0	2.79	90.0	3.80
15.5	0.67	40.5	1.76	65.5	2.81	90.5	3.82
16.0	0.70	41.0	1.79	66.0	2.83	91.0	3.84
16.5	0.72	41.5	1.81	66.5	2.85	91.5	3.86
17.0	0.74	42.0	1.83	67.0	2.87	92.0	3.88
17.5	0.76	42.5	1.85	67.5	2.89	92.5	3.90
18.0	0.79	43.0	1.87	68.0	2.92	93.0	3.92
18.5	0.81	43.5	1.89	68.5	2.94	93.5	3.94
19.0	0.83	44.0	1.91	69.0	2.96	94.0	3.96
19.5	0.85	44.5	1.93	69.5	2.98	94.5	3.98
20.0	0.87	45.0	1.96	70.0	3.00	95.0	4.00
20.5	0.90	45.5	1.98	70.5	3.02	95.5	4.02
21.0	0.92	46.0	2.00	71.0	3.04	96.0	4.04
21.5	0.94	46.5	2.02	71.5	3.06	96.5	4.06
22.0	0.96	47.0	2.04	72.0	3.08	97.0	4.08
22.5	0.98	47.5	2.06	72.5	3.10	97.5	4.10
23.0	1.01	48.0	2.08	73.0	3.12	98.0	4.12
23.5	1.03	48.5	2.10	73.5	3.14	98.5	4.14
24.0	1.05	49.0	2.13	74.0	3.16	99.0	4.15
24.5	1.07	49.5	2.15	74.5	3.18	99.5	4.17
25.0	1.09	50.0	2.17	75.0	3.20	100.0	4.19

Temperature, °F

50.0

				Temperature, °C											
				10.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.21		125.5		5.17		150.5		6.09		175.5		6.97	
101.0		4.23		126.0		5.19		151.0		6.10		176.0		6.98	
101.5		4.25		126.5		5.21		151.5		6.12		176.5		7.00	
102.0		4.27		127.0		5.22		152.0		6.14		177.0		7.02	
102.5		4.29		127.5		5.24		152.5		6.16		177.5		7.04	
103.0		4.31		128.0		5.26		153.0		6.18		178.0		7.05	
103.5		4.33		128.5		5.28		153.5		6.19		178.5		7.07	
104.0		4.35		129.0		5.30		154.0		6.21		179.0		7.09	
104.5		4.37		129.5		5.32		154.5		6.23		179.5		7.11	
105.0		4.39		130.0		5.34		155.0		6.25		180.0		7.12	
105.5		4.41		130.5		5.35		155.5		6.26		180.5		7.14	
106.0		4.43		131.0		5.37		156.0		6.28		181.0		7.16	
106.5		4.45		131.5		5.39		156.5		6.30		181.5		7.17	
107.0		4.47		132.0		5.41		157.0		6.32		182.0		7.19	
107.5		4.48		132.5		5.43		157.5		6.34		182.5		7.21	
108.0		4.50		133.0		5.45		158.0		6.35		183.0		7.23	
108.5		4.52		133.5		5.47		158.5		6.37		183.5		7.24	
109.0		4.54		134.0		5.48		159.0		6.39		184.0		7.26	
109.5		4.56		134.5		5.50		159.5		6.41		184.5		7.28	
110.0		4.58		135.0		5.52		160.0		6.42		185.0		7.29	
110.5		4.60		135.5		5.54		160.5		6.44		185.5		7.31	
111.0		4.62		136.0		5.56		161.0		6.46		186.0		7.33	
111.5		4.64		136.5		5.58		161.5		6.48		186.5		7.34	
112.0		4.66		137.0		5.59		162.0		6.50		187.0		7.36	
112.5		4.68		137.5		5.61		162.5		6.51		187.5		7.38	
113.0		4.70		138.0		5.63		163.0		6.53		188.0		7.40	
113.5		4.71		138.5		5.65		163.5		6.55		188.5		7.41	
114.0		4.73		139.0		5.67		164.0		6.57		189.0		7.43	
114.5		4.75		139.5		5.69		164.5		6.58		189.5		7.45	
115.0		4.77		140.0		5.70		165.0		6.60		190.0		7.46	
115.5		4.79		140.5		5.72		165.5		6.62		190.5		7.48	
116.0		4.81		141.0		5.74		166.0		6.64		191.0		7.50	
116.5		4.83		141.5		5.76		166.5		6.65		191.5		7.51	
117.0		4.85		142.0		5.78		167.0		6.67		192.0		7.53	
117.5		4.87		142.5		5.80		167.5		6.69		192.5		7.55	
118.0		4.89		143.0		5.81		168.0		6.71		193.0		7.56	
118.5		4.90		143.5		5.83		168.5		6.72		193.5		7.58	
119.0		4.92		144.0		5.85		169.0		6.74		194.0		7.60	
119.5		4.94		144.5		5.87		169.5		6.76		194.5		7.61	
120.0		4.96		145.0		5.89		170.0		6.78		195.0		7.63	
120.5		4.98		145.5		5.90		170.5		6.79		195.5		7.65	
121.0		5.00		146.0		5.92		171.0		6.81		196.0		7.66	
121.5		5.02		146.5		5.94		171.5		6.83		196.5		7.68	
122.0		5.04		147.0		5.96		172.0		6.85		197.0		7.70	
122.5		5.06		147.5		5.98		172.5		6.86		197.5		7.71	
123.0		5.07		148.0		6.00		173.0		6.88		198.0		7.73	
123.5		5.09		148.5		6.01		173.5		6.90		198.5		7.74	
124.0		5.11		149.0		6.03		174.0		6.92		199.0		7.77	
124.5		5.13		149.5		6.05		174.5		6.93		199.5		7.78	
125.0		5.15		150.0		6.07		175.0		6.95		200.0		7.80	

Temperature, °F

50.0

				Temperature, °C											
				11.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.11		50.5		2.18		75.5		3.21	
1.0		0.02		26.0		1.13		51.0		2.20		76.0		3.23	
1.5		0.05		26.5		1.15		51.5		2.22		76.5		3.25	
2.0		0.07		27.0		1.18		52.0		2.24		77.0		3.27	
2.5		0.09		27.5		1.20		52.5		2.26		77.5		3.29	
3.0		0.11		28.0		1.22		53.0		2.28		78.0		3.31	
3.5		0.14		28.5		1.24		53.5		2.31		78.5		3.33	
4.0		0.16		29.0		1.26		54.0		2.33		79.0		3.35	
4.5		0.18		29.5		1.28		54.5		2.35		79.5		3.37	
5.0		0.20		30.0		1.31		55.0		2.37		80.0		3.39	
5.5		0.23		30.5		1.33		55.5		2.39		80.5		3.41	
6.0		0.25		31.0		1.35		56.0		2.41		81.0		3.43	
6.5		0.27		31.5		1.37		56.5		2.43		81.5		3.45	
7.0		0.29		32.0		1.39		57.0		2.45		82.0		3.47	
7.5		0.32		32.5		1.41		57.5		2.47		82.5		3.49	
8.0		0.34		33.0		1.44		58.0		2.49		83.0		3.51	
8.5		0.36		33.5		1.46		58.5		2.51		83.5		3.53	
9.0		0.38		34.0		1.48		59.0		2.53		84.0		3.55	
9.5		0.40		34.5		1.50		59.5		2.55		84.5		3.57	
10.0		0.43		35.0		1.52		60.0		2.58		85.0		3.59	
10.5		0.45		35.5		1.54		60.5		2.60		85.5		3.61	
11.0		0.47		36.0		1.57		61.0		2.62		86.0		3.63	
11.5		0.49		36.5		1.59		61.5		2.64		86.5		3.65	
12.0		0.52		37.0		1.61		62.0		2.66		87.0		3.67	
12.5		0.54		37.5		1.63		62.5		2.68		87.5		3.69	
13.0		0.56		38.0		1.65		63.0		2.70		88.0		3.71	
13.5		0.58		38.5		1.67		63.5		2.72		88.5		3.73	
14.0		0.61		39.0		1.69		64.0		2.74		89.0		3.75	
14.5		0.63		39.5		1.71		64.5		2.76		89.5		3.77	
15.0		0.65		40.0		1.74		65.0		2.78		90.0		3.79	
15.5		0.67		40.5		1.76		65.5		2.80		90.5		3.81	
16.0		0.69		41.0		1.78		66.0		2.82		91.0		3.83	
16.5		0.72		41.5		1.80		66.5		2.84		91.5		3.85	
17.0		0.74		42.0		1.82		67.0		2.86		92.0		3.87	
17.5		0.76		42.5		1.84		67.5		2.88		92.5		3.89	
18.0		0.78		43.0		1.86		68.0		2.90		93.0		3.90	
18.5		0.80		43.5		1.88		68.5		2.92		93.5		3.92	
19.0		0.83		44.0		1.91		69.0		2.94		94.0		3.94	
19.5		0.85		44.5		1.93		69.5		2.97		94.5		3.96	
20.0		0.87		45.0		1.95		70.0		2.99		95.0		3.98	
20.5		0.89		45.5		1.97		70.5		3.01		95.5		4.00	
21.0		0.91		46.0		1.99		71.0		3.03		96.0		4.02	
21.5		0.94		46.5		2.01		71.5		3.05		96.5		4.04	
22.0		0.96		47.0		2.03		72.0		3.07		97.0		4.06	
22.5		0.98		47.5		2.05		72.5		3.09		97.5		4.08	
23.0		1.00		48.0		2.08		73.0		3.11		98.0		4.10	
23.5		1.02		48.5		2.10		73.5		3.13		98.5		4.12	
24.0		1.05		49.0		2.12		74.0		3.15		99.0		4.14	
24.5		1.07		49.5		2.14		74.5		3.17		99.5		4.16	
25.0		1.09		50.0		2.16		75.0		3.19		100.0		4.18	

Temperature, °F

51.8

				Temperature, °C											
				11.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.20		125.5		5.15		150.5		6.06		175.5		6.94	
101.0		4.22		126.0		5.17		151.0		6.08		176.0		6.96	
101.5		4.24		126.5		5.19		151.5		6.10		176.5		6.98	
102.0		4.26		127.0		5.20		152.0		6.12		177.0		6.99	
102.5		4.28		127.5		5.22		152.5		6.13		177.5		7.01	
103.0		4.29		128.0		5.24		153.0		6.15		178.0		7.03	
103.5		4.31		128.5		5.26		153.5		6.17		178.5		7.05	
104.0		4.33		129.0		5.28		154.0		6.19		179.0		7.06	
104.5		4.35		129.5		5.30		154.5		6.21		179.5		7.08	
105.0		4.37		130.0		5.32		155.0		6.22		180.0		7.10	
105.5		4.39		130.5		5.33		155.5		6.24		180.5		7.11	
106.0		4.41		131.0		5.35		156.0		6.26		181.0		7.13	
106.5		4.43		131.5		5.37		156.5		6.28		181.5		7.15	
107.0		4.45		132.0		5.39		157.0		6.30		182.0		7.16	
107.5		4.47		132.5		5.41		157.5		6.31		182.5		7.18	
108.0		4.49		133.0		5.43		158.0		6.33		183.0		7.20	
108.5		4.51		133.5		5.45		158.5		6.35		183.5		7.22	
109.0		4.53		134.0		5.46		159.0		6.37		184.0		7.23	
109.5		4.54		134.5		5.48		159.5		6.38		184.5		7.25	
110.0		4.56		135.0		5.50		160.0		6.40		185.0		7.27	
110.5		4.58		135.5		5.52		160.5		6.42		185.5		7.28	
111.0		4.60		136.0		5.54		161.0		6.44		186.0		7.30	
111.5		4.62		136.5		5.56		161.5		6.45		186.5		7.32	
112.0		4.64		137.0		5.57		162.0		6.47		187.0		7.33	
112.5		4.66		137.5		5.59		162.5		6.49		187.5		7.35	
113.0		4.68		138.0		5.61		163.0		6.51		188.0		7.37	
113.5		4.70		138.5		5.63		163.5		6.52		188.5		7.39	
114.0		4.72		139.0		5.65		164.0		6.54		189.0		7.40	
114.5		4.73		139.5		5.67		164.5		6.56		189.5		7.42	
115.0		4.75		140.0		5.68		165.0		6.58		190.0		7.44	
115.5		4.77		140.5		5.70		165.5		6.59		190.5		7.45	
116.0		4.79		141.0		5.72		166.0		6.61		191.0		7.47	
116.5		4.81		141.5		5.74		166.5		6.63		191.5		7.49	
117.0		4.83		142.0		5.76		167.0		6.65		192.0		7.50	
117.5		4.85		142.5		5.77		167.5		6.66		192.5		7.52	
118.0		4.87		143.0		5.79		168.0		6.68		193.0		7.54	
118.5		4.89		143.5		5.81		168.5		6.70		193.5		7.55	
119.0		4.91		144.0		5.83		169.0		6.72		194.0		7.57	
119.5		4.92		144.5		5.85		169.5		6.73		194.5		7.59	
120.0		4.94		145.0		5.87		170.0		6.75		195.0		7.60	
120.5		4.96		145.5		5.88		170.5		6.77		195.5		7.62	
121.0		4.98		146.0		5.90		171.0		6.79		196.0		7.64	
121.5		5.00		146.5		5.92		171.5		6.80		196.5		7.65	
122.0		5.02		147.0		5.94		172.0		6.82		197.0		7.67	
122.5		5.04		147.5		5.96		172.5		6.84		197.5		7.69	
123.0		5.06		148.0		5.97		173.0		6.86		198.0		7.70	
123.5		5.07		148.5		5.99		173.5		6.87		198.5		7.72	
124.0		5.09		149.0		6.01		174.0		6.89		199.0		7.74	
124.5		5.11		149.5		6.03		174.5		6.91		199.5		7.75	
125.0		5.13		150.0		6.05		175.0		6.92		200.0		7.77	

Temperature, °F

51.8

				Temperature, °C											
				12.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.11		50.5		2.17		75.5		3.20	
1.0		0.02		26.0		1.13		51.0		2.19		76.0		3.22	
1.5		0.05		26.5		1.15		51.5		2.21		76.5		3.24	
2.0		0.07		27.0		1.17		52.0		2.23		77.0		3.26	
2.5		0.09		27.5		1.19		52.5		2.26		77.5		3.28	
3.0		0.11		28.0		1.22		53.0		2.28		78.0		3.30	
3.5		0.14		28.5		1.24		53.5		2.30		78.5		3.32	
4.0		0.16		29.0		1.26		54.0		2.32		79.0		3.34	
4.5		0.18		29.5		1.28		54.5		2.34		79.5		3.36	
5.0		0.20		30.0		1.30		55.0		2.36		80.0		3.38	
5.5		0.22		30.5		1.32		55.5		2.38		80.5		3.40	
6.0		0.25		31.0		1.34		56.0		2.40		81.0		3.42	
6.5		0.27		31.5		1.37		56.5		2.42		81.5		3.44	
7.0		0.29		32.0		1.39		57.0		2.44		82.0		3.46	
7.5		0.31		32.5		1.41		57.5		2.46		82.5		3.48	
8.0		0.34		33.0		1.43		58.0		2.48		83.0		3.50	
8.5		0.36		33.5		1.45		58.5		2.50		83.5		3.52	
9.0		0.38		34.0		1.47		59.0		2.52		84.0		3.54	
9.5		0.40		34.5		1.50		59.5		2.55		84.5		3.56	
10.0		0.43		35.0		1.52		60.0		2.57		85.0		3.58	
10.5		0.45		35.5		1.54		60.5		2.59		85.5		3.60	
11.0		0.47		36.0		1.56		61.0		2.61		86.0		3.62	
11.5		0.49		36.5		1.58		61.5		2.63		86.5		3.63	
12.0		0.51		37.0		1.60		62.0		2.65		87.0		3.65	
12.5		0.54		37.5		1.62		62.5		2.67		87.5		3.67	
13.0		0.56		38.0		1.64		63.0		2.69		88.0		3.69	
13.5		0.58		38.5		1.67		63.5		2.71		88.5		3.71	
14.0		0.60		39.0		1.69		64.0		2.73		89.0		3.73	
14.5		0.63		39.5		1.71		64.5		2.75		89.5		3.75	
15.0		0.65		40.0		1.73		65.0		2.77		90.0		3.77	
15.5		0.67		40.5		1.75		65.5		2.79		90.5		3.79	
16.0		0.69		41.0		1.77		66.0		2.81		91.0		3.81	
16.5		0.71		41.5		1.79		66.5		2.83		91.5		3.83	
17.0		0.74		42.0		1.81		67.0		2.85		92.0		3.85	
17.5		0.76		42.5		1.84		67.5		2.87		92.5		3.87	
18.0		0.78		43.0		1.86		68.0		2.89		93.0		3.89	
18.5		0.80		43.5		1.88		68.5		2.91		93.5		3.91	
19.0		0.82		44.0		1.90		69.0		2.93		94.0		3.93	
19.5		0.85		44.5		1.92		69.5		2.95		94.5		3.95	
20.0		0.87		45.0		1.94		70.0		2.97		95.0		3.97	
20.5		0.89		45.5		1.96		70.5		2.99		95.5		3.99	
21.0		0.91		46.0		1.98		71.0		3.02		96.0		4.01	
21.5		0.93		46.5		2.00		71.5		3.04		96.5		4.03	
22.0		0.95		47.0		2.03		72.0		3.06		97.0		4.05	
22.5		0.98		47.5		2.05		72.5		3.08		97.5		4.07	
23.0		1.00		48.0		2.07		73.0		3.10		98.0		4.09	
23.5		1.02		48.5		2.09		73.5		3.12		98.5		4.10	
24.0		1.04		49.0		2.11		74.0		3.14		99.0		4.12	
24.5		1.06		49.5		2.13		74.5		3.16		99.5		4.14	
25.0		1.09		50.0		2.15		75.0		3.18		100.0		4.16	

Temperature, °F

53.6

				Temperature, °C							
				12.0							
atü	-	kg	atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.18	125.5		5.13	150.5		6.04	175.5		6.92
101.0		4.20	126.0		5.15	151.0		6.06	176.0		6.93
101.5		4.22	126.5		5.17	151.5		6.08	176.5		6.95
102.0		4.24	127.0		5.19	152.0		6.09	177.0		6.97
102.5		4.26	127.5		5.20	152.5		6.11	177.5		6.99
103.0		4.28	128.0		5.22	153.0		6.13	178.0		7.00
103.5		4.30	128.5		5.24	153.5		6.15	178.5		7.02
104.0		4.32	129.0		5.26	154.0		6.17	179.0		7.04
104.5		4.34	129.5		5.28	154.5		6.18	179.5		7.05
105.0		4.36	130.0		5.30	155.0		6.20	180.0		7.07
105.5		4.37	130.5		5.31	155.5		6.22	180.5		7.09
106.0		4.39	131.0		5.33	156.0		6.24	181.0		7.10
106.5		4.41	131.5		5.35	156.5		6.25	181.5		7.12
107.0		4.43	132.0		5.37	157.0		6.27	182.0		7.14
107.5		4.45	132.5		5.39	157.5		6.29	182.5		7.16
108.0		4.47	133.0		5.41	158.0		6.31	183.0		7.17
108.5		4.49	133.5		5.43	158.5		6.32	183.5		7.19
109.0		4.51	134.0		5.44	159.0		6.34	184.0		7.21
109.5		4.53	134.5		5.46	159.5		6.36	184.5		7.22
110.0		4.55	135.0		5.48	160.0		6.38	185.0		7.24
110.5		4.57	135.5		5.50	160.5		6.40	185.5		7.26
111.0		4.58	136.0		5.52	161.0		6.41	186.0		7.27
111.5		4.60	136.5		5.54	161.5		6.43	186.5		7.29
112.0		4.62	137.0		5.55	162.0		6.45	187.0		7.31
112.5		4.64	137.5		5.57	162.5		6.47	187.5		7.32
113.0		4.66	138.0		5.59	163.0		6.48	188.0		7.34
113.5		4.68	138.5		5.61	163.5		6.50	188.5		7.36
114.0		4.70	139.0		5.63	164.0		6.52	189.0		7.38
114.5		4.72	139.5		5.64	164.5		6.54	189.5		7.39
115.0		4.74	140.0		5.66	165.0		6.55	190.0		7.41
115.5		4.76	140.5		5.68	165.5		6.57	190.5		7.43
116.0		4.77	141.0		5.70	166.0		6.59	191.0		7.44
116.5		4.79	141.5		5.72	166.5		6.61	191.5		7.46
117.0		4.81	142.0		5.74	167.0		6.62	192.0		7.48
117.5		4.83	142.5		5.75	167.5		6.64	192.5		7.49
118.0		4.85	143.0		5.77	168.0		6.66	193.0		7.51
118.5		4.87	143.5		5.79	168.5		6.67	193.5		7.53
119.0		4.89	144.0		5.81	169.0		6.69	194.0		7.54
119.5		4.91	144.5		5.83	169.5		6.71	194.5		7.56
120.0		4.92	145.0		5.84	170.0		6.73	195.0		7.58
120.5		4.94	145.5		5.86	170.5		6.74	195.5		7.59
121.0		4.96	146.0		5.88	171.0		6.76	196.0		7.61
121.5		4.98	146.5		5.90	171.5		6.78	196.5		7.63
122.0		5.00	147.0		5.92	172.0		6.80	197.0		7.64
122.5		5.02	147.5		5.93	172.5		6.81	197.5		7.66
123.0		5.04	148.0		5.95	173.0		6.83	198.0		7.68
123.5		5.06	148.5		5.97	173.5		6.85	198.5		7.69
124.0		5.07	149.0		5.99	174.0		6.87	199.0		7.71
124.5		5.09	149.5		6.01	174.5		6.88	199.5		7.73
125.0		5.11	150.0		6.02	175.0		6.90	200.0		7.74

Temperature, °F

53.6

				Temperature, °C											
				13.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.10		50.5		2.16		75.5		3.18	
1.0		0.02		26.0		1.12		51.0		2.18		76.0		3.20	
1.5		0.04		26.5		1.15		51.5		2.21		76.5		3.22	
2.0		0.07		27.0		1.17		52.0		2.23		77.0		3.24	
2.5		0.09		27.5		1.19		52.5		2.25		77.5		3.26	
3.0		0.11		28.0		1.21		53.0		2.27		78.0		3.28	
3.5		0.13		28.5		1.23		53.5		2.29		78.5		3.30	
4.0		0.16		29.0		1.25		54.0		2.31		79.0		3.32	
4.5		0.18		29.5		1.28		54.5		2.33		79.5		3.34	
5.0		0.20		30.0		1.30		55.0		2.35		80.0		3.36	
5.5		0.22		30.5		1.32		55.5		2.37		80.5		3.38	
6.0		0.25		31.0		1.34		56.0		2.39		81.0		3.40	
6.5		0.27		31.5		1.36		56.5		2.41		81.5		3.42	
7.0		0.29		32.0		1.38		57.0		2.43		82.0		3.44	
7.5		0.31		32.5		1.40		57.5		2.45		82.5		3.46	
8.0		0.34		33.0		1.43		58.0		2.47		83.0		3.48	
8.5		0.36		33.5		1.45		58.5		2.49		83.5		3.50	
9.0		0.38		34.0		1.47		59.0		2.52		84.0		3.52	
9.5		0.40		34.5		1.49		59.5		2.54		84.5		3.54	
10.0		0.42		35.0		1.51		60.0		2.56		85.0		3.56	
10.5		0.45		35.5		1.53		60.5		2.58		85.5		3.58	
11.0		0.47		36.0		1.55		61.0		2.60		86.0		3.60	
11.5		0.49		36.5		1.57		61.5		2.62		86.5		3.62	
12.0		0.51		37.0		1.60		62.0		2.64		87.0		3.64	
12.5		0.53		37.5		1.62		62.5		2.66		87.5		3.66	
13.0		0.56		38.0		1.64		63.0		2.68		88.0		3.68	
13.5		0.58		38.5		1.66		63.5		2.70		88.5		3.70	
14.0		0.60		39.0		1.68		64.0		2.72		89.0		3.72	
14.5		0.62		39.5		1.70		64.5		2.74		89.5		3.74	
15.0		0.64		40.0		1.72		65.0		2.76		90.0		3.76	
15.5		0.67		40.5		1.74		65.5		2.78		90.5		3.78	
16.0		0.69		41.0		1.77		66.0		2.80		91.0		3.80	
16.5		0.71		41.5		1.79		66.5		2.82		91.5		3.82	
17.0		0.73		42.0		1.81		67.0		2.84		92.0		3.84	
17.5		0.75		42.5		1.83		67.5		2.86		92.5		3.86	
18.0		0.78		43.0		1.85		68.0		2.88		93.0		3.88	
18.5		0.80		43.5		1.87		68.5		2.90		93.5		3.90	
19.0		0.82		44.0		1.89		69.0		2.92		94.0		3.91	
19.5		0.84		44.5		1.91		69.5		2.94		94.5		3.93	
20.0		0.86		45.0		1.93		70.0		2.96		95.0		3.95	
20.5		0.89		45.5		1.95		70.5		2.98		95.5		3.97	
21.0		0.91		46.0		1.98		71.0		3.00		96.0		3.99	
21.5		0.93		46.5		2.00		71.5		3.02		96.5		4.01	
22.0		0.95		47.0		2.02		72.0		3.04		97.0		4.03	
22.5		0.97		47.5		2.04		72.5		3.06		97.5		4.05	
23.0		0.99		48.0		2.06		73.0		3.08		98.0		4.07	
23.5		1.02		48.5		2.08		73.5		3.10		98.5		4.09	
24.0		1.04		49.0		2.10		74.0		3.12		99.0		4.11	
24.5		1.06		49.5		2.12		74.5		3.14		99.5		4.13	
25.0		1.08		50.0		2.14		75.0		3.16		100.0		4.15	

Temperature, °F

55.4

				Temperature, °C		13.0		
atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.17	125.5		5.11	150.5		6.02
101.0		4.19	126.0		5.13	151.0		6.04
101.5		4.21	126.5		5.15	151.5		6.05
102.0		4.22	127.0		5.17	152.0		6.07
102.5		4.24	127.5		5.18	152.5		6.09
103.0		4.26	128.0		5.20	153.0		6.11
103.5		4.28	128.5		5.22	153.5		6.13
104.0		4.30	129.0		5.24	154.0		6.14
104.5		4.32	129.5		5.26	154.5		6.16
105.0		4.34	130.0		5.28	155.0		6.18
105.5		4.36	130.5		5.30	155.5		6.20
106.0		4.38	131.0		5.31	156.0		6.21
106.5		4.40	131.5		5.33	156.5		6.23
107.0		4.42	132.0		5.35	157.0		6.25
107.5		4.43	132.5		5.37	157.5		6.27
108.0		4.45	133.0		5.39	158.0		6.28
108.5		4.47	133.5		5.41	158.5		6.30
109.0		4.49	134.0		5.42	159.0		6.32
109.5		4.51	134.5		5.44	159.5		6.34
110.0		4.53	135.0		5.46	160.0		6.35
110.5		4.55	135.5		5.48	160.5		6.37
111.0		4.57	136.0		5.50	161.0		6.39
111.5		4.59	136.5		5.51	161.5		6.41
112.0		4.61	137.0		5.53	162.0		6.42
112.5		4.62	137.5		5.55	162.5		6.44
113.0		4.64	138.0		5.57	163.0		6.46
113.5		4.66	138.5		5.59	163.5		6.48
114.0		4.68	139.0		5.61	164.0		6.49
114.5		4.70	139.5		5.62	164.5		6.51
115.0		4.72	140.0		5.64	165.0		6.53
115.5		4.74	140.5		5.66	165.5		6.55
116.0		4.76	141.0		5.68	166.0		6.56
116.5		4.78	141.5		5.70	166.5		6.58
117.0		4.79	142.0		5.71	167.0		6.60
117.5		4.81	142.5		5.73	167.5		6.62
118.0		4.83	143.0		5.75	168.0		6.63
118.5		4.85	143.5		5.77	168.5		6.65
119.0		4.87	144.0		5.79	169.0		6.67
119.5		4.89	144.5		5.80	169.5		6.69
120.0		4.91	145.0		5.82	170.0		6.70
120.5		4.92	145.5		5.84	170.5		6.72
121.0		4.94	146.0		5.86	171.0		6.74
121.5		4.96	146.5		5.88	171.5		6.75
122.0		4.98	147.0		5.89	172.0		6.77
122.5		5.00	147.5		5.91	172.5		6.79
123.0		5.02	148.0		5.93	173.0		6.81
123.5		5.04	148.5		5.95	173.5		6.82
124.0		5.06	149.0		5.97	174.0		6.84
124.5		5.07	149.5		5.98	174.5		6.86
125.0		5.09	150.0		6.00	175.0		6.87
175.5		6.89	176.0		6.91	176.5		6.93
177.0		6.94	177.5		6.96	178.0		6.98
178.5		6.99	179.0		7.01	179.5		7.03
180.0		7.04	180.5		7.06	181.0		7.08
181.5		7.10	182.0		7.11	182.5		7.13
183.0		7.15	183.5		7.16	184.0		7.18
184.5		7.20	185.0		7.21	185.5		7.23
186.0		7.25	186.5		7.26	187.0		7.28
187.5		7.30	188.0		7.32	188.5		7.33
189.0		7.35	189.5		7.37	190.0		7.38
190.5		7.40	191.0		7.42	191.5		7.43
192.0		7.45	192.5		7.47	193.0		7.48
193.5		7.50	194.0		7.52	194.5		7.53
195.0		7.55	195.5		7.57	196.0		7.58
196.5		7.60	197.0		7.61	197.5		7.63
198.0		7.65	198.5		7.66	199.0		7.68
199.5		7.70	200.0		7.71			

Temperature, °F

55.4

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.10	50.5	2.16	75.5	3.17
1.0	0.02	26.0	1.12	51.0	2.18	76.0	3.19
1.5	0.04	26.5	1.14	51.5	2.20	76.5	3.21
2.0	0.07	27.0	1.16	52.0	2.22	77.0	3.23
2.5	0.09	27.5	1.18	52.5	2.24	77.5	3.25
3.0	0.11	28.0	1.21	53.0	2.26	78.0	3.27
3.5	0.13	28.5	1.23	53.5	2.28	78.5	3.29
4.0	0.16	29.0	1.25	54.0	2.30	79.0	3.31
4.5	0.18	29.5	1.27	54.5	2.32	79.5	3.33
5.0	0.20	30.0	1.29	55.0	2.34	80.0	3.35
5.5	0.22	30.5	1.31	55.5	2.36	80.5	3.37
6.0	0.25	31.0	1.33	56.0	2.38	81.0	3.39
6.5	0.27	31.5	1.36	56.5	2.40	81.5	3.41
7.0	0.29	32.0	1.38	57.0	2.42	82.0	3.43
7.5	0.31	32.5	1.40	57.5	2.44	82.5	3.45
8.0	0.33	33.0	1.42	58.0	2.47	83.0	3.47
8.5	0.36	33.5	1.44	58.5	2.49	83.5	3.49
9.0	0.38	34.0	1.46	59.0	2.51	84.0	3.51
9.5	0.40	34.5	1.48	59.5	2.53	84.5	3.53
10.0	0.42	35.0	1.51	60.0	2.55	85.0	3.55
10.5	0.44	35.5	1.53	60.5	2.57	85.5	3.57
11.0	0.47	36.0	1.55	61.0	2.59	86.0	3.59
11.5	0.49	36.5	1.57	61.5	2.61	86.5	3.61
12.0	0.51	37.0	1.59	62.0	2.63	87.0	3.63
12.5	0.53	37.5	1.61	62.5	2.65	87.5	3.65
13.0	0.55	38.0	1.63	63.0	2.67	88.0	3.67
13.5	0.58	38.5	1.65	63.5	2.69	88.5	3.69
14.0	0.60	39.0	1.67	64.0	2.71	89.0	3.71
14.5	0.62	39.5	1.70	64.5	2.73	89.5	3.73
15.0	0.64	40.0	1.72	65.0	2.75	90.0	3.74
15.5	0.66	40.5	1.74	65.5	2.77	90.5	3.76
16.0	0.69	41.0	1.76	66.0	2.79	91.0	3.78
16.5	0.71	41.5	1.78	66.5	2.81	91.5	3.80
17.0	0.73	42.0	1.80	67.0	2.83	92.0	3.82
17.5	0.75	42.5	1.82	67.5	2.85	92.5	3.84
18.0	0.77	43.0	1.84	68.0	2.87	93.0	3.86
18.5	0.80	43.5	1.86	68.5	2.89	93.5	3.88
19.0	0.82	44.0	1.88	69.0	2.91	94.0	3.90
19.5	0.84	44.5	1.91	69.5	2.93	94.5	3.92
20.0	0.86	45.0	1.93	70.0	2.95	95.0	3.94
20.5	0.88	45.5	1.95	70.5	2.97	95.5	3.96
21.0	0.90	46.0	1.97	71.0	2.99	96.0	3.98
21.5	0.93	46.5	1.99	71.5	3.01	96.5	4.00
22.0	0.95	47.0	2.01	72.0	3.03	97.0	4.02
22.5	0.97	47.5	2.03	72.5	3.05	97.5	4.04
23.0	0.99	48.0	2.05	73.0	3.07	98.0	4.05
23.5	1.01	48.5	2.07	73.5	3.09	98.5	4.07
24.0	1.03	49.0	2.09	74.0	3.11	99.0	4.09
24.5	1.06	49.5	2.11	74.5	3.13	99.5	4.11
25.0	1.08	50.0	2.13	75.0	3.15	100.0	4.13

				Temperature, °C		14.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
100.5	4.15	125.5	5.09	150.5	6.00	175.5	6.87
101.0	4.17	126.0	5.11	151.0	6.01	176.0	6.88
101.5	4.19	126.5	5.13	151.5	6.03	176.5	6.90
102.0	4.21	127.0	5.15	152.0	6.05	177.0	6.92
102.5	4.23	127.5	5.17	152.5	6.07	177.5	6.93
103.0	4.25	128.0	5.18	153.0	6.09	178.0	6.95
103.5	4.27	128.5	5.20	153.5	6.10	178.5	6.97
104.0	4.29	129.0	5.22	154.0	6.12	179.0	6.99
104.5	4.30	129.5	5.24	154.5	6.14	179.5	7.00
105.0	4.32	130.0	5.26	155.0	6.16	180.0	7.02
105.5	4.34	130.5	5.28	155.5	6.17	180.5	7.04
106.0	4.36	131.0	5.29	156.0	6.19	181.0	7.05
106.5	4.38	131.5	5.31	156.5	6.21	181.5	7.07
107.0	4.40	132.0	5.33	157.0	6.23	182.0	7.09
107.5	4.42	132.5	5.35	157.5	6.24	182.5	7.10
108.0	4.44	133.0	5.37	158.0	6.26	183.0	7.12
108.5	4.46	133.5	5.39	158.5	6.28	183.5	7.14
109.0	4.48	134.0	5.40	159.0	6.30	184.0	7.15
109.5	4.49	134.5	5.42	159.5	6.31	184.5	7.17
110.0	4.51	135.0	5.44	160.0	6.33	185.0	7.19
110.5	4.53	135.5	5.46	160.5	6.35	185.5	7.20
111.0	4.55	136.0	5.48	161.0	6.37	186.0	7.22
111.5	4.57	136.5	5.49	161.5	6.38	186.5	7.24
112.0	4.59	137.0	5.51	162.0	6.40	187.0	7.25
112.5	4.61	137.5	5.53	162.5	6.42	187.5	7.27
113.0	4.63	138.0	5.55	163.0	6.44	188.0	7.29
113.5	4.64	138.5	5.57	163.5	6.45	188.5	7.31
114.0	4.66	139.0	5.58	164.0	6.47	189.0	7.32
114.5	4.68	139.5	5.60	164.5	6.49	189.5	7.34
115.0	4.70	140.0	5.62	165.0	6.51	190.0	7.36
115.5	4.72	140.5	5.64	165.5	6.52	190.5	7.37
116.0	4.74	141.0	5.66	166.0	6.54	191.0	7.39
116.5	4.76	141.5	5.68	166.5	6.56	191.5	7.41
117.0	4.78	142.0	5.69	167.0	6.57	192.0	7.42
117.5	4.79	142.5	5.71	167.5	6.59	192.5	7.44
118.0	4.81	143.0	5.73	168.0	6.61	193.0	7.45
118.5	4.83	143.5	5.75	168.5	6.63	193.5	7.47
119.0	4.85	144.0	5.76	169.0	6.64	194.0	7.49
119.5	4.87	144.5	5.78	169.5	6.66	194.5	7.50
120.0	4.89	145.0	5.80	170.0	6.68	195.0	7.52
120.5	4.91	145.5	5.82	170.5	6.70	195.5	7.54
121.0	4.93	146.0	5.84	171.0	6.71	196.0	7.55
121.5	4.94	146.5	5.85	171.5	6.73	196.5	7.57
122.0	4.96	147.0	5.87	172.0	6.75	197.0	7.59
122.5	4.98	147.5	5.89	172.5	6.76	197.5	7.60
123.0	5.00	148.0	5.91	173.0	6.78	198.0	7.62
123.5	5.02	148.5	5.93	173.5	6.80	198.5	7.64
124.0	5.04	149.0	5.94	174.0	6.82	199.0	7.65
124.5	5.06	149.5	5.96	174.5	6.83	199.5	7.67
125.0	5.07	150.0	5.98	175.0	6.85	200.0	7.69

				Temperature, °C											
				15.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.09		50.5		2.15		75.5		3.16	
1.0		0.02		26.0		1.12		51.0		2.17		76.0		3.18	
1.5		0.04		26.5		1.14		51.5		2.19		76.5		3.20	
2.0		0.07		27.0		1.16		52.0		2.21		77.0		3.22	
2.5		0.09		27.5		1.18		52.5		2.23		77.5		3.24	
3.0		0.11		28.0		1.20		53.0		2.25		78.0		3.26	
3.5		0.13		28.5		1.22		53.5		2.27		78.5		3.28	
4.0		0.16		29.0		1.24		54.0		2.29		79.0		3.30	
4.5		0.18		29.5		1.27		54.5		2.31		79.5		3.32	
5.0		0.20		30.0		1.29		55.0		2.33		80.0		3.34	
5.5		0.22		30.5		1.31		55.5		2.35		80.5		3.36	
6.0		0.24		31.0		1.33		56.0		2.37		81.0		3.38	
6.5		0.27		31.5		1.35		56.5		2.39		81.5		3.40	
7.0		0.29		32.0		1.37		57.0		2.41		82.0		3.42	
7.5		0.31		32.5		1.39		57.5		2.44		82.5		3.44	
8.0		0.33		33.0		1.41		58.0		2.46		83.0		3.46	
8.5		0.35		33.5		1.44		58.5		2.48		83.5		3.48	
9.0		0.38		34.0		1.46		59.0		2.50		84.0		3.50	
9.5		0.40		34.5		1.48		59.5		2.52		84.5		3.52	
10.0		0.42		35.0		1.50		60.0		2.54		85.0		3.54	
10.5		0.44		35.5		1.52		60.5		2.56		85.5		3.56	
11.0		0.46		36.0		1.54		61.0		2.58		86.0		3.57	
11.5		0.49		36.5		1.56		61.5		2.60		86.5		3.59	
12.0		0.51		37.0		1.58		62.0		2.62		87.0		3.61	
12.5		0.53		37.5		1.61		62.5		2.64		87.5		3.63	
13.0		0.55		38.0		1.63		63.0		2.66		88.0		3.65	
13.5		0.57		38.5		1.65		63.5		2.68		88.5		3.67	
14.0		0.60		39.0		1.67		64.0		2.70		89.0		3.69	
14.5		0.62		39.5		1.69		64.5		2.72		89.5		3.71	
15.0		0.64		40.0		1.71		65.0		2.74		90.0		3.73	
15.5		0.66		40.5		1.73		65.5		2.76		90.5		3.75	
16.0		0.68		41.0		1.75		66.0		2.78		91.0		3.77	
16.5		0.71		41.5		1.77		66.5		2.80		91.5		3.79	
17.0		0.73		42.0		1.79		67.0		2.82		92.0		3.81	
17.5		0.75		42.5		1.82		67.5		2.84		92.5		3.83	
18.0		0.77		43.0		1.84		68.0		2.86		93.0		3.85	
18.5		0.79		43.5		1.86		68.5		2.88		93.5		3.87	
19.0		0.81		44.0		1.88		69.0		2.90		94.0		3.89	
19.5		0.84		44.5		1.90		69.5		2.92		94.5		3.91	
20.0		0.86		45.0		1.92		70.0		2.94		95.0		3.92	
20.5		0.88		45.5		1.94		70.5		2.96		95.5		3.94	
21.0		0.90		46.0		1.96		71.0		2.98		96.0		3.96	
21.5		0.92		46.5		1.98		71.5		3.00		96.5		3.98	
22.0		0.94		47.0		2.00		72.0		3.02		97.0		4.00	
22.5		0.97		47.5		2.02		72.5		3.04		97.5		4.02	
23.0		0.99		48.0		2.04		73.0		3.06		98.0		4.04	
23.5		1.01		48.5		2.06		73.5		3.08		98.5		4.06	
24.0		1.03		49.0		2.09		74.0		3.10		99.0		4.08	
24.5		1.05		49.5		2.11		74.5		3.12		99.5		4.10	
25.0		1.07		50.0		2.13		75.0		3.14		100.0		4.12	

Temperature, °F

59.0

				Temperature, °C											
				15.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.14		125.5		5.07		150.5		5.97		175.5		6.84	
101.0		4.15		126.0		5.09		151.0		5.99		176.0		6.86	
101.5		4.17		126.5		5.11		151.5		6.01		176.5		6.88	
102.0		4.19		127.0		5.13		152.0		6.03		177.0		6.89	
102.5		4.21		127.5		5.15		152.5		6.05		177.5		6.91	
103.0		4.23		128.0		5.16		153.0		6.06		178.0		6.93	
103.5		4.25		128.5		5.18		153.5		6.08		178.5		6.94	
104.0		4.27		129.0		5.20		154.0		6.10		179.0		6.96	
104.5		4.29		129.5		5.22		154.5		6.12		179.5		6.98	
105.0		4.31		130.0		5.24		155.0		6.13		180.0		6.99	
105.5		4.33		130.5		5.26		155.5		6.15		180.5		7.01	
106.0		4.35		131.0		5.27		156.0		6.17		181.0		7.03	
106.5		4.36		131.5		5.29		156.5		6.19		181.5		7.04	
107.0		4.38		132.0		5.31		157.0		6.20		182.0		7.06	
107.5		4.40		132.5		5.33		157.5		6.22		182.5		7.08	
108.0		4.42		133.0		5.35		158.0		6.24		183.0		7.09	
108.5		4.44		133.5		5.37		158.5		6.26		183.5		7.11	
109.0		4.46		134.0		5.38		159.0		6.27		184.0		7.13	
109.5		4.48		134.5		5.40		159.5		6.29		184.5		7.14	
110.0		4.50		135.0		5.42		160.0		6.31		185.0		7.16	
110.5		4.52		135.5		5.44		160.5		6.33		185.5		7.18	
111.0		4.53		136.0		5.46		161.0		6.34		186.0		7.20	
111.5		4.55		136.5		5.47		161.5		6.36		186.5		7.21	
112.0		4.57		137.0		5.49		162.0		6.38		187.0		7.23	
112.5		4.59		137.5		5.51		162.5		6.39		187.5		7.25	
113.0		4.61		138.0		5.53		163.0		6.41		188.0		7.26	
113.5		4.63		138.5		5.55		163.5		6.43		188.5		7.28	
114.0		4.65		139.0		5.56		164.0		6.45		189.0		7.30	
114.5		4.67		139.5		5.58		164.5		6.46		189.5		7.31	
115.0		4.68		140.0		5.60		165.0		6.48		190.0		7.33	
115.5		4.70		140.5		5.62		165.5		6.50		190.5		7.35	
116.0		4.72		141.0		5.64		166.0		6.52		191.0		7.36	
116.5		4.74		141.5		5.65		166.5		6.53		191.5		7.38	
117.0		4.76		142.0		5.67		167.0		6.55		192.0		7.39	
117.5		4.78		142.5		5.69		167.5		6.57		192.5		7.41	
118.0		4.80		143.0		5.71		168.0		6.58		193.0		7.43	
118.5		4.81		143.5		5.73		168.5		6.60		193.5		7.44	
119.0		4.83		144.0		5.74		169.0		6.62		194.0		7.46	
119.5		4.85		144.5		5.76		169.5		6.64		194.5		7.48	
120.0		4.87		145.0		5.78		170.0		6.65		195.0		7.49	
120.5		4.89		145.5		5.80		170.5		6.67		195.5		7.51	
121.0		4.91		146.0		5.81		171.0		6.69		196.0		7.53	
121.5		4.93		146.5		5.83		171.5		6.70		196.5		7.54	
122.0		4.94		147.0		5.85		172.0		6.72		197.0		7.56	
122.5		4.96		147.5		5.87		172.5		6.74		197.5		7.58	
123.0		4.98		148.0		5.89		173.0		6.76		198.0		7.59	
123.5		5.00		148.5		5.90		173.5		6.77		198.5		7.61	
124.0		5.02		149.0		5.92		174.0		6.79		199.0		7.63	
124.5		5.04		149.5		5.94		174.5		6.81		199.5		7.64	
125.0		5.05		150.0		5.96		175.0		6.82		200.0		7.66	

Temperature, °F

59.0

				Temperature, °C			
atū - kg		atū - kg		atū - kg		atū - kg	
0.5	0.00	25.5	1.09	50.5	2.14	75.5	3.15
1.0	0.02	26.0	1.11	51.0	2.16	76.0	3.17
1.5	0.04	26.5	1.13	51.5	2.18	76.5	3.19
2.0	0.07	27.0	1.15	52.0	2.20	77.0	3.21
2.5	0.09	27.5	1.18	52.5	2.22	77.5	3.23
3.0	0.11	28.0	1.20	53.0	2.24	78.0	3.25
3.5	0.13	28.5	1.22	53.5	2.26	78.5	3.27
4.0	0.16	29.0	1.24	54.0	2.28	79.0	3.29
4.5	0.18	29.5	1.26	54.5	2.30	79.5	3.31
5.0	0.20	30.0	1.28	55.0	2.32	80.0	3.33
5.5	0.22	30.5	1.30	55.5	2.34	80.5	3.35
6.0	0.24	31.0	1.32	56.0	2.37	81.0	3.37
6.5	0.27	31.5	1.35	56.5	2.39	81.5	3.39
7.0	0.29	32.0	1.37	57.0	2.41	82.0	3.41
7.5	0.31	32.5	1.39	57.5	2.43	82.5	3.42
8.0	0.33	33.0	1.41	58.0	2.45	83.0	3.44
8.5	0.35	33.5	1.43	58.5	2.47	83.5	3.46
9.0	0.38	34.0	1.45	59.0	2.49	84.0	3.48
9.5	0.40	34.5	1.47	59.5	2.51	84.5	3.50
10.0	0.42	35.0	1.49	60.0	2.53	85.0	3.52
10.5	0.44	35.5	1.51	60.5	2.55	85.5	3.54
11.0	0.46	36.0	1.54	61.0	2.57	86.0	3.56
11.5	0.48	36.5	1.56	61.5	2.59	86.5	3.58
12.0	0.51	37.0	1.58	62.0	2.61	87.0	3.60
12.5	0.53	37.5	1.60	62.5	2.63	87.5	3.62
13.0	0.55	38.0	1.62	63.0	2.65	88.0	3.64
13.5	0.57	38.5	1.64	63.5	2.67	88.5	3.66
14.0	0.59	39.0	1.66	64.0	2.69	89.0	3.68
14.5	0.62	39.5	1.68	64.5	2.71	89.5	3.70
15.0	0.64	40.0	1.70	65.0	2.73	90.0	3.72
15.5	0.66	40.5	1.72	65.5	2.75	90.5	3.74
16.0	0.68	41.0	1.75	66.0	2.77	91.0	3.76
16.5	0.70	41.5	1.77	66.5	2.79	91.5	3.78
17.0	0.72	42.0	1.79	67.0	2.81	92.0	3.79
17.5	0.75	42.5	1.81	67.5	2.83	92.5	3.81
18.0	0.77	43.0	1.83	68.0	2.85	93.0	3.83
18.5	0.79	43.5	1.85	68.5	2.87	93.5	3.85
19.0	0.81	44.0	1.87	69.0	2.89	94.0	3.87
19.5	0.83	44.5	1.89	69.5	2.91	94.5	3.89
20.0	0.85	45.0	1.91	70.0	2.93	95.0	3.91
20.5	0.88	45.5	1.93	70.5	2.95	95.5	3.93
21.0	0.90	46.0	1.95	71.0	2.97	96.0	3.95
21.5	0.92	46.5	1.97	71.5	2.99	96.5	3.97
22.0	0.94	47.0	2.00	72.0	3.01	97.0	3.99
22.5	0.96	47.5	2.02	72.5	3.03	97.5	4.01
23.0	0.98	48.0	2.04	73.0	3.05	98.0	4.02
23.5	1.00	48.5	2.06	73.5	3.07	98.5	4.04
24.0	1.03	49.0	2.08	74.0	3.09	99.0	4.06
24.5	1.05	49.5	2.10	74.5	3.11	99.5	4.08
25.0	1.07	50.0	2.12	75.0	3.13	100.0	4.10

Temperature, °F

60.8

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
100.5	4.12	125.5	5.05	150.5	5.95	175.5	6.82
101.0	4.14	126.0	5.07	151.0	5.97	176.0	6.83
101.5	4.16	126.5	5.09	151.5	5.99	176.5	6.85
102.0	4.18	127.0	5.11	152.0	6.01	177.0	6.87
102.5	4.20	127.5	5.13	152.5	6.02	177.5	6.88
103.0	4.22	128.0	5.15	153.0	6.04	178.0	6.90
103.5	4.23	128.5	5.16	153.5	6.06	178.5	6.92
104.0	4.25	129.0	5.18	154.0	6.08	179.0	6.93
104.5	4.27	129.5	5.20	154.5	6.09	179.5	6.95
105.0	4.29	130.0	5.22	155.0	6.11	180.0	6.97
105.5	4.31	130.5	5.24	155.5	6.13	180.5	6.98
106.0	4.33	131.0	5.25	156.0	6.15	181.0	7.00
106.5	4.35	131.5	5.27	156.5	6.16	181.5	7.02
107.0	4.37	132.0	5.29	157.0	6.18	182.0	7.04
107.5	4.39	132.5	5.31	157.5	6.20	182.5	7.05
108.0	4.40	133.0	5.33	158.0	6.22	183.0	7.07
108.5	4.42	133.5	5.35	158.5	6.23	183.5	7.09
109.0	4.44	134.0	5.36	159.0	6.25	184.0	7.10
109.5	4.46	134.5	5.38	159.5	6.27	184.5	7.12
110.0	4.48	135.0	5.40	160.0	6.28	185.0	7.14
110.5	4.50	135.5	5.42	160.5	6.30	185.5	7.15
111.0	4.52	136.0	5.44	161.0	6.32	186.0	7.17
111.5	4.54	136.5	5.45	161.5	6.34	186.5	7.19
112.0	4.55	137.0	5.47	162.0	6.35	187.0	7.20
112.5	4.57	137.5	5.49	162.5	6.37	187.5	7.22
113.0	4.59	138.0	5.51	163.0	6.39	188.0	7.24
113.5	4.61	138.5	5.53	163.5	6.41	188.5	7.25
114.0	4.63	139.0	5.54	164.0	6.42	189.0	7.27
114.5	4.65	139.5	5.56	164.5	6.44	189.5	7.29
115.0	4.67	140.0	5.58	165.0	6.46	190.0	7.30
115.5	4.69	140.5	5.60	165.5	6.47	190.5	7.32
116.0	4.70	141.0	5.62	166.0	6.49	191.0	7.33
116.5	4.72	141.5	5.63	166.5	6.51	191.5	7.35
117.0	4.74	142.0	5.65	167.0	6.53	192.0	7.37
117.5	4.76	142.5	5.67	167.5	6.54	192.5	7.38
118.0	4.78	143.0	5.69	168.0	6.56	193.0	7.40
118.5	4.80	143.5	5.70	168.5	6.58	193.5	7.42
119.0	4.81	144.0	5.72	169.0	6.59	194.0	7.43
119.5	4.83	144.5	5.74	169.5	6.61	194.5	7.45
120.0	4.85	145.0	5.76	170.0	6.63	195.0	7.47
120.5	4.87	145.5	5.78	170.5	6.65	195.5	7.48
121.0	4.89	146.0	5.79	171.0	6.66	196.0	7.50
121.5	4.91	146.5	5.81	171.5	6.68	196.5	7.52
122.0	4.93	147.0	5.83	172.0	6.70	197.0	7.53
122.5	4.94	147.5	5.85	172.5	6.71	197.5	7.55
123.0	4.96	148.0	5.86	173.0	6.73	198.0	7.56
123.5	4.98	148.5	5.88	173.5	6.75	198.5	7.58
124.0	5.00	149.0	5.90	174.0	6.77	199.0	7.60
124.5	5.02	149.5	5.92	174.5	6.78	199.5	7.61
125.0	5.04	150.0	5.93	175.0	6.80	200.0	7.63

Temperature, °F

60.8

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.09	50.5	2.13	75.5	3.14
1.0	0.02	26.0	1.11	51.0	2.15	76.0	3.16
1.5	0.04	26.5	1.13	51.5	2.17	76.5	3.18
2.0	0.07	27.0	1.15	52.0	2.19	77.0	3.20
2.5	0.09	27.5	1.17	52.5	2.21	77.5	3.22
3.0	0.11	28.0	1.19	53.0	2.23	78.0	3.24
3.5	0.13	28.5	1.21	53.5	2.25	78.5	3.26
4.0	0.15	29.0	1.24	54.0	2.27	79.0	3.28
4.5	0.18	29.5	1.26	54.5	2.30	79.5	3.29
5.0	0.20	30.0	1.28	55.0	2.32	80.0	3.31
5.5	0.22	30.5	1.30	55.5	2.34	80.5	3.33
6.0	0.24	31.0	1.32	56.0	2.36	81.0	3.35
6.5	0.26	31.5	1.34	56.5	2.38	81.5	3.37
7.0	0.29	32.0	1.36	57.0	2.40	82.0	3.39
7.5	0.31	32.5	1.38	57.5	2.42	82.5	3.41
8.0	0.33	33.0	1.40	58.0	2.44	83.0	3.43
8.5	0.35	33.5	1.43	58.5	2.46	83.5	3.45
9.0	0.37	34.0	1.45	59.0	2.48	84.0	3.47
9.5	0.40	34.5	1.47	59.5	2.50	84.5	3.49
10.0	0.42	35.0	1.49	60.0	2.52	85.0	3.51
10.5	0.44	35.5	1.51	60.5	2.54	85.5	3.53
11.0	0.46	36.0	1.53	61.0	2.56	86.0	3.55
11.5	0.48	36.5	1.55	61.5	2.58	86.5	3.57
12.0	0.50	37.0	1.57	62.0	2.60	87.0	3.59
12.5	0.53	37.5	1.59	62.5	2.62	87.5	3.61
13.0	0.55	38.0	1.61	63.0	2.64	88.0	3.63
13.5	0.57	38.5	1.63	63.5	2.66	88.5	3.65
14.0	0.59	39.0	1.66	64.0	2.68	89.0	3.66
14.5	0.61	39.5	1.68	64.5	2.70	89.5	3.68
15.0	0.64	40.0	1.70	65.0	2.72	90.0	3.70
15.5	0.66	40.5	1.72	65.5	2.74	90.5	3.72
16.0	0.68	41.0	1.74	66.0	2.76	91.0	3.74
16.5	0.70	41.5	1.76	66.5	2.78	91.5	3.76
17.0	0.72	42.0	1.78	67.0	2.80	92.0	3.78
17.5	0.74	42.5	1.80	67.5	2.82	92.5	3.80
18.0	0.76	43.0	1.82	68.0	2.84	93.0	3.82
18.5	0.79	43.5	1.84	68.5	2.86	93.5	3.84
19.0	0.81	44.0	1.86	69.0	2.88	94.0	3.86
19.5	0.83	44.5	1.88	69.5	2.90	94.5	3.88
20.0	0.85	45.0	1.91	70.0	2.92	95.0	3.90
20.5	0.87	45.5	1.93	70.5	2.94	95.5	3.91
21.0	0.89	46.0	1.95	71.0	2.96	96.0	3.93
21.5	0.92	46.5	1.97	71.5	2.98	96.5	3.95
22.0	0.94	47.0	1.99	72.0	3.00	97.0	3.97
22.5	0.96	47.5	2.01	72.5	3.02	97.5	3.99
23.0	0.98	48.0	2.03	73.0	3.04	98.0	4.01
23.5	1.00	48.5	2.05	73.5	3.06	98.5	4.03
24.0	1.02	49.0	2.07	74.0	3.08	99.0	4.05
24.5	1.04	49.5	2.09	74.5	3.10	99.5	4.07
25.0	1.06	50.0	2.11	75.0	3.12	100.0	4.09

Temperature, °F

62.6

				Temperature, °C				17.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.10		125.5		5.04		150.5		5.93		175.5		6.79	
101.0		4.12		126.0		5.05		151.0		5.95		176.0		6.81	
101.5		4.14		126.5		5.07		151.5		5.97		176.5		6.82	
102.0		4.16		127.0		5.09		152.0		5.98		177.0		6.84	
102.5		4.18		127.5		5.11		152.5		6.00		177.5		6.86	
103.0		4.20		128.0		5.13		153.0		6.02		178.0		6.88	
103.5		4.22		128.5		5.14		153.5		6.04		178.5		6.89	
104.0		4.24		129.0		5.16		154.0		6.05		179.0		6.91	
104.5		4.26		129.5		5.18		154.5		6.07		179.5		6.93	
105.0		4.28		130.0		5.20		155.0		6.09		180.0		6.94	
105.5		4.29		130.5		5.22		155.5		6.11		180.5		6.96	
106.0		4.31		131.0		5.24		156.0		6.12		181.0		6.98	
106.5		4.33		131.5		5.25		156.5		6.14		181.5		6.99	
107.0		4.35		132.0		5.27		157.0		6.16		182.0		7.01	
107.5		4.37		132.5		5.29		157.5		6.17		182.5		7.03	
108.0		4.39		133.0		5.31		158.0		6.19		183.0		7.04	
108.5		4.41		133.5		5.33		158.5		6.21		183.5		7.06	
109.0		4.43		134.0		5.34		159.0		6.23		184.0		7.08	
109.5		4.44		134.5		5.36		159.5		6.24		184.5		7.09	
110.0		4.46		135.0		5.38		160.0		6.26		185.0		7.11	
110.5		4.48		135.5		5.40		160.5		6.28		185.5		7.13	
111.0		4.50		136.0		5.42		161.0		6.30		186.0		7.14	
111.5		4.52		136.5		5.43		161.5		6.31		186.5		7.16	
112.0		4.54		137.0		5.45		162.0		6.33		187.0		7.18	
112.5		4.56		137.5		5.47		162.5		6.35		187.5		7.19	
113.0		4.57		138.0		5.49		163.0		6.37		188.0		7.21	
113.5		4.59		138.5		5.51		163.5		6.38		188.5		7.23	
114.0		4.61		139.0		5.52		164.0		6.40		189.0		7.24	
114.5		4.63		139.5		5.54		164.5		6.42		189.5		7.26	
115.0		4.65		140.0		5.56		165.0		6.43		190.0		7.27	
115.5		4.67		140.5		5.58		165.5		6.45		190.5		7.29	
116.0		4.69		141.0		5.59		166.0		6.47		191.0		7.31	
116.5		4.70		141.5		5.61		166.5		6.49		191.5		7.32	
117.0		4.72		142.0		5.63		167.0		6.50		192.0		7.34	
117.5		4.74		142.5		5.65		167.5		6.52		192.5		7.36	
118.0		4.76		143.0		5.67		168.0		6.54		193.0		7.37	
118.5		4.78		143.5		5.68		168.5		6.55		193.5		7.39	
119.0		4.80		144.0		5.70		169.0		6.57		194.0		7.41	
119.5		4.82		144.5		5.72		169.5		6.59		194.5		7.42	
120.0		4.83		145.0		5.74		170.0		6.60		195.0		7.44	
120.5		4.85		145.5		5.75		170.5		6.62		195.5		7.46	
121.0		4.87		146.0		5.77		171.0		6.64		196.0		7.47	
121.5		4.89		146.5		5.79		171.5		6.66		196.5		7.49	
122.0		4.91		147.0		5.81		172.0		6.67		197.0		7.50	
122.5		4.93		147.5		5.82		172.5		6.69		197.5		7.52	
123.0		4.94		148.0		5.84		173.0		6.71		198.0		7.54	
123.5		4.96		148.5		5.86		173.5		6.72		198.5		7.55	
124.0		4.98		149.0		5.88		174.0		6.74		199.0		7.57	
124.5		5.00		149.5		5.90		174.5		6.76		199.5		7.59	
125.0		5.02		150.0		5.91		175.0		6.77		200.0		7.60	

Temperature, °F

62.6

				Temperature, °C		18.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.08	50.5	2.12	75.5	3.13
1.0	0.02	26.0	1.10	51.0	2.14	76.0	3.15
1.5	0.04	26.5	1.12	51.5	2.16	76.5	3.16
2.0	0.07	27.0	1.15	52.0	2.18	77.0	3.18
2.5	0.09	27.5	1.17	52.5	2.21	77.5	3.20
3.0	0.11	28.0	1.19	53.0	2.23	78.0	3.22
3.5	0.13	28.5	1.21	53.5	2.25	78.5	3.24
4.0	0.15	29.0	1.23	54.0	2.27	79.0	3.26
4.5	0.18	29.5	1.25	54.5	2.29	79.5	3.28
5.0	0.20	30.0	1.27	55.0	2.31	80.0	3.30
5.5	0.22	30.5	1.29	55.5	2.33	80.5	3.32
6.0	0.24	31.0	1.31	56.0	2.35	81.0	3.34
6.5	0.26	31.5	1.34	56.5	2.37	81.5	3.36
7.0	0.29	32.0	1.36	57.0	2.39	82.0	3.38
7.5	0.31	32.5	1.38	57.5	2.41	82.5	3.40
8.0	0.33	33.0	1.40	58.0	2.43	83.0	3.42
8.5	0.35	33.5	1.42	58.5	2.45	83.5	3.44
9.0	0.37	34.0	1.44	59.0	2.47	84.0	3.46
9.5	0.39	34.5	1.46	59.5	2.49	84.5	3.48
10.0	0.42	35.0	1.48	60.0	2.51	85.0	3.50
10.5	0.44	35.5	1.50	60.5	2.53	85.5	3.52
11.0	0.46	36.0	1.52	61.0	2.55	86.0	3.54
11.5	0.48	36.5	1.55	61.5	2.57	86.5	3.55
12.0	0.50	37.0	1.57	62.0	2.59	87.0	3.57
12.5	0.52	37.5	1.59	62.5	2.61	87.5	3.59
13.0	0.55	38.0	1.61	63.0	2.63	88.0	3.61
13.5	0.57	38.5	1.63	63.5	2.65	88.5	3.63
14.0	0.59	39.0	1.65	64.0	2.67	89.0	3.65
14.5	0.61	39.5	1.67	64.5	2.69	89.5	3.67
15.0	0.63	40.0	1.69	65.0	2.71	90.0	3.69
15.5	0.65	40.5	1.71	65.5	2.73	90.5	3.71
16.0	0.68	41.0	1.73	66.0	2.75	91.0	3.73
16.5	0.70	41.5	1.75	66.5	2.77	91.5	3.75
17.0	0.72	42.0	1.77	67.0	2.79	92.0	3.77
17.5	0.74	42.5	1.79	67.5	2.81	92.5	3.79
18.0	0.76	43.0	1.82	68.0	2.83	93.0	3.80
18.5	0.78	43.5	1.84	68.5	2.85	93.5	3.82
19.0	0.80	44.0	1.86	69.0	2.87	94.0	3.84
19.5	0.83	44.5	1.88	69.5	2.89	94.5	3.86
20.0	0.85	45.0	1.90	70.0	2.91	95.0	3.88
20.5	0.87	45.5	1.92	70.5	2.93	95.5	3.90
21.0	0.89	46.0	1.94	71.0	2.95	96.0	3.92
21.5	0.91	46.5	1.96	71.5	2.97	96.5	3.94
22.0	0.93	47.0	1.98	72.0	2.99	97.0	3.96
22.5	0.95	47.5	2.00	72.5	3.01	97.5	3.98
23.0	0.98	48.0	2.02	73.0	3.03	98.0	3.99
23.5	1.00	48.5	2.04	73.5	3.05	98.5	4.01
24.0	1.02	49.0	2.06	74.0	3.07	99.0	4.03
24.5	1.04	49.5	2.08	74.5	3.09	99.5	4.05
25.0	1.06	50.0	2.10	75.0	3.11	100.0	4.07

				Temperature, °C											
				18.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.09		125.5		5.02		150.5		5.91		175.5		6.77	
101.0		4.11		126.0		5.03		151.0		5.93		176.0		6.78	
101.5		4.13		126.5		5.05		151.5		5.94		176.5		6.80	
102.0		4.15		127.0		5.07		152.0		5.96		177.0		6.82	
102.5		4.17		127.5		5.09		152.5		5.98		177.5		6.83	
103.0		4.18		128.0		5.11		153.0		6.00		178.0		6.85	
103.5		4.20		128.5		5.13		153.5		6.01		178.5		6.87	
104.0		4.22		129.0		5.14		154.0		6.03		179.0		6.88	
104.5		4.24		129.5		5.16		154.5		6.05		179.5		6.90	
105.0		4.26		130.0		5.18		155.0		6.07		180.0		6.92	
105.5		4.28		130.5		5.20		155.5		6.08		180.5		6.93	
106.0		4.30		131.0		5.22		156.0		6.10		181.0		6.95	
106.5		4.32		131.5		5.23		156.5		6.12		181.5		6.97	
107.0		4.33		132.0		5.25		157.0		6.13		182.0		6.98	
107.5		4.35		132.5		5.27		157.5		6.15		182.5		7.00	
108.0		4.37		133.0		5.29		158.0		6.17		183.0		7.02	
108.5		4.39		133.5		5.31		158.5		6.19		183.5		7.03	
109.0		4.41		134.0		5.32		159.0		6.20		184.0		7.05	
109.5		4.43		134.5		5.34		159.5		6.22		184.5		7.07	
110.0		4.45		135.0		5.36		160.0		6.24		185.0		7.08	
110.5		4.46		135.5		5.38		160.5		6.26		185.5		7.10	
111.0		4.48		136.0		5.40		161.0		6.27		186.0		7.12	
111.5		4.50		136.5		5.41		161.5		6.29		186.5		7.13	
112.0		4.52		137.0		5.43		162.0		6.31		187.0		7.15	
112.5		4.54		137.5		5.45		162.5		6.32		187.5		7.17	
113.0		4.56		138.0		5.47		163.0		6.34		188.0		7.18	
113.5		4.58		138.5		5.48		163.5		6.36		188.5		7.20	
114.0		4.59		139.0		5.50		164.0		6.38		189.0		7.22	
114.5		4.61		139.5		5.52		164.5		6.39		189.5		7.23	
115.0		4.63		140.0		5.54		165.0		6.41		190.0		7.25	
115.5		4.65		140.5		5.56		165.5		6.43		190.5		7.26	
116.0		4.67		141.0		5.57		166.0		6.44		191.0		7.28	
116.5		4.69		141.5		5.59		166.5		6.46		191.5		7.30	
117.0		4.71		142.0		5.61		167.0		6.48		192.0		7.31	
117.5		4.72		142.5		5.63		167.5		6.50		192.5		7.33	
118.0		4.74		143.0		5.64		168.0		6.51		193.0		7.35	
118.5		4.76		143.5		5.66		168.5		6.53		193.5		7.36	
119.0		4.78		144.0		5.68		169.0		6.55		194.0		7.38	
119.5		4.80		144.5		5.70		169.5		6.56		194.5		7.40	
120.0		4.82		145.0		5.72		170.0		6.58		195.0		7.41	
120.5		4.83		145.5		5.73		170.5		6.60		195.5		7.43	
121.0		4.85		146.0		5.75		171.0		6.61		196.0		7.44	
121.5		4.87		146.5		5.77		171.5		6.63		196.5		7.46	
122.0		4.89		147.0		5.79		172.0		6.65		197.0		7.48	
122.5		4.91		147.5		5.80		172.5		6.67		197.5		7.49	
123.0		4.93		148.0		5.82		173.0		6.68		198.0		7.51	
123.5		4.94		148.5		5.84		173.5		6.70		198.5		7.53	
124.0		4.96		149.0		5.86		174.0		6.72		199.0		7.54	
124.5		4.98		149.5		5.87		174.5		6.73		199.5		7.56	
125.0		5.00		150.0		5.89		175.0		6.75		200.0		7.57	

Temperature, °F

64.4

				Temperature, °C											
				19.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.08		50.5		2.12		75.5		3.11	
1.0		0.02		26.0		1.10		51.0		2.14		76.0		3.13	
1.5		0.04		26.5		1.12		51.5		2.16		76.5		3.15	
2.0		0.07		27.0		1.14		52.0		2.18		77.0		3.17	
2.5		0.09		27.5		1.16		52.5		2.20		77.5		3.19	
3.0		0.11		28.0		1.18		53.0		2.22		78.0		3.21	
3.5		0.13		28.5		1.20		53.5		2.24		78.5		3.23	
4.0		0.15		29.0		1.23		54.0		2.26		79.0		3.25	
4.5		0.18		29.5		1.25		54.5		2.28		79.5		3.27	
5.0		0.20		30.0		1.27		55.0		2.30		80.0		3.29	
5.5		0.22		30.5		1.29		55.5		2.32		80.5		3.31	
6.0		0.24		31.0		1.31		56.0		2.34		81.0		3.33	
6.5		0.26		31.5		1.33		56.5		2.36		81.5		3.35	
7.0		0.28		32.0		1.35		57.0		2.38		82.0		3.37	
7.5		0.31		32.5		1.37		57.5		2.40		82.5		3.39	
8.0		0.33		33.0		1.39		58.0		2.42		83.0		3.41	
8.5		0.35		33.5		1.41		58.5		2.44		83.5		3.43	
9.0		0.37		34.0		1.44		59.0		2.46		84.0		3.44	
9.5		0.39		34.5		1.46		59.5		2.48		84.5		3.46	
10.0		0.41		35.0		1.48		60.0		2.50		85.0		3.48	
10.5		0.44		35.5		1.50		60.5		2.52		85.5		3.50	
11.0		0.46		36.0		1.52		61.0		2.54		86.0		3.52	
11.5		0.48		36.5		1.54		61.5		2.56		86.5		3.54	
12.0		0.50		37.0		1.56		62.0		2.58		87.0		3.56	
12.5		0.52		37.5		1.58		62.5		2.60		87.5		3.58	
13.0		0.54		38.0		1.60		63.0		2.62		88.0		3.60	
13.5		0.57		38.5		1.62		63.5		2.64		88.5		3.62	
14.0		0.59		39.0		1.64		64.0		2.66		89.0		3.64	
14.5		0.61		39.5		1.66		64.5		2.68		89.5		3.66	
15.0		0.63		40.0		1.68		65.0		2.70		90.0		3.68	
15.5		0.65		40.5		1.71		65.5		2.72		90.5		3.69	
16.0		0.67		41.0		1.73		66.0		2.74		91.0		3.71	
16.5		0.69		41.5		1.75		66.5		2.76		91.5		3.73	
17.0		0.72		42.0		1.77		67.0		2.78		92.0		3.75	
17.5		0.74		42.5		1.79		67.5		2.80		92.5		3.77	
18.0		0.76		43.0		1.81		68.0		2.82		93.0		3.79	
18.5		0.78		43.5		1.83		68.5		2.84		93.5		3.81	
19.0		0.80		44.0		1.85		69.0		2.86		94.0		3.83	
19.5		0.82		44.5		1.87		69.5		2.88		94.5		3.85	
20.0		0.84		45.0		1.89		70.0		2.90		95.0		3.87	
20.5		0.87		45.5		1.91		70.5		2.92		95.5		3.89	
21.0		0.89		46.0		1.93		71.0		2.94		96.0		3.90	
21.5		0.91		46.5		1.95		71.5		2.96		96.5		3.92	
22.0		0.93		47.0		1.97		72.0		2.98		97.0		3.94	
22.5		0.95		47.5		1.99		72.5		3.00		97.5		3.96	
23.0		0.97		48.0		2.01		73.0		3.02		98.0		3.98	
23.5		0.99		48.5		2.03		73.5		3.04		98.5		4.00	
24.0		1.01		49.0		2.05		74.0		3.06		99.0		4.02	
24.5		1.04		49.5		2.07		74.5		3.07		99.5		4.04	
25.0		1.06		50.0		2.10		75.0		3.09		100.0		4.06	

				Temperature, °C				19.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		4.07		125.5		5.00		150.5		5.89		175.5		6.74	
101.0		4.09		126.0		5.02		151.0		5.90		176.0		6.76	
101.5		4.11		126.5		5.03		151.5		5.92		176.5		6.77	
102.0		4.13		127.0		5.05		152.0		5.94		177.0		6.79	
102.5		4.15		127.5		5.07		152.5		5.96		177.5		6.81	
103.0		4.17		128.0		5.09		153.0		5.97		178.0		6.82	
103.5		4.19		128.5		5.11		153.5		5.99		178.5		6.84	
104.0		4.21		129.0		5.12		154.0		6.01		179.0		6.86	
104.5		4.22		129.5		5.14		154.5		6.03		179.5		6.87	
105.0		4.24		130.0		5.16		155.0		6.04		180.0		6.89	
105.5		4.26		130.5		5.18		155.5		6.06		180.5		6.91	
106.0		4.28		131.0		5.20		156.0		6.08		181.0		6.92	
106.5		4.30		131.5		5.21		156.5		6.09		181.5		6.94	
107.0		4.32		132.0		5.23		157.0		6.11		182.0		6.96	
107.5		4.34		132.5		5.25		157.5		6.13		182.5		6.97	
108.0		4.36		133.0		5.27		158.0		6.15		183.0		6.99	
108.5		4.37		133.5		5.29		158.5		6.16		183.5		7.01	
109.0		4.39		134.0		5.30		159.0		6.18		184.0		7.02	
109.5		4.41		134.5		5.32		159.5		6.20		184.5		7.04	
110.0		4.43		135.0		5.34		160.0		6.22		185.0		7.06	
110.5		4.45		135.5		5.36		160.5		6.23		185.5		7.07	
111.0		4.47		136.0		5.38		161.0		6.25		186.0		7.09	
111.5		4.49		136.5		5.39		161.5		6.27		186.5		7.11	
112.0		4.50		137.0		5.41		162.0		6.28		187.0		7.12	
112.5		4.52		137.5		5.43		162.5		6.30		187.5		7.14	
113.0		4.54		138.0		5.45		163.0		6.32		188.0		7.16	
113.5		4.56		138.5		5.46		163.5		6.34		188.5		7.17	
114.0		4.58		139.0		5.48		164.0		6.35		189.0		7.19	
114.5		4.60		139.5		5.50		164.5		6.37		189.5		7.21	
115.0		4.61		140.0		5.52		165.0		6.39		190.0		7.22	
115.5		4.63		140.5		5.54		165.5		6.40		190.5		7.24	
116.0		4.65		141.0		5.55		166.0		6.42		191.0		7.25	
116.5		4.67		141.5		5.57		166.5		6.44		191.5		7.27	
117.0		4.69		142.0		5.59		167.0		6.45		192.0		7.29	
117.5		4.71		142.5		5.61		167.5		6.47		192.5		7.30	
118.0		4.72		143.0		5.62		168.0		6.49		193.0		7.32	
118.5		4.74		143.5		5.64		168.5		6.51		193.5		7.34	
119.0		4.76		144.0		5.66		169.0		6.52		194.0		7.35	
119.5		4.78		144.5		5.68		169.5		6.54		194.5		7.37	
120.0		4.80		145.0		5.69		170.0		6.56		195.0		7.38	
120.5		4.82		145.5		5.71		170.5		6.57		195.5		7.40	
121.0		4.83		146.0		5.73		171.0		6.59		196.0		7.42	
121.5		4.85		146.5		5.75		171.5		6.61		196.5		7.43	
122.0		4.87		147.0		5.76		172.0		6.62		197.0		7.45	
122.5		4.89		147.5		5.78		172.5		6.64		197.5		7.47	
123.0		4.91		148.0		5.80		173.0		6.66		198.0		7.48	
123.5		4.93		148.5		5.82		173.5		6.67		198.5		7.50	
124.0		4.94		149.0		5.83		174.0		6.69		199.0		7.51	
124.5		4.96		149.5		5.85		174.5		6.71		199.5		7.53	
125.0		4.98		150.0		5.87		175.0		6.72		200.0		7.55	

				Temperature, °C											
				20.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.07		50.5		2.11		75.5		3.10	
1.0		0.02		26.0		1.10		51.0		2.13		76.0		3.12	
1.5		0.04		26.5		1.12		51.5		2.15		76.5		3.14	
2.0		0.07		27.0		1.14		52.0		2.17		77.0		3.16	
2.5		0.09		27.5		1.16		52.5		2.19		77.5		3.18	
3.0		0.11		28.0		1.18		53.0		2.21		78.0		3.20	
3.5		0.13		28.5		1.20		53.5		2.23		78.5		3.22	
4.0		0.15		29.0		1.22		54.0		2.25		79.0		3.24	
4.5		0.17		29.5		1.24		54.5		2.27		79.5		3.26	
5.0		0.20		30.0		1.26		55.0		2.29		80.0		3.28	
5.5		0.22		30.5		1.28		55.5		2.31		80.5		3.30	
6.0		0.24		31.0		1.30		56.0		2.33		81.0		3.32	
6.5		0.26		31.5		1.33		56.5		2.35		81.5		3.34	
7.0		0.28		32.0		1.35		57.0		2.37		82.0		3.35	
7.5		0.30		32.5		1.37		57.5		2.39		82.5		3.37	
8.0		0.33		33.0		1.39		58.0		2.41		83.0		3.39	
8.5		0.35		33.5		1.41		58.5		2.43		83.5		3.41	
9.0		0.37		34.0		1.43		59.0		2.45		84.0		3.43	
9.5		0.39		34.5		1.45		59.5		2.47		84.5		3.45	
10.0		0.41		35.0		1.47		60.0		2.49		85.0		3.47	
10.5		0.43		35.5		1.49		60.5		2.51		85.5		3.49	
11.0		0.46		36.0		1.51		61.0		2.53		86.0		3.51	
11.5		0.48		36.5		1.53		61.5		2.55		86.5		3.53	
12.0		0.50		37.0		1.55		62.0		2.57		87.0		3.55	
12.5		0.52		37.5		1.58		62.5		2.59		87.5		3.57	
13.0		0.54		38.0		1.60		63.0		2.61		88.0		3.59	
13.5		0.56		38.5		1.62		63.5		2.63		88.5		3.60	
14.0		0.59		39.0		1.64		64.0		2.65		89.0		3.62	
14.5		0.61		39.5		1.66		64.5		2.67		89.5		3.64	
15.0		0.63		40.0		1.68		65.0		2.69		90.0		3.66	
15.5		0.65		40.5		1.70		65.5		2.71		90.5		3.68	
16.0		0.67		41.0		1.72		66.0		2.73		91.0		3.70	
16.5		0.69		41.5		1.74		66.5		2.75		91.5		3.72	
17.0		0.71		42.0		1.76		67.0		2.77		92.0		3.74	
17.5		0.73		42.5		1.78		67.5		2.79		92.5		3.76	
18.0		0.76		43.0		1.80		68.0		2.81		93.0		3.78	
18.5		0.78		43.5		1.82		68.5		2.83		93.5		3.79	
19.0		0.80		44.0		1.84		69.0		2.85		94.0		3.81	
19.5		0.82		44.5		1.86		69.5		2.87		94.5		3.83	
20.0		0.84		45.0		1.88		70.0		2.89		95.0		3.85	
20.5		0.86		45.5		1.90		70.5		2.91		95.5		3.87	
21.0		0.88		46.0		1.92		71.0		2.93		96.0		3.89	
21.5		0.90		46.5		1.94		71.5		2.95		96.5		3.91	
22.0		0.93		47.0		1.97		72.0		2.97		97.0		3.93	
22.5		0.95		47.5		1.99		72.5		2.98		97.5		3.95	
23.0		0.97		48.0		2.01		73.0		3.00		98.0		3.96	
23.5		0.99		48.5		2.03		73.5		3.02		98.5		3.98	
24.0		1.01		49.0		2.05		74.0		3.04		99.0		4.00	
24.5		1.03		49.5		2.07		74.5		3.06		99.5		4.02	
25.0		1.05		50.0		2.09		75.0		3.08		100.0		4.04	

Temperature, °F

68.0

				Temperature, °C		20.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
100.5	4.06	125.5	4.98	150.5	5.86	175.5	6.72
101.0	4.08	126.0	5.00	151.0	5.88	176.0	6.73
101.5	4.10	126.5	5.02	151.5	5.90	176.5	6.75
102.0	4.12	127.0	5.03	152.0	5.92	177.0	6.77
102.5	4.13	127.5	5.05	152.5	5.93	177.5	6.78
103.0	4.15	128.0	5.07	153.0	5.95	178.0	6.80
103.5	4.17	128.5	5.09	153.5	5.97	178.5	6.82
104.0	4.19	129.0	5.11	154.0	5.99	179.0	6.83
104.5	4.21	129.5	5.12	154.5	6.00	179.5	6.85
105.0	4.23	130.0	5.14	155.0	6.02	180.0	6.87
105.5	4.25	130.5	5.16	155.5	6.04	180.5	6.88
106.0	4.26	131.0	5.18	156.0	6.05	181.0	6.90
106.5	4.28	131.5	5.20	156.5	6.07	181.5	6.92
107.0	4.30	132.0	5.21	157.0	6.09	182.0	6.93
107.5	4.32	132.5	5.23	157.5	6.11	182.5	6.95
108.0	4.34	133.0	5.25	158.0	6.12	183.0	6.97
108.5	4.36	133.5	5.27	158.5	6.14	183.5	6.98
109.0	4.38	134.0	5.28	159.0	6.16	184.0	7.00
109.5	4.39	134.5	5.30	159.5	6.18	184.5	7.01
110.0	4.41	135.0	5.32	160.0	6.19	185.0	7.03
110.5	4.43	135.5	5.34	160.5	6.21	185.5	7.05
111.0	4.45	136.0	5.36	161.0	6.23	186.0	7.06
111.5	4.47	136.5	5.37	161.5	6.24	186.5	7.08
112.0	4.49	137.0	5.39	162.0	6.26	187.0	7.10
112.5	4.51	137.5	5.41	162.5	6.28	187.5	7.11
113.0	4.52	138.0	5.43	163.0	6.29	188.0	7.13
113.5	4.54	138.5	5.44	163.5	6.31	188.5	7.15
114.0	4.56	139.0	5.46	164.0	6.33	189.0	7.16
114.5	4.58	139.5	5.48	164.5	6.35	189.5	7.18
115.0	4.60	140.0	5.50	165.0	6.36	190.0	7.20
115.5	4.62	140.5	5.51	165.5	6.38	190.5	7.21
116.0	4.63	141.0	5.53	166.0	6.40	191.0	7.23
116.5	4.65	141.5	5.55	166.5	6.41	191.5	7.24
117.0	4.67	142.0	5.57	167.0	6.43	192.0	7.26
117.5	4.69	142.5	5.59	167.5	6.45	192.5	7.28
118.0	4.71	143.0	5.60	168.0	6.46	193.0	7.29
118.5	4.73	143.5	5.62	168.5	6.48	193.5	7.31
119.0	4.74	144.0	5.64	169.0	6.50	194.0	7.33
119.5	4.76	144.5	5.66	169.5	6.51	194.5	7.34
120.0	4.78	145.0	5.67	170.0	6.53	195.0	7.36
120.5	4.80	145.5	5.69	170.5	6.55	195.5	7.37
121.0	4.82	146.0	5.71	171.0	6.57	196.0	7.39
121.5	4.83	146.5	5.73	171.5	6.58	196.5	7.41
122.0	4.85	147.0	5.74	172.0	6.60	197.0	7.42
122.5	4.87	147.5	5.76	172.5	6.62	197.5	7.44
123.0	4.89	148.0	5.78	173.0	6.63	198.0	7.45
123.5	4.91	148.5	5.80	173.5	6.65	198.5	7.47
124.0	4.93	149.0	5.81	174.0	6.67	199.0	7.49
124.5	4.94	149.5	5.83	174.5	6.68	199.5	7.50
125.0	4.96	150.0	5.85	175.0	6.70	200.0	7.52

Temperature, °F

68.0

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.07	50.5	2.10	75.5	3.09
1.0	0.02	26.0	1.09	51.0	2.12	76.0	3.11
1.5	0.04	26.5	1.11	51.5	2.14	76.5	3.13
2.0	0.07	27.0	1.13	52.0	2.16	77.0	3.15
2.5	0.09	27.5	1.15	52.5	2.18	77.5	3.17
3.0	0.11	28.0	1.17	53.0	2.20	78.0	3.19
3.5	0.13	28.5	1.20	53.5	2.22	78.5	3.21
4.0	0.15	29.0	1.22	54.0	2.24	79.0	3.23
4.5	0.17	29.5	1.24	54.5	2.26	79.5	3.25
5.0	0.20	30.0	1.26	55.0	2.28	80.0	3.26
5.5	0.22	30.5	1.28	55.5	2.30	80.5	3.28
6.0	0.24	31.0	1.30	56.0	2.32	81.0	3.30
6.5	0.26	31.5	1.32	56.5	2.34	81.5	3.32
7.0	0.28	32.0	1.34	57.0	2.36	82.0	3.34
7.5	0.30	32.5	1.36	57.5	2.38	82.5	3.36
8.0	0.33	33.0	1.38	58.0	2.40	83.0	3.38
8.5	0.35	33.5	1.40	58.5	2.42	83.5	3.40
9.0	0.37	34.0	1.42	59.0	2.44	84.0	3.42
9.5	0.39	34.5	1.45	59.5	2.46	84.5	3.44
10.0	0.41	35.0	1.47	60.0	2.48	85.0	3.46
10.5	0.43	35.5	1.49	60.5	2.50	85.5	3.48
11.0	0.45	36.0	1.51	61.0	2.52	86.0	3.50
11.5	0.48	36.5	1.53	61.5	2.54	86.5	3.51
12.0	0.50	37.0	1.55	62.0	2.56	87.0	3.53
12.5	0.52	37.5	1.57	62.5	2.58	87.5	3.55
13.0	0.54	38.0	1.59	63.0	2.60	88.0	3.57
13.5	0.56	38.5	1.61	63.5	2.62	88.5	3.59
14.0	0.58	39.0	1.63	64.0	2.64	89.0	3.61
14.5	0.60	39.5	1.65	64.5	2.66	89.5	3.63
15.0	0.63	40.0	1.67	65.0	2.68	90.0	3.65
15.5	0.65	40.5	1.69	65.5	2.70	90.5	3.67
16.0	0.67	41.0	1.71	66.0	2.72	91.0	3.69
16.5	0.69	41.5	1.73	66.5	2.74	91.5	3.70
17.0	0.71	42.0	1.75	67.0	2.76	92.0	3.72
17.5	0.73	42.5	1.77	67.5	2.78	92.5	3.74
18.0	0.75	43.0	1.79	68.0	2.80	93.0	3.76
18.5	0.77	43.5	1.82	68.5	2.82	93.5	3.78
19.0	0.80	44.0	1.84	69.0	2.84	94.0	3.80
19.5	0.82	44.5	1.86	69.5	2.86	94.5	3.82
20.0	0.84	45.0	1.88	70.0	2.88	95.0	3.84
20.5	0.86	45.5	1.90	70.5	2.90	95.5	3.86
21.0	0.88	46.0	1.92	71.0	2.91	96.0	3.87
21.5	0.90	46.5	1.94	71.5	2.93	96.5	3.89
22.0	0.92	47.0	1.96	72.0	2.95	97.0	3.91
22.5	0.94	47.5	1.98	72.5	2.97	97.5	3.93
23.0	0.96	48.0	2.00	73.0	2.99	98.0	3.95
23.5	0.99	48.5	2.02	73.5	3.01	98.5	3.97
24.0	1.01	49.0	2.04	74.0	3.03	99.0	3.99
24.5	1.03	49.5	2.06	74.5	3.05	99.5	4.01
25.0	1.05	50.0	2.08	75.0	3.07	100.0	4.03

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
100.5	4.04	125.5	4.96	150.5	5.84	175.5	6.69
101.0	4.06	126.0	4.98	151.0	5.86	176.0	6.71
101.5	4.08	126.5	5.00	151.5	5.88	176.5	6.72
102.0	4.10	127.0	5.01	152.0	5.89	177.0	6.74
102.5	4.12	127.5	5.03	152.5	5.91	177.5	6.76
103.0	4.14	128.0	5.05	153.0	5.93	178.0	6.77
103.5	4.16	128.5	5.07	153.5	5.95	178.5	6.79
104.0	4.17	129.0	5.09	154.0	5.96	179.0	6.81
104.5	4.19	129.5	5.10	154.5	5.98	179.5	6.82
105.0	4.21	130.0	5.12	155.0	6.00	180.0	6.84
105.5	4.23	130.5	5.14	155.5	6.02	180.5	6.86
106.0	4.25	131.0	5.16	156.0	6.03	181.0	6.87
106.5	4.27	131.5	5.18	156.5	6.05	181.5	6.89
107.0	4.29	132.0	5.19	157.0	6.07	182.0	6.91
107.5	4.30	132.5	5.21	157.5	6.08	182.5	6.92
108.0	4.32	133.0	5.23	158.0	6.10	183.0	6.94
108.5	4.34	133.5	5.25	158.5	6.12	183.5	6.96
109.0	4.36	134.0	5.26	159.0	6.14	184.0	6.97
109.5	4.38	134.5	5.28	159.5	6.15	184.5	6.99
110.0	4.40	135.0	5.30	160.0	6.17	185.0	7.01
110.5	4.41	135.5	5.32	160.5	6.19	185.5	7.02
111.0	4.43	136.0	5.34	161.0	6.20	186.0	7.04
111.5	4.45	136.5	5.35	161.5	6.22	186.5	7.05
112.0	4.47	137.0	5.37	162.0	6.24	187.0	7.07
112.5	4.49	137.5	5.39	162.5	6.25	187.5	7.09
113.0	4.51	138.0	5.41	163.0	6.27	188.0	7.10
113.5	4.53	138.5	5.42	163.5	6.29	188.5	7.12
114.0	4.54	139.0	5.44	164.0	6.31	189.0	7.14
114.5	4.56	139.5	5.46	164.5	6.32	189.5	7.15
115.0	4.58	140.0	5.48	165.0	6.34	190.0	7.17
115.5	4.60	140.5	5.49	165.5	6.36	190.5	7.18
116.0	4.62	141.0	5.51	166.0	6.37	191.0	7.20
116.5	4.63	141.5	5.53	166.5	6.39	191.5	7.22
117.0	4.65	142.0	5.55	167.0	6.41	192.0	7.23
117.5	4.67	142.5	5.56	167.5	6.42	192.5	7.25
118.0	4.69	143.0	5.58	168.0	6.44	193.0	7.27
118.5	4.71	143.5	5.60	168.5	6.46	193.5	7.28
119.0	4.73	144.0	5.62	169.0	6.47	194.0	7.30
119.5	4.74	144.5	5.63	169.5	6.49	194.5	7.31
120.0	4.76	145.0	5.65	170.0	6.51	195.0	7.33
120.5	4.78	145.5	5.67	170.5	6.52	195.5	7.35
121.0	4.80	146.0	5.69	171.0	6.54	196.0	7.36
121.5	4.82	146.5	5.70	171.5	6.56	196.5	7.38
122.0	4.83	147.0	5.72	172.0	6.57	197.0	7.40
122.5	4.85	147.5	5.74	172.5	6.59	197.5	7.41
123.0	4.87	148.0	5.76	173.0	6.61	198.0	7.43
123.5	4.89	148.5	5.77	173.5	6.62	198.5	7.44
124.0	4.91	149.0	5.79	174.0	6.64	199.0	7.46
124.5	4.92	149.5	5.81	174.5	6.66	199.5	7.48
125.0	4.94	150.0	5.83	175.0	6.67	200.0	7.49

Temperature, °F

69.8

Temperature, °C

22.0

atu	-	kg	atu	-	kg	atu	-	kg	atu	-	kg
0.5		0.00	25.5		1.07	50.5		2.09	75.5		3.08
1.0		0.02	26.0		1.09	51.0		2.11	76.0		3.10
1.5		0.04	26.5		1.11	51.5		2.13	76.5		3.12
2.0		0.07	27.0		1.13	52.0		2.15	77.0		3.14
2.5		0.09	27.5		1.15	52.5		2.17	77.5		3.16
3.0		0.11	28.0		1.17	53.0		2.19	78.0		3.18
3.5		0.13	28.5		1.19	53.5		2.21	78.5		3.19
4.0		0.15	29.0		1.21	54.0		2.23	79.0		3.21
4.5		0.17	29.5		1.23	54.5		2.25	79.5		3.23
5.0		0.19	30.0		1.25	55.0		2.27	80.0		3.25
5.5		0.22	30.5		1.27	55.5		2.29	80.5		3.27
6.0		0.24	31.0		1.29	56.0		2.31	81.0		3.29
6.5		0.26	31.5		1.32	56.5		2.33	81.5		3.31
7.0		0.28	32.0		1.34	57.0		2.35	82.0		3.33
7.5		0.30	32.5		1.36	57.5		2.37	82.5		3.35
8.0		0.32	33.0		1.38	58.0		2.39	83.0		3.37
8.5		0.35	33.5		1.40	58.5		2.41	83.5		3.39
9.0		0.37	34.0		1.42	59.0		2.43	84.0		3.41
9.5		0.39	34.5		1.44	59.5		2.45	84.5		3.42
10.0		0.41	35.0		1.46	60.0		2.47	85.0		3.44
10.5		0.43	35.5		1.48	60.5		2.49	85.5		3.46
11.0		0.45	36.0		1.50	61.0		2.51	86.0		3.48
11.5		0.47	36.5		1.52	61.5		2.53	86.5		3.50
12.0		0.50	37.0		1.54	62.0		2.55	87.0		3.52
12.5		0.52	37.5		1.56	62.5		2.57	87.5		3.54
13.0		0.54	38.0		1.58	63.0		2.59	88.0		3.56
13.5		0.56	38.5		1.60	63.5		2.61	88.5		3.58
14.0		0.58	39.0		1.62	64.0		2.63	89.0		3.60
14.5		0.60	39.5		1.65	64.5		2.65	89.5		3.62
15.0		0.62	40.0		1.67	65.0		2.67	90.0		3.63
15.5		0.64	40.5		1.69	65.5		2.69	90.5		3.65
16.0		0.67	41.0		1.71	66.0		2.71	91.0		3.67
16.5		0.69	41.5		1.73	66.5		2.73	91.5		3.69
17.0		0.71	42.0		1.75	67.0		2.75	92.0		3.71
17.5		0.73	42.5		1.77	67.5		2.77	92.5		3.73
18.0		0.75	43.0		1.79	68.0		2.79	93.0		3.75
18.5		0.77	43.5		1.81	68.5		2.81	93.5		3.77
19.0		0.79	44.0		1.83	69.0		2.83	94.0		3.79
19.5		0.81	44.5		1.85	69.5		2.85	94.5		3.80
20.0		0.83	45.0		1.87	70.0		2.86	95.0		3.82
20.5		0.86	45.5		1.89	70.5		2.88	95.5		3.84
21.0		0.88	46.0		1.91	71.0		2.90	96.0		3.86
21.5		0.90	46.5		1.93	71.5		2.92	96.5		3.88
22.0		0.92	47.0		1.95	72.0		2.94	97.0		3.90
22.5		0.94	47.5		1.97	72.5		2.96	97.5		3.92
23.0		0.96	48.0		1.99	73.0		2.98	98.0		3.94
23.5		0.98	48.5		2.01	73.5		3.00	98.5		3.95
24.0		1.00	49.0		2.03	74.0		3.02	99.0		3.97
24.5		1.02	49.5		2.05	74.5		3.04	99.5		3.99
25.0		1.04	50.0		2.07	75.0		3.06	100.0		4.01

Temperature, °F

71.6

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				Temperature, °C		22.0		
atü	-	kg	atü	-	kg	atü	-	kg
100.5		4.03	125.5		4.94	150.5		5.82
101.0		4.05	126.0		4.96	151.0		5.84
101.5		4.07	126.5		4.98	151.5		5.86
102.0		4.08	127.0		5.00	152.0		5.87
102.5		4.10	127.5		5.01	152.5		5.89
103.0		4.12	128.0		5.03	153.0		5.91
103.5		4.14	128.5		5.05	153.5		5.92
104.0		4.16	129.0		5.07	154.0		5.94
104.5		4.18	129.5		5.09	154.5		5.96
105.0		4.20	130.0		5.10	155.0		5.98
105.5		4.21	130.5		5.12	155.5		5.99
106.0		4.23	131.0		5.14	156.0		6.01
106.5		4.25	131.5		5.16	156.5		6.03
107.0		4.27	132.0		5.17	157.0		6.04
107.5		4.29	132.5		5.19	157.5		6.06
108.0		4.31	133.0		5.21	158.0		6.08
108.5		4.32	133.5		5.23	158.5		6.10
109.0		4.34	134.0		5.24	159.0		6.11
109.5		4.36	134.5		5.26	159.5		6.13
110.0		4.38	135.0		5.28	160.0		6.15
110.5		4.40	135.5		5.30	160.5		6.16
111.0		4.42	136.0		5.32	161.0		6.18
111.5		4.43	136.5		5.33	161.5		6.20
112.0		4.45	137.0		5.35	162.0		6.21
112.5		4.47	137.5		5.37	162.5		6.23
113.0		4.49	138.0		5.39	163.0		6.25
113.5		4.51	138.5		5.40	163.5		6.26
114.0		4.53	139.0		5.42	164.0		6.28
114.5		4.54	139.5		5.44	164.5		6.30
115.0		4.56	140.0		5.46	165.0		6.32
115.5		4.58	140.5		5.47	165.5		6.33
116.0		4.60	141.0		5.49	166.0		6.35
116.5		4.62	141.5		5.51	166.5		6.37
117.0		4.64	142.0		5.53	167.0		6.38
117.5		4.65	142.5		5.54	167.5		6.40
118.0		4.67	143.0		5.56	168.0		6.42
118.5		4.69	143.5		5.58	168.5		6.43
119.0		4.71	144.0		5.60	169.0		6.45
119.5		4.73	144.5		5.61	169.5		6.47
120.0		4.74	145.0		5.63	170.0		6.48
120.5		4.76	145.5		5.65	170.5		6.50
121.0		4.78	146.0		5.67	171.0		6.52
121.5		4.80	146.5		5.68	171.5		6.53
122.0		4.82	147.0		5.70	172.0		6.55
122.5		4.83	147.5		5.72	172.5		6.57
123.0		4.85	148.0		5.73	173.0		6.58
123.5		4.87	148.5		5.75	173.5		6.60
124.0		4.89	149.0		5.77	174.0		6.62
124.5		4.91	149.5		5.79	174.5		6.63
125.0		4.92	150.0		5.80	175.0		6.65

Temperature, °F

71.6

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				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.06	50.5	2.08	75.5	3.07
1.0	0.02	26.0	1.08	51.0	2.10	76.0	3.09
1.5	0.04	26.5	1.10	51.5	2.12	76.5	3.11
2.0	0.06	27.0	1.12	52.0	2.14	77.0	3.12
2.5	0.09	27.5	1.15	52.5	2.16	77.5	3.14
3.0	0.11	28.0	1.17	53.0	2.18	78.0	3.16
3.5	0.13	28.5	1.19	53.5	2.20	78.5	3.18
4.0	0.15	29.0	1.21	54.0	2.22	79.0	3.20
4.5	0.17	29.5	1.23	54.5	2.24	79.5	3.22
5.0	0.19	30.0	1.25	55.0	2.26	80.0	3.24
5.5	0.22	30.5	1.27	55.5	2.28	80.5	3.26
6.0	0.24	31.0	1.29	56.0	2.30	81.0	3.28
6.5	0.26	31.5	1.31	56.5	2.32	81.5	3.30
7.0	0.28	32.0	1.33	57.0	2.34	82.0	3.32
7.5	0.30	32.5	1.35	57.5	2.36	82.5	3.34
8.0	0.32	33.0	1.37	58.0	2.38	83.0	3.35
8.5	0.34	33.5	1.39	58.5	2.40	83.5	3.37
9.0	0.37	34.0	1.41	59.0	2.42	84.0	3.39
9.5	0.39	34.5	1.43	59.5	2.44	84.5	3.41
10.0	0.41	35.0	1.45	60.0	2.46	85.0	3.43
10.5	0.43	35.5	1.48	60.5	2.48	85.5	3.45
11.0	0.45	36.0	1.50	61.0	2.50	86.0	3.47
11.5	0.47	36.5	1.52	61.5	2.52	86.5	3.49
12.0	0.49	37.0	1.54	62.0	2.54	87.0	3.51
12.5	0.51	37.5	1.56	62.5	2.56	87.5	3.53
13.0	0.54	38.0	1.58	63.0	2.58	88.0	3.54
13.5	0.56	38.5	1.60	63.5	2.60	88.5	3.56
14.0	0.58	39.0	1.62	64.0	2.62	89.0	3.58
14.5	0.60	39.5	1.64	64.5	2.64	89.5	3.60
15.0	0.62	40.0	1.66	65.0	2.66	90.0	3.62
15.5	0.64	40.5	1.68	65.5	2.68	90.5	3.64
16.0	0.66	41.0	1.70	66.0	2.70	91.0	3.66
16.5	0.68	41.5	1.72	66.5	2.72	91.5	3.68
17.0	0.71	42.0	1.74	67.0	2.74	92.0	3.70
17.5	0.73	42.5	1.76	67.5	2.76	92.5	3.71
18.0	0.75	43.0	1.78	68.0	2.78	93.0	3.73
18.5	0.77	43.5	1.80	68.5	2.80	93.5	3.75
19.0	0.79	44.0	1.82	69.0	2.82	94.0	3.77
19.5	0.81	44.5	1.84	69.5	2.83	94.5	3.79
20.0	0.83	45.0	1.86	70.0	2.85	95.0	3.81
20.5	0.85	45.5	1.88	70.5	2.87	95.5	3.83
21.0	0.87	46.0	1.90	71.0	2.89	96.0	3.85
21.5	0.89	46.5	1.92	71.5	2.91	96.5	3.86
22.0	0.92	47.0	1.94	72.0	2.93	97.0	3.88
22.5	0.94	47.5	1.96	72.5	2.95	97.5	3.90
23.0	0.96	48.0	1.98	73.0	2.97	98.0	3.92
23.5	0.98	48.5	2.00	73.5	2.99	98.5	3.94
24.0	1.00	49.0	2.02	74.0	3.01	99.0	3.96
24.5	1.02	49.5	2.04	74.5	3.03	99.5	3.98
25.0	1.04	50.0	2.06	75.0	3.05	100.0	3.99

				Temperature, °C		23.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
100.5	4.01	125.5	4.92	150.5	5.80	175.5	6.64
101.0	4.03	126.0	4.94	151.0	5.82	176.0	6.66
101.5	4.05	126.5	4.96	151.5	5.83	176.5	6.67
102.0	4.07	127.0	4.98	152.0	5.85	177.0	6.69
102.5	4.09	127.5	4.99	152.5	5.87	177.5	6.71
103.0	4.11	128.0	5.01	153.0	5.88	178.0	6.72
103.5	4.12	128.5	5.03	153.5	5.90	178.5	6.74
104.0	4.14	129.0	5.05	154.0	5.92	179.0	6.76
104.5	4.16	129.5	5.07	154.5	5.94	179.5	6.77
105.0	4.18	130.0	5.08	155.0	5.95	180.0	6.79
105.5	4.20	130.5	5.10	155.5	5.97	180.5	6.81
106.0	4.22	131.0	5.12	156.0	5.99	181.0	6.82
106.5	4.23	131.5	5.14	156.5	6.00	181.5	6.84
107.0	4.25	132.0	5.15	157.0	6.02	182.0	6.86
107.5	4.27	132.5	5.17	157.5	6.04	182.5	6.87
108.0	4.29	133.0	5.19	158.0	6.06	183.0	6.89
108.5	4.31	133.5	5.21	158.5	6.07	183.5	6.90
109.0	4.33	134.0	5.23	159.0	6.09	184.0	6.92
109.5	4.34	134.5	5.24	159.5	6.11	184.5	6.94
110.0	4.36	135.0	5.26	160.0	6.12	185.0	6.95
110.5	4.38	135.5	5.28	160.5	6.14	185.5	6.97
111.0	4.40	136.0	5.30	161.0	6.16	186.0	6.99
111.5	4.42	136.5	5.31	161.5	6.17	186.5	7.00
112.0	4.44	137.0	5.33	162.0	6.19	187.0	7.02
112.5	4.45	137.5	5.35	162.5	6.21	187.5	7.03
113.0	4.47	138.0	5.37	163.0	6.22	188.0	7.05
113.5	4.49	138.5	5.38	163.5	6.24	188.5	7.07
114.0	4.51	139.0	5.40	164.0	6.26	189.0	7.08
114.5	4.53	139.5	5.42	164.5	6.27	189.5	7.10
115.0	4.55	140.0	5.44	165.0	6.29	190.0	7.12
115.5	4.56	140.5	5.45	165.5	6.31	190.5	7.13
116.0	4.58	141.0	5.47	166.0	6.33	191.0	7.15
116.5	4.60	141.5	5.49	166.5	6.34	191.5	7.16
117.0	4.62	142.0	5.51	167.0	6.36	192.0	7.18
117.5	4.64	142.5	5.52	167.5	6.38	192.5	7.20
118.0	4.65	143.0	5.54	168.0	6.39	193.0	7.21
118.5	4.67	143.5	5.56	168.5	6.41	193.5	7.23
119.0	4.69	144.0	5.57	169.0	6.43	194.0	7.24
119.5	4.71	144.5	5.59	169.5	6.44	194.5	7.26
120.0	4.73	145.0	5.61	170.0	6.46	195.0	7.28
120.5	4.74	145.5	5.63	170.5	6.48	195.5	7.29
121.0	4.76	146.0	5.64	171.0	6.49	196.0	7.31
121.5	4.78	146.5	5.66	171.5	6.51	196.5	7.32
122.0	4.80	147.0	5.68	172.0	6.53	197.0	7.34
122.5	4.82	147.5	5.70	172.5	6.54	197.5	7.36
123.0	4.83	148.0	5.71	173.0	6.56	198.0	7.37
123.5	4.85	148.5	5.73	173.5	6.58	198.5	7.39
124.0	4.87	149.0	5.75	174.0	6.59	199.0	7.40
124.5	4.89	149.5	5.76	174.5	6.61	199.5	7.42
125.0	4.91	150.0	5.78	175.0	6.63	200.0	7.44

Temperature, °F

73.4

				Temperature, °C		24.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.06	50.5	2.08	75.5	3.06
1.0	0.02	26.0	1.08	51.0	2.10	76.0	3.07
1.5	0.04	26.5	1.10	51.5	2.12	76.5	3.09
2.0	0.06	27.0	1.12	52.0	2.14	77.0	3.11
2.5	0.09	27.5	1.14	52.5	2.16	77.5	3.13
3.0	0.11	28.0	1.16	53.0	2.18	78.0	3.15
3.5	0.13	28.5	1.18	53.5	2.20	78.5	3.17
4.0	0.15	29.0	1.20	54.0	2.22	79.0	3.19
4.5	0.17	29.5	1.22	54.5	2.24	79.5	3.21
5.0	0.19	30.0	1.24	55.0	2.25	80.0	3.23
5.5	0.21	30.5	1.26	55.5	2.27	80.5	3.25
6.0	0.24	31.0	1.29	56.0	2.29	81.0	3.27
6.5	0.26	31.5	1.31	56.5	2.31	81.5	3.28
7.0	0.28	32.0	1.33	57.0	2.33	82.0	3.30
7.5	0.30	32.5	1.35	57.5	2.35	82.5	3.32
8.0	0.32	33.0	1.37	58.0	2.37	83.0	3.34
8.5	0.34	33.5	1.39	58.5	2.39	83.5	3.36
9.0	0.36	34.0	1.41	59.0	2.41	84.0	3.38
9.5	0.39	34.5	1.43	59.5	2.43	84.5	3.40
10.0	0.41	35.0	1.45	60.0	2.45	85.0	3.42
10.5	0.43	35.5	1.47	60.5	2.47	85.5	3.44
11.0	0.45	36.0	1.49	61.0	2.49	86.0	3.46
11.5	0.47	36.5	1.51	61.5	2.51	86.5	3.47
12.0	0.49	37.0	1.53	62.0	2.53	87.0	3.49
12.5	0.51	37.5	1.55	62.5	2.55	87.5	3.51
13.0	0.53	38.0	1.57	63.0	2.57	88.0	3.53
13.5	0.56	38.5	1.59	63.5	2.59	88.5	3.55
14.0	0.58	39.0	1.61	64.0	2.61	89.0	3.57
14.5	0.60	39.5	1.63	64.5	2.63	89.5	3.59
15.0	0.62	40.0	1.65	65.0	2.65	90.0	3.61
15.5	0.64	40.5	1.67	65.5	2.67	90.5	3.63
16.0	0.66	41.0	1.69	66.0	2.69	91.0	3.64
16.5	0.68	41.5	1.71	66.5	2.71	91.5	3.66
17.0	0.70	42.0	1.73	67.0	2.73	92.0	3.68
17.5	0.72	42.5	1.75	67.5	2.75	92.5	3.70
18.0	0.74	43.0	1.77	68.0	2.77	93.0	3.72
18.5	0.77	43.5	1.79	68.5	2.78	93.5	3.74
19.0	0.79	44.0	1.81	69.0	2.80	94.0	3.76
19.5	0.81	44.5	1.83	69.5	2.82	94.5	3.77
20.0	0.83	45.0	1.86	70.0	2.84	95.0	3.79
20.5	0.85	45.5	1.88	70.5	2.86	95.5	3.81
21.0	0.87	46.0	1.90	71.0	2.88	96.0	3.83
21.5	0.89	46.5	1.92	71.5	2.90	96.5	3.85
22.0	0.91	47.0	1.94	72.0	2.92	97.0	3.87
22.5	0.93	47.5	1.96	72.5	2.94	97.5	3.89
23.0	0.95	48.0	1.98	73.0	2.96	98.0	3.91
23.5	0.97	48.5	2.00	73.5	2.98	98.5	3.92
24.0	1.00	49.0	2.02	74.0	3.00	99.0	3.94
24.5	1.02	49.5	2.04	74.5	3.02	99.5	3.96
25.0	1.04	50.0	2.06	75.0	3.04	100.0	3.98

Temperature, °F

75.2

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				Temperature, °C			
				25.0			
atü	-	kg		atü	-	kg	
0.5	0.00	25.5	1.05	50.5	2.07	75.5	3.04
1.0	0.02	26.0	1.07	51.0	2.09	76.0	3.06
1.5	0.04	26.5	1.10	51.5	2.11	76.5	3.08
2.0	0.06	27.0	1.12	52.0	2.13	77.0	3.10
2.5	0.09	27.5	1.14	52.5	2.15	77.5	3.12
3.0	0.11	28.0	1.16	53.0	2.17	78.0	3.14
3.5	0.13	28.5	1.18	53.5	2.19	78.5	3.16
4.0	0.15	29.0	1.20	54.0	2.21	79.0	3.18
4.5	0.17	29.5	1.22	54.5	2.23	79.5	3.20
5.0	0.19	30.0	1.24	55.0	2.25	80.0	3.22
5.5	0.21	30.5	1.26	55.5	2.27	80.5	3.23
6.0	0.24	31.0	1.28	56.0	2.29	81.0	3.25
6.5	0.26	31.5	1.30	56.5	2.31	81.5	3.27
7.0	0.28	32.0	1.32	57.0	2.33	82.0	3.29
7.5	0.30	32.5	1.34	57.5	2.34	82.5	3.31
8.0	0.32	33.0	1.36	58.0	2.36	83.0	3.33
8.5	0.34	33.5	1.38	58.5	2.38	83.5	3.35
9.0	0.36	34.0	1.40	59.0	2.40	84.0	3.37
9.5	0.38	34.5	1.42	59.5	2.42	84.5	3.39
10.0	0.41	35.0	1.44	60.0	2.44	85.0	3.40
10.5	0.43	35.5	1.46	60.5	2.46	85.5	3.42
11.0	0.45	36.0	1.48	61.0	2.48	86.0	3.44
11.5	0.47	36.5	1.50	61.5	2.50	86.5	3.46
12.0	0.49	37.0	1.53	62.0	2.52	87.0	3.48
12.5	0.51	37.5	1.55	62.5	2.54	87.5	3.50
13.0	0.53	38.0	1.57	63.0	2.56	88.0	3.52
13.5	0.55	38.5	1.59	63.5	2.58	88.5	3.54
14.0	0.57	39.0	1.61	64.0	2.60	89.0	3.56
14.5	0.60	39.5	1.63	64.5	2.62	89.5	3.57
15.0	0.62	40.0	1.65	65.0	2.64	90.0	3.59
15.5	0.64	40.5	1.67	65.5	2.66	90.5	3.61
16.0	0.66	41.0	1.69	66.0	2.68	91.0	3.63
16.5	0.68	41.5	1.71	66.5	2.70	91.5	3.65
17.0	0.70	42.0	1.73	67.0	2.72	92.0	3.67
17.5	0.72	42.5	1.75	67.5	2.74	92.5	3.69
18.0	0.74	43.0	1.77	68.0	2.75	93.0	3.70
18.5	0.76	43.5	1.79	68.5	2.77	93.5	3.72
19.0	0.78	44.0	1.81	69.0	2.79	94.0	3.74
19.5	0.80	44.5	1.83	69.5	2.81	94.5	3.76
20.0	0.83	45.0	1.85	70.0	2.83	95.0	3.78
20.5	0.85	45.5	1.87	70.5	2.85	95.5	3.80
21.0	0.87	46.0	1.89	71.0	2.87	96.0	3.82
21.5	0.89	46.5	1.91	71.5	2.89	96.5	3.83
22.0	0.91	47.0	1.93	72.0	2.91	97.0	3.85
22.5	0.93	47.5	1.95	72.5	2.93	97.5	3.87
23.0	0.95	48.0	1.97	73.0	2.95	98.0	3.89
23.5	0.97	48.5	1.99	73.5	2.97	98.5	3.91
24.0	0.99	49.0	2.01	74.0	2.99	99.0	3.93
24.5	1.01	49.5	2.03	74.5	3.01	99.5	3.95
25.0	1.03	50.0	2.05	75.0	3.02	100.0	3.96

Temperature, °F

77.0

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				Temperature, °C		26.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.05	50.5	2.06	75.5	3.03
1.0	0.02	26.0	1.07	51.0	2.08	76.0	3.05
1.5	0.04	26.5	1.09	51.5	2.10	76.5	3.07
2.0	0.06	27.0	1.11	52.0	2.12	77.0	3.09
2.5	0.09	27.5	1.13	52.5	2.14	77.5	3.11
3.0	0.11	28.0	1.15	53.0	2.16	78.0	3.13
3.5	0.13	28.5	1.17	53.5	2.18	78.5	3.15
4.0	0.15	29.0	1.19	54.0	2.20	79.0	3.17
4.5	0.17	29.5	1.21	54.5	2.22	79.5	3.18
5.0	0.19	30.0	1.23	55.0	2.24	80.0	3.20
5.5	0.21	30.5	1.25	55.5	2.26	80.5	3.22
6.0	0.23	31.0	1.28	56.0	2.28	81.0	3.24
6.5	0.26	31.5	1.30	56.5	2.30	81.5	3.26
7.0	0.28	32.0	1.32	57.0	2.32	82.0	3.28
7.5	0.30	32.5	1.34	57.5	2.34	82.5	3.30
8.0	0.32	33.0	1.36	58.0	2.36	83.0	3.32
8.5	0.34	33.5	1.38	58.5	2.37	83.5	3.34
9.0	0.36	34.0	1.40	59.0	2.39	84.0	3.35
9.5	0.38	34.5	1.42	59.5	2.41	84.5	3.37
10.0	0.40	35.0	1.44	60.0	2.43	85.0	3.39
10.5	0.42	35.5	1.46	60.5	2.45	85.5	3.41
11.0	0.45	36.0	1.48	61.0	2.47	86.0	3.43
11.5	0.47	36.5	1.50	61.5	2.49	86.5	3.45
12.0	0.49	37.0	1.52	62.0	2.51	87.0	3.47
12.5	0.51	37.5	1.54	62.5	2.53	87.5	3.49
13.0	0.53	38.0	1.56	63.0	2.55	88.0	3.50
13.5	0.55	38.5	1.58	63.5	2.57	88.5	3.52
14.0	0.57	39.0	1.60	64.0	2.59	89.0	3.54
14.5	0.59	39.5	1.62	64.5	2.61	89.5	3.56
15.0	0.61	40.0	1.64	65.0	2.63	90.0	3.58
15.5	0.63	40.5	1.66	65.5	2.65	90.5	3.60
16.0	0.66	41.0	1.68	66.0	2.67	91.0	3.62
16.5	0.68	41.5	1.70	66.5	2.69	91.5	3.63
17.0	0.70	42.0	1.72	67.0	2.71	92.0	3.65
17.5	0.72	42.5	1.74	67.5	2.72	92.5	3.67
18.0	0.74	43.0	1.76	68.0	2.74	93.0	3.69
18.5	0.76	43.5	1.78	68.5	2.76	93.5	3.71
19.0	0.78	44.0	1.80	69.0	2.78	94.0	3.73
19.5	0.80	44.5	1.82	69.5	2.80	94.5	3.75
20.0	0.82	45.0	1.84	70.0	2.82	95.0	3.76
20.5	0.84	45.5	1.86	70.5	2.84	95.5	3.78
21.0	0.86	46.0	1.88	71.0	2.86	96.0	3.80
21.5	0.88	46.5	1.90	71.5	2.88	96.5	3.82
22.0	0.91	47.0	1.92	72.0	2.90	97.0	3.84
22.5	0.93	47.5	1.94	72.5	2.92	97.5	3.86
23.0	0.95	48.0	1.96	73.0	2.94	98.0	3.88
23.5	0.97	48.5	1.98	73.5	2.96	98.5	3.89
24.0	0.99	49.0	2.00	74.0	2.97	99.0	3.91
24.5	1.01	49.5	2.02	74.5	2.99	99.5	3.93
25.0	1.03	50.0	2.04	75.0	3.01	100.0	3.95

Temperature, °F

78.8

				Temperature, °C		26.0		
atü	-	kg	atü	-	kg	atü	-	kg
100.5		3.97	125.5		4.87	150.5		5.73
101.0		3.99	126.0		4.89	151.0		5.75
101.5		4.00	126.5		4.90	151.5		5.77
102.0		4.02	127.0		4.92	152.0		5.78
102.5		4.04	127.5		4.94	152.5		5.80
103.0		4.06	128.0		4.96	153.0		5.82
103.5		4.08	128.5		4.97	153.5		5.84
104.0		4.10	129.0		4.99	154.0		5.85
104.5		4.11	129.5		5.01	154.5		5.87
105.0		4.13	130.0		5.03	155.0		5.89
105.5		4.15	130.5		5.04	155.5		5.90
106.0		4.17	131.0		5.06	156.0		5.92
106.5		4.19	131.5		5.08	156.5		5.94
107.0		4.20	132.0		5.10	157.0		5.95
107.5		4.22	132.5		5.11	157.5		5.97
108.0		4.24	133.0		5.13	158.0		5.99
108.5		4.26	133.5		5.15	158.5		6.00
109.0		4.28	134.0		5.17	159.0		6.02
109.5		4.30	134.5		5.18	159.5		6.04
110.0		4.31	135.0		5.20	160.0		6.05
110.5		4.33	135.5		5.22	160.5		6.07
111.0		4.35	136.0		5.24	161.0		6.09
111.5		4.37	136.5		5.25	161.5		6.10
112.0		4.39	137.0		5.27	162.0		6.12
112.5		4.40	137.5		5.29	162.5		6.14
113.0		4.42	138.0		5.30	163.0		6.15
113.5		4.44	138.5		5.32	163.5		6.17
114.0		4.46	139.0		5.34	164.0		6.19
114.5		4.48	139.5		5.36	164.5		6.20
115.0		4.49	140.0		5.37	165.0		6.22
115.5		4.51	140.5		5.39	165.5		6.24
116.0		4.53	141.0		5.41	166.0		6.25
116.5		4.55	141.5		5.43	166.5		6.27
117.0		4.57	142.0		5.44	167.0		6.29
117.5		4.58	142.5		5.46	167.5		6.30
118.0		4.60	143.0		5.48	168.0		6.32
118.5		4.62	143.5		5.49	168.5		6.34
119.0		4.64	144.0		5.51	169.0		6.35
119.5		4.65	144.5		5.53	169.5		6.37
120.0		4.67	145.0		5.55	170.0		6.39
120.5		4.69	145.5		5.56	170.5		6.40
121.0		4.71	146.0		5.58	171.0		6.42
121.5		4.73	146.5		5.60	171.5		6.44
122.0		4.74	147.0		5.61	172.0		6.45
122.5		4.76	147.5		5.63	172.5		6.47
123.0		4.78	148.0		5.65	173.0		6.48
123.5		4.80	148.5		5.67	173.5		6.50
124.0		4.81	149.0		5.68	174.0		6.52
124.5		4.83	149.5		5.70	174.5		6.53
125.0		4.85	150.0		5.72	175.0		6.55
						175.5		6.57
						176.0		6.58
						176.5		6.60
						177.0		6.62
						177.5		6.63
						178.0		6.65
						178.5		6.66
						179.0		6.68
						179.5		6.70
						180.0		6.71
						180.5		6.73
						181.0		6.75
						181.5		6.76
						182.0		6.78
						182.5		6.79
						183.0		6.81
						183.5		6.83
						184.0		6.84
						184.5		6.86
						185.0		6.87
						185.5		6.89
						186.0		6.91
						186.5		6.92
						187.0		6.94
						187.5		6.96
						188.0		6.97
						188.5		6.99
						189.0		7.00
						189.5		7.02
						190.0		7.04
						190.5		7.05
						191.0		7.07
						191.5		7.08
						192.0		7.10
						192.5		7.12
						193.0		7.13
						193.5		7.15
						194.0		7.16
						194.5		7.18
						195.0		7.19
						195.5		7.21
						196.0		7.23
						196.5		7.24
						197.0		7.26
						197.5		7.27
						198.0		7.29
						198.5		7.31
						199.0		7.32
						199.5		7.34
						200.0		7.35

				Temperature, °C				27.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.05		50.5		2.05		75.5		3.02	
1.0		0.02		26.0		1.07		51.0		2.07		76.0		3.04	
1.5		0.04		26.5		1.09		51.5		2.09		76.5		3.06	
2.0		0.06		27.0		1.11		52.0		2.11		77.0		3.08	
2.5		0.09		27.5		1.13		52.5		2.13		77.5		3.10	
3.0		0.11		28.0		1.15		53.0		2.15		78.0		3.11	
3.5		0.13		28.5		1.17		53.5		2.17		78.5		3.13	
4.0		0.15		29.0		1.19		54.0		2.19		79.0		3.15	
4.5		0.17		29.5		1.21		54.5		2.21		79.5		3.17	
5.0		0.19		30.0		1.23		55.0		2.23		80.0		3.19	
5.5		0.21		30.5		1.25		55.5		2.25		80.5		3.21	
6.0		0.23		31.0		1.27		56.0		2.27		81.0		3.23	
6.5		0.25		31.5		1.29		56.5		2.29		81.5		3.25	
7.0		0.28		32.0		1.31		57.0		2.31		82.0		3.27	
7.5		0.30		32.5		1.33		57.5		2.33		82.5		3.28	
8.0		0.32		33.0		1.35		58.0		2.35		83.0		3.30	
8.5		0.34		33.5		1.37		58.5		2.37		83.5		3.32	
9.0		0.36		34.0		1.39		59.0		2.39		84.0		3.34	
9.5		0.38		34.5		1.41		59.5		2.40		84.5		3.36	
10.0		0.40		35.0		1.43		60.0		2.42		85.0		3.38	
10.5		0.42		35.5		1.45		60.5		2.44		85.5		3.40	
11.0		0.44		36.0		1.47		61.0		2.46		86.0		3.42	
11.5		0.46		36.5		1.49		61.5		2.48		86.5		3.43	
12.0		0.49		37.0		1.51		62.0		2.50		87.0		3.45	
12.5		0.51		37.5		1.53		62.5		2.52		87.5		3.47	
13.0		0.53		38.0		1.55		63.0		2.54		88.0		3.49	
13.5		0.55		38.5		1.57		63.5		2.56		88.5		3.51	
14.0		0.57		39.0		1.59		64.0		2.58		89.0		3.53	
14.5		0.59		39.5		1.61		64.5		2.60		89.5		3.55	
15.0		0.61		40.0		1.63		65.0		2.62		90.0		3.57	
15.5		0.63		40.5		1.65		65.5		2.64		90.5		3.58	
16.0		0.65		41.0		1.67		66.0		2.66		91.0		3.60	
16.5		0.67		41.5		1.69		66.5		2.68		91.5		3.62	
17.0		0.69		42.0		1.71		67.0		2.70		92.0		3.64	
17.5		0.72		42.5		1.73		67.5		2.71		92.5		3.66	
18.0		0.74		43.0		1.75		68.0		2.73		93.0		3.68	
18.5		0.76		43.5		1.77		68.5		2.75		93.5		3.69	
19.0		0.78		44.0		1.79		69.0		2.77		94.0		3.71	
19.5		0.80		44.5		1.81		69.5		2.79		94.5		3.73	
20.0		0.82		45.0		1.83		70.0		2.81		95.0		3.75	
20.5		0.84		45.5		1.85		70.5		2.83		95.5		3.77	
21.0		0.86		46.0		1.87		71.0		2.85		96.0		3.79	
21.5		0.88		46.5		1.89		71.5		2.87		96.5		3.81	
22.0		0.90		47.0		1.91		72.0		2.89		97.0		3.82	
22.5		0.92		47.5		1.93		72.5		2.91		97.5		3.84	
23.0		0.94		48.0		1.95		73.0		2.92		98.0		3.86	
23.5		0.96		48.5		1.97		73.5		2.94		98.5		3.88	
24.0		0.98		49.0		1.99		74.0		2.96		99.0		3.90	
24.5		1.00		49.5		2.01		74.5		2.98		99.5		3.92	
25.0		1.03		50.0		2.03		75.0		3.00		100.0		3.93	

Temperature, °F

80.6

				Temperature, °C				27.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.95		125.5		4.85		150.5		5.71		175.5		6.54	
101.0		3.97		126.0		4.87		151.0		5.73		176.0		6.56	
101.5		3.99		126.5		4.88		151.5		5.75		176.5		6.57	
102.0		4.01		127.0		4.90		152.0		5.76		177.0		6.59	
102.5		4.03		127.5		4.92		152.5		5.78		177.5		6.61	
103.0		4.04		128.0		4.94		153.0		5.80		178.0		6.62	
103.5		4.06		128.5		4.95		153.5		5.81		178.5		6.64	
104.0		4.08		129.0		4.97		154.0		5.83		179.0		6.66	
104.5		4.10		129.5		4.99		154.5		5.85		179.5		6.67	
105.0		4.12		130.0		5.01		155.0		5.86		180.0		6.69	
105.5		4.13		130.5		5.02		155.5		5.88		180.5		6.70	
106.0		4.15		131.0		5.04		156.0		5.90		181.0		6.72	
106.5		4.17		131.5		5.06		156.5		5.91		181.5		6.74	
107.0		4.19		132.0		5.08		157.0		5.93		182.0		6.75	
107.5		4.21		132.5		5.09		157.5		5.95		182.5		6.77	
108.0		4.22		133.0		5.11		158.0		5.96		183.0		6.78	
108.5		4.24		133.5		5.13		158.5		5.98		183.5		6.80	
109.0		4.26		134.0		5.15		159.0		6.00		184.0		6.82	
109.5		4.28		134.5		5.16		159.5		6.01		184.5		6.83	
110.0		4.30		135.0		5.18		160.0		6.03		185.0		6.85	
110.5		4.31		135.5		5.20		160.5		6.05		185.5		6.86	
111.0		4.33		136.0		5.22		161.0		6.06		186.0		6.88	
111.5		4.35		136.5		5.23		161.5		6.08		186.5		6.90	
112.0		4.37		137.0		5.25		162.0		6.10		187.0		6.91	
112.5		4.39		137.5		5.27		162.5		6.11		187.5		6.93	
113.0		4.40		138.0		5.28		163.0		6.13		188.0		6.94	
113.5		4.42		138.5		5.30		163.5		6.15		188.5		6.96	
114.0		4.44		139.0		5.32		164.0		6.16		189.0		6.98	
114.5		4.46		139.5		5.34		164.5		6.18		189.5		6.99	
115.0		4.48		140.0		5.35		165.0		6.20		190.0		7.01	
115.5		4.49		140.5		5.37		165.5		6.21		190.5		7.02	
116.0		4.51		141.0		5.39		166.0		6.23		191.0		7.04	
116.5		4.53		141.5		5.40		166.5		6.25		191.5		7.06	
117.0		4.55		142.0		5.42		167.0		6.26		192.0		7.07	
117.5		4.57		142.5		5.44		167.5		6.28		192.5		7.09	
118.0		4.58		143.0		5.46		168.0		6.30		193.0		7.10	
118.5		4.60		143.5		5.47		168.5		6.31		193.5		7.12	
119.0		4.62		144.0		5.49		169.0		6.33		194.0		7.14	
119.5		4.64		144.5		5.51		169.5		6.35		194.5		7.15	
120.0		4.65		145.0		5.52		170.0		6.36		195.0		7.17	
120.5		4.67		145.5		5.54		170.5		6.38		195.5		7.18	
121.0		4.69		146.0		5.56		171.0		6.39		196.0		7.20	
121.5		4.71		146.5		5.58		171.5		6.41		196.5		7.21	
122.0		4.73		147.0		5.59		172.0		6.43		197.0		7.23	
122.5		4.74		147.5		5.61		172.5		6.44		197.5		7.25	
123.0		4.76		148.0		5.63		173.0		6.46		198.0		7.26	
123.5		4.78		148.5		5.64		173.5		6.48		198.5		7.28	
124.0		4.80		149.0		5.66		174.0		6.49		199.0		7.29	
124.5		4.81		149.5		5.68		174.5		6.51		199.5		7.31	
125.0		4.83		150.0		5.69		175.0		6.53		200.0		7.32	

Temperature, °F

80.6

28.0

Temperature, °C								
atü	-	kg	atü	-	kg	atü	-	kg
0.5		0.00	25.5		1.04	50.5		2.04
1.0		0.02	26.0		1.06	51.0		2.06
1.5		0.04	26.5		1.08	51.5		2.08
2.0		0.06	27.0		1.10	52.0		2.10
2.5		0.08	27.5		1.12	52.5		2.12
3.0		0.11	28.0		1.14	53.0		2.14
3.5		0.13	28.5		1.16	53.5		2.16
4.0		0.15	29.0		1.18	54.0		2.18
4.5		0.17	29.5		1.20	54.5		2.20
5.0		0.19	30.0		1.22	55.0		2.22
5.5		0.21	30.5		1.25	55.5		2.24
6.0		0.23	31.0		1.27	56.0		2.26
6.5		0.25	31.5		1.29	56.5		2.28
7.0		0.27	32.0		1.31	57.0		2.30
7.5		0.30	32.5		1.33	57.5		2.32
8.0		0.32	33.0		1.35	58.0		2.34
8.5		0.34	33.5		1.37	58.5		2.36
9.0		0.36	34.0		1.39	59.0		2.38
9.5		0.38	34.5		1.41	59.5		2.40
10.0		0.40	35.0		1.43	60.0		2.41
10.5		0.42	35.5		1.45	60.5		2.43
11.0		0.44	36.0		1.47	61.0		2.45
11.5		0.46	36.5		1.49	61.5		2.47
12.0		0.48	37.0		1.51	62.0		2.49
12.5		0.50	37.5		1.53	62.5		2.51
13.0		0.53	38.0		1.55	63.0		2.53
13.5		0.55	38.5		1.57	63.5		2.55
14.0		0.57	39.0		1.59	64.0		2.57
14.5		0.59	39.5		1.61	64.5		2.59
15.0		0.61	40.0		1.63	65.0		2.61
15.5		0.63	40.5		1.65	65.5		2.63
16.0		0.65	41.0		1.67	66.0		2.65
16.5		0.67	41.5		1.69	66.5		2.67
17.0		0.69	42.0		1.71	67.0		2.68
17.5		0.71	42.5		1.73	67.5		2.70
18.0		0.73	43.0		1.75	68.0		2.72
18.5		0.75	43.5		1.77	68.5		2.74
19.0		0.77	44.0		1.79	69.0		2.76
19.5		0.80	44.5		1.81	69.5		2.78
20.0		0.82	45.0		1.83	70.0		2.80
20.5		0.84	45.5		1.85	70.5		2.82
21.0		0.86	46.0		1.87	71.0		2.84
21.5		0.88	46.5		1.89	71.5		2.86
22.0		0.90	47.0		1.91	72.0		2.88
22.5		0.92	47.5		1.93	72.5		2.89
23.0		0.94	48.0		1.95	73.0		2.91
23.5		0.96	48.5		1.97	73.5		2.93
24.0		0.98	49.0		1.98	74.0		2.95
24.5		1.00	49.5		2.00	74.5		2.97
25.0		1.02	50.0		2.02	75.0		2.99
								100.0
								3.92

Temperature, °F

82.4

				Temperature, °C											
				28.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.94		125.5		4.83		150.5		5.69		175.5		6.52	
101.0		3.95		126.0		4.85		151.0		5.71		176.0		6.53	
101.5		3.97		126.5		4.87		151.5		5.72		176.5		6.55	
102.0		3.99		127.0		4.88		152.0		5.74		177.0		6.57	
102.5		4.01		127.5		4.90		152.5		5.76		177.5		6.58	
103.0		4.03		128.0		4.92		153.0		5.77		178.0		6.60	
103.5		4.05		128.5		4.93		153.5		5.79		178.5		6.61	
104.0		4.06		129.0		4.95		154.0		5.81		179.0		6.63	
104.5		4.08		129.5		4.97		154.5		5.82		179.5		6.65	
105.0		4.10		130.0		4.99		155.0		5.84		180.0		6.66	
105.5		4.12		130.5		5.00		155.5		5.86		180.5		6.68	
106.0		4.14		131.0		5.02		156.0		5.87		181.0		6.69	
106.5		4.15		131.5		5.04		156.5		5.89		181.5		6.71	
107.0		4.17		132.0		5.06		157.0		5.91		182.0		6.73	
107.5		4.19		132.5		5.07		157.5		5.92		182.5		6.74	
108.0		4.21		133.0		5.09		158.0		5.94		183.0		6.76	
108.5		4.23		133.5		5.11		158.5		5.96		183.5		6.77	
109.0		4.24		134.0		5.13		159.0		5.97		184.0		6.79	
109.5		4.26		134.5		5.14		159.5		5.99		184.5		6.81	
110.0		4.28		135.0		5.16		160.0		6.01		185.0		6.82	
110.5		4.30		135.5		5.18		160.5		6.02		185.5		6.84	
111.0		4.32		136.0		5.20		161.0		6.04		186.0		6.85	
111.5		4.33		136.5		5.21		161.5		6.06		186.5		6.87	
112.0		4.35		137.0		5.23		162.0		6.07		187.0		6.89	
112.5		4.37		137.5		5.25		162.5		6.09		187.5		6.90	
113.0		4.39		138.0		5.26		163.0		6.11		188.0		6.92	
113.5		4.41		138.5		5.28		163.5		6.12		188.5		6.93	
114.0		4.42		139.0		5.30		164.0		6.14		189.0		6.95	
114.5		4.44		139.5		5.32		164.5		6.16		189.5		6.97	
115.0		4.46		140.0		5.33		165.0		6.17		190.0		6.98	
115.5		4.48		140.5		5.35		165.5		6.19		190.5		7.00	
116.0		4.49		141.0		5.37		166.0		6.21		191.0		7.01	
116.5		4.51		141.5		5.38		166.5		6.22		191.5		7.03	
117.0		4.53		142.0		5.40		167.0		6.24		192.0		7.05	
117.5		4.55		142.5		5.42		167.5		6.26		192.5		7.06	
118.0		4.57		143.0		5.44		168.0		6.27		193.0		7.08	
118.5		4.58		143.5		5.45		168.5		6.29		193.5		7.09	
119.0		4.60		144.0		5.47		169.0		6.30		194.0		7.11	
119.5		4.62		144.5		5.49		169.5		6.32		194.5		7.12	
120.0		4.64		145.0		5.50		170.0		6.34		195.0		7.14	
120.5		4.65		145.5		5.52		170.5		6.35		195.5		7.16	
121.0		4.67		146.0		5.54		171.0		6.37		196.0		7.17	
121.5		4.69		146.5		5.55		171.5		6.39		196.5		7.19	
122.0		4.71		147.0		5.57		172.0		6.40		197.0		7.20	
122.5		4.72		147.5		5.59		172.5		6.42		197.5		7.22	
123.0		4.74		148.0		5.61		173.0		6.44		198.0		7.23	
123.5		4.76		148.5		5.62		173.5		6.45		198.5		7.25	
124.0		4.78		149.0		5.64		174.0		6.47		199.0		7.27	
124.5		4.79		149.5		5.66		174.5		6.48		199.5		7.28	
125.0		4.81		150.0		5.67		175.0		6.50		200.0		7.30	

				Temperature, °C											
				29.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.04		50.5		2.04		75.5		3.00	
1.0		0.02		26.0		1.06		51.0		2.06		76.0		3.02	
1.5		0.04		26.5		1.08		51.5		2.07		76.5		3.03	
2.0		0.06		27.0		1.10		52.0		2.09		77.0		3.05	
2.5		0.08		27.5		1.12		52.5		2.11		77.5		3.07	
3.0		0.11		28.0		1.14		53.0		2.13		78.0		3.09	
3.5		0.13		28.5		1.16		53.5		2.15		78.5		3.11	
4.0		0.15		29.0		1.18		54.0		2.17		79.0		3.13	
4.5		0.17		29.5		1.20		54.5		2.19		79.5		3.15	
5.0		0.19		30.0		1.22		55.0		2.21		80.0		3.17	
5.5		0.21		30.5		1.24		55.5		2.23		80.5		3.18	
6.0		0.23		31.0		1.26		56.0		2.25		81.0		3.20	
6.5		0.25		31.5		1.28		56.5		2.27		81.5		3.22	
7.0		0.27		32.0		1.30		57.0		2.29		82.0		3.24	
7.5		0.29		32.5		1.32		57.5		2.31		82.5		3.26	
8.0		0.32		33.0		1.34		58.0		2.33		83.0		3.28	
8.5		0.34		33.5		1.36		58.5		2.35		83.5		3.30	
9.0		0.36		34.0		1.38		59.0		2.37		84.0		3.32	
9.5		0.38		34.5		1.40		59.5		2.39		84.5		3.33	
10.0		0.40		35.0		1.42		60.0		2.41		85.0		3.35	
10.5		0.42		35.5		1.44		60.5		2.42		85.5		3.37	
11.0		0.44		36.0		1.46		61.0		2.44		86.0		3.39	
11.5		0.46		36.5		1.48		61.5		2.46		86.5		3.41	
12.0		0.48		37.0		1.50		62.0		2.48		87.0		3.43	
12.5		0.50		37.5		1.52		62.5		2.50		87.5		3.44	
13.0		0.52		38.0		1.54		63.0		2.52		88.0		3.46	
13.5		0.54		38.5		1.56		63.5		2.54		88.5		3.48	
14.0		0.57		39.0		1.58		64.0		2.56		89.0		3.50	
14.5		0.59		39.5		1.60		64.5		2.58		89.5		3.52	
15.0		0.61		40.0		1.62		65.0		2.60		90.0		3.54	
15.5		0.63		40.5		1.64		65.5		2.62		90.5		3.56	
16.0		0.65		41.0		1.66		66.0		2.64		91.0		3.57	
16.5		0.67		41.5		1.68		66.5		2.65		91.5		3.59	
17.0		0.69		42.0		1.70		67.0		2.67		92.0		3.61	
17.5		0.71		42.5		1.72		67.5		2.69		92.5		3.63	
18.0		0.73		43.0		1.74		68.0		2.71		93.0		3.65	
18.5		0.75		43.5		1.76		68.5		2.73		93.5		3.67	
19.0		0.77		44.0		1.78		69.0		2.75		94.0		3.68	
19.5		0.79		44.5		1.80		69.5		2.77		94.5		3.70	
20.0		0.81		45.0		1.82		70.0		2.79		95.0		3.72	
20.5		0.83		45.5		1.84		70.5		2.81		95.5		3.74	
21.0		0.85		46.0		1.86		71.0		2.83		96.0		3.76	
21.5		0.87		46.5		1.88		71.5		2.85		96.5		3.78	
22.0		0.89		47.0		1.90		72.0		2.86		97.0		3.79	
22.5		0.91		47.5		1.92		72.5		2.88		97.5		3.81	
23.0		0.94		48.0		1.94		73.0		2.90		98.0		3.83	
23.5		0.96		48.5		1.96		73.5		2.92		98.5		3.85	
24.0		0.98		49.0		1.98		74.0		2.94		99.0		3.87	
24.5		1.00		49.5		2.00		74.5		2.96		99.5		3.89	
25.0		1.02		50.0		2.02		75.0		2.98		100.0		3.90	

				Temperature, °C											
				29.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.92		125.5		4.81		150.5		5.67		175.5		6.49	
101.0		3.94		126.0		4.83		151.0		5.68		176.0		6.51	
101.5		3.96		126.5		4.85		151.5		5.70		176.5		6.52	
102.0		3.98		127.0		4.86		152.0		5.72		177.0		6.54	
102.5		3.99		127.5		4.88		152.5		5.73		177.5		6.56	
103.0		4.01		128.0		4.90		153.0		5.75		178.0		6.57	
103.5		4.03		128.5		4.92		153.5		5.77		178.5		6.59	
104.0		4.05		129.0		4.93		154.0		5.78		179.0		6.60	
104.5		4.07		129.5		4.95		154.5		5.80		179.5		6.62	
105.0		4.08		130.0		4.97		155.0		5.82		180.0		6.64	
105.5		4.10		130.5		4.99		155.5		5.83		180.5		6.65	
106.0		4.12		131.0		5.00		156.0		5.85		181.0		6.67	
106.5		4.14		131.5		5.02		156.5		5.87		181.5		6.68	
107.0		4.16		132.0		5.04		157.0		5.88		182.0		6.70	
107.5		4.17		132.5		5.05		157.5		5.90		182.5		6.72	
108.0		4.19		133.0		5.07		158.0		5.92		183.0		6.73	
108.5		4.21		133.5		5.09		158.5		5.93		183.5		6.75	
109.0		4.23		134.0		5.11		159.0		5.95		184.0		6.76	
109.5		4.25		134.5		5.12		159.5		5.97		184.5		6.78	
110.0		4.26		135.0		5.14		160.0		5.98		185.0		6.80	
110.5		4.28		135.5		5.16		160.5		6.00		185.5		6.81	
111.0		4.30		136.0		5.17		161.0		6.02		186.0		6.83	
111.5		4.32		136.5		5.19		161.5		6.03		186.5		6.84	
112.0		4.33		137.0		5.21		162.0		6.05		187.0		6.86	
112.5		4.35		137.5		5.23		162.5		6.07		187.5		6.88	
113.0		4.37		138.0		5.24		163.0		6.08		188.0		6.89	
113.5		4.39		138.5		5.26		163.5		6.10		188.5		6.91	
114.0		4.41		139.0		5.28		164.0		6.12		189.0		6.92	
114.5		4.42		139.5		5.29		164.5		6.13		189.5		6.94	
115.0		4.44		140.0		5.31		165.0		6.15		190.0		6.96	
115.5		4.46		140.5		5.33		165.5		6.17		190.5		6.97	
116.0		4.48		141.0		5.35		166.0		6.18		191.0		6.99	
116.5		4.49		141.5		5.36		166.5		6.20		191.5		7.00	
117.0		4.51		142.0		5.38		167.0		6.21		192.0		7.02	
117.5		4.53		142.5		5.40		167.5		6.23		192.5		7.03	
118.0		4.55		143.0		5.41		168.0		6.25		193.0		7.05	
118.5		4.57		143.5		5.43		168.5		6.26		193.5		7.07	
119.0		4.58		144.0		5.45		169.0		6.28		194.0		7.08	
119.5		4.60		144.5		5.46		169.5		6.30		194.5		7.10	
120.0		4.62		145.0		5.48		170.0		6.31		195.0		7.11	
120.5		4.64		145.5		5.50		170.5		6.33		195.5		7.13	
121.0		4.65		146.0		5.52		171.0		6.35		196.0		7.14	
121.5		4.67		146.5		5.53		171.5		6.36		196.5		7.16	
122.0		4.69		147.0		5.55		172.0		6.38		197.0		7.18	
122.5		4.71		147.5		5.57		172.5		6.39		197.5		7.19	
123.0		4.72		148.0		5.58		173.0		6.41		198.0		7.21	
123.5		4.74		148.5		5.60		173.5		6.43		198.5		7.22	
124.0		4.76		149.0		5.62		174.0		6.44		199.0		7.24	
124.5		4.78		149.5		5.63		174.5		6.46		199.5		7.25	
125.0		4.79		150.0		5.65		175.0		6.48		200.0		7.27	

Temperature, °F

84.2

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.03	50.5	2.03	75.5	2.98
1.0	0.02	26.0	1.05	51.0	2.05	76.0	3.00
1.5	0.04	26.5	1.07	51.5	2.07	76.5	3.02
2.0	0.06	27.0	1.09	52.0	2.09	77.0	3.04
2.5	0.08	27.5	1.11	52.5	2.11	77.5	3.06
3.0	0.11	28.0	1.13	53.0	2.13	78.0	3.08
3.5	0.13	28.5	1.15	53.5	2.14	78.5	3.10
4.0	0.15	29.0	1.17	54.0	2.16	79.0	3.12
4.5	0.17	29.5	1.19	54.5	2.18	79.5	3.13
5.0	0.19	30.0	1.22	55.0	2.20	80.0	3.15
5.5	0.21	30.5	1.24	55.5	2.22	80.5	3.17
6.0	0.23	31.0	1.26	56.0	2.24	81.0	3.19
6.5	0.25	31.5	1.28	56.5	2.26	81.5	3.21
7.0	0.27	32.0	1.30	57.0	2.28	82.0	3.23
7.5	0.29	32.5	1.32	57.5	2.30	82.5	3.25
8.0	0.31	33.0	1.34	58.0	2.32	83.0	3.26
8.5	0.33	33.5	1.36	58.5	2.34	83.5	3.28
9.0	0.36	34.0	1.38	59.0	2.36	84.0	3.30
9.5	0.38	34.5	1.40	59.5	2.38	84.5	3.32
10.0	0.40	35.0	1.42	60.0	2.40	85.0	3.34
10.5	0.42	35.5	1.44	60.5	2.41	85.5	3.36
11.0	0.44	36.0	1.46	61.0	2.43	86.0	3.38
11.5	0.46	36.5	1.48	61.5	2.45	86.5	3.39
12.0	0.48	37.0	1.50	62.0	2.47	87.0	3.41
12.5	0.50	37.5	1.52	62.5	2.49	87.5	3.43
13.0	0.52	38.0	1.54	63.0	2.51	88.0	3.45
13.5	0.54	38.5	1.56	63.5	2.53	88.5	3.47
14.0	0.56	39.0	1.58	64.0	2.55	89.0	3.49
14.5	0.58	39.5	1.59	64.5	2.57	89.5	3.50
15.0	0.60	40.0	1.61	65.0	2.59	90.0	3.52
15.5	0.62	40.5	1.63	65.5	2.61	90.5	3.54
16.0	0.65	41.0	1.65	66.0	2.63	91.0	3.56
16.5	0.67	41.5	1.67	66.5	2.64	91.5	3.58
17.0	0.69	42.0	1.69	67.0	2.66	92.0	3.60
17.5	0.71	42.5	1.71	67.5	2.68	92.5	3.62
18.0	0.73	43.0	1.73	68.0	2.70	93.0	3.63
18.5	0.75	43.5	1.75	68.5	2.72	93.5	3.65
19.0	0.77	44.0	1.77	69.0	2.74	94.0	3.67
19.5	0.79	44.5	1.79	69.5	2.76	94.5	3.69
20.0	0.81	45.0	1.81	70.0	2.78	95.0	3.71
20.5	0.83	45.5	1.83	70.5	2.80	95.5	3.72
21.0	0.85	46.0	1.85	71.0	2.82	96.0	3.74
21.5	0.87	46.5	1.87	71.5	2.83	96.5	3.76
22.0	0.89	47.0	1.89	72.0	2.85	97.0	3.78
22.5	0.91	47.5	1.91	72.5	2.87	97.5	3.80
23.0	0.93	48.0	1.93	73.0	2.89	98.0	3.82
23.5	0.95	48.5	1.95	73.5	2.91	98.5	3.83
24.0	0.97	49.0	1.97	74.0	2.93	99.0	3.85
24.5	0.99	49.5	1.99	74.5	2.95	99.5	3.87
25.0	1.01	50.0	2.01	75.0	2.97	100.0	3.89

Temperature, °F

86.0

				Temperature, °C				30.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.91		125.5		4.79		150.5		5.65		175.5		6.47	
101.0		3.92		126.0		4.81		151.0		5.66		176.0		6.48	
101.5		3.94		126.5		4.83		151.5		5.68		176.5		6.50	
102.0		3.96		127.0		4.84		152.0		5.70		177.0		6.51	
102.5		3.98		127.5		4.86		152.5		5.71		177.5		6.53	
103.0		4.00		128.0		4.88		153.0		5.73		178.0		6.55	
103.5		4.01		128.5		4.90		153.5		5.75		178.5		6.56	
104.0		4.03		129.0		4.91		154.0		5.76		179.0		6.58	
104.5		4.05		129.5		4.93		154.5		5.78		179.5		6.59	
105.0		4.07		130.0		4.95		155.0		5.80		180.0		6.61	
105.5		4.09		130.5		4.97		155.5		5.81		180.5		6.63	
106.0		4.10		131.0		4.98		156.0		5.83		181.0		6.64	
106.5		4.12		131.5		5.00		156.5		5.85		181.5		6.66	
107.0		4.14		132.0		5.02		157.0		5.86		182.0		6.67	
107.5		4.16		132.5		5.03		157.5		5.88		182.5		6.69	
108.0		4.18		133.0		5.05		158.0		5.89		183.0		6.71	
108.5		4.19		133.5		5.07		158.5		5.91		183.5		6.72	
109.0		4.21		134.0		5.09		159.0		5.93		184.0		6.74	
109.5		4.23		134.5		5.10		159.5		5.94		184.5		6.75	
110.0		4.25		135.0		5.12		160.0		5.96		185.0		6.77	
110.5		4.26		135.5		5.14		160.5		5.98		185.5		6.79	
111.0		4.28		136.0		5.15		161.0		5.99		186.0		6.80	
111.5		4.30		136.5		5.17		161.5		6.01		186.5		6.82	
112.0		4.32		137.0		5.19		162.0		6.03		187.0		6.83	
112.5		4.34		137.5		5.21		162.5		6.04		187.5		6.85	
113.0		4.35		138.0		5.22		163.0		6.06		188.0		6.87	
113.5		4.37		138.5		5.24		163.5		6.08		188.5		6.88	
114.0		4.39		139.0		5.26		164.0		6.09		189.0		6.90	
114.5		4.41		139.5		5.27		164.5		6.11		189.5		6.91	
115.0		4.42		140.0		5.29		165.0		6.13		190.0		6.93	
115.5		4.44		140.5		5.31		165.5		6.14		190.5		6.94	
116.0		4.46		141.0		5.33		166.0		6.16		191.0		6.96	
116.5		4.48		141.5		5.34		166.5		6.17		191.5		6.98	
117.0		4.49		142.0		5.36		167.0		6.19		192.0		6.99	
117.5		4.51		142.5		5.38		167.5		6.21		192.5		7.01	
118.0		4.53		143.0		5.39		168.0		6.22		193.0		7.02	
118.5		4.55		143.5		5.41		168.5		6.24		193.5		7.04	
119.0		4.57		144.0		5.43		169.0		6.26		194.0		7.05	
119.5		4.58		144.5		5.44		169.5		6.27		194.5		7.07	
120.0		4.60		145.0		5.46		170.0		6.29		195.0		7.08	
120.5		4.62		145.5		5.48		170.5		6.30		195.5		7.10	
121.0		4.64		146.0		5.49		171.0		6.32		196.0		7.12	
121.5		4.65		146.5		5.51		171.5		6.34		196.5		7.13	
122.0		4.67		147.0		5.53		172.0		6.35		197.0		7.15	
122.5		4.69		147.5		5.54		172.5		6.37		197.5		7.16	
123.0		4.71		148.0		5.56		173.0		6.39		198.0		7.18	
123.5		4.72		148.5		5.58		173.5		6.40		198.5		7.19	
124.0		4.74		149.0		5.60		174.0		6.42		199.0		7.21	
124.5		4.76		149.5		5.61		174.5		6.43		199.5		7.23	
125.0		4.77		150.0		5.63		175.0		6.45		200.0		7.24	

Temperature, °F

86.0

				Temperature, °C			
				31.0			
atü	-	kg		atü	-	kg	
0.5	0.00			25.5	1.03		
1.0	0.02			26.0	1.05		
1.5	0.04			26.5	1.07		
2.0	0.06			27.0	1.09		
2.5	0.08			27.5	1.11		
3.0	0.10			28.0	1.13		
3.5	0.13			28.5	1.15		
4.0	0.15			29.0	1.17		
4.5	0.17			29.5	1.19		
5.0	0.19			30.0	1.21		
5.5	0.21			30.5	1.23		
6.0	0.23			31.0	1.25		
6.5	0.25			31.5	1.27		
7.0	0.27			32.0	1.29		
7.5	0.29			32.5	1.31		
8.0	0.31			33.0	1.33		
8.5	0.33			33.5	1.35		
9.0	0.35			34.0	1.37		
9.5	0.38			34.5	1.39		
10.0	0.40			35.0	1.41		
10.5	0.42			35.5	1.43		
11.0	0.44			36.0	1.45		
11.5	0.46			36.5	1.47		
12.0	0.48			37.0	1.49		
12.5	0.50			37.5	1.51		
13.0	0.52			38.0	1.53		
13.5	0.54			38.5	1.55		
14.0	0.56			39.0	1.57		
14.5	0.58			39.5	1.59		
15.0	0.60			40.0	1.61		
15.5	0.62			40.5	1.63		
16.0	0.64			41.0	1.65		
16.5	0.66			41.5	1.67		
17.0	0.68			42.0	1.69		
17.5	0.70			42.5	1.71		
18.0	0.72			43.0	1.73		
18.5	0.74			43.5	1.75		
19.0	0.77			44.0	1.77		
19.5	0.79			44.5	1.79		
20.0	0.81			45.0	1.81		
20.5	0.83			45.5	1.82		
21.0	0.85			46.0	1.84		
21.5	0.87			46.5	1.86		
22.0	0.89			47.0	1.88		
22.5	0.91			47.5	1.90		
23.0	0.93			48.0	1.92		
23.5	0.95			48.5	1.94		
24.0	0.97			49.0	1.96		
24.5	0.99			49.5	1.98		
25.0	1.01			50.0	2.00		
				50.5	2.02		
				51.0	2.04		
				51.5	2.06		
				52.0	2.08		
				52.5	2.10		
				53.0	2.12		
				53.5	2.14		
				54.0	2.16		
				54.5	2.17		
				55.0	2.19		
				55.5	2.21		
				56.0	2.23		
				56.5	2.25		
				57.0	2.27		
				57.5	2.29		
				58.0	2.31		
				58.5	2.33		
				59.0	2.35		
				59.5	2.37		
				60.0	2.39		
				60.5	2.41		
				61.0	2.42		
				61.5	2.44		
				62.0	2.46		
				62.5	2.48		
				63.0	2.50		
				63.5	2.52		
				64.0	2.54		
				64.5	2.56		
				65.0	2.58		
				65.5	2.60		
				66.0	2.62		
				66.5	2.63		
				67.0	2.65		
				67.5	2.67		
				68.0	2.69		
				68.5	2.71		
				69.0	2.73		
				69.5	2.75		
				70.0	2.77		
				70.5	2.79		
				71.0	2.80		
				71.5	2.82		
				72.0	2.84		
				72.5	2.86		
				73.0	2.88		
				73.5	2.90		
				74.0	2.92		
				74.5	2.94		
				75.0	2.95		
				75.5	2.97		
				76.0	2.99		
				76.5	3.01		
				77.0	3.03		
				77.5	3.05		
				78.0	3.07		
				78.5	3.08		
				79.0	3.10		
				79.5	3.12		
				80.0	3.14		
				80.5	3.16		
				81.0	3.18		
				81.5	3.20		
				82.0	3.21		
				82.5	3.23		
				83.0	3.25		
				83.5	3.27		
				84.0	3.29		
				84.5	3.31		
				85.0	3.33		
				85.5	3.34		
				86.0	3.36		
				86.5	3.38		
				87.0	3.40		
				87.5	3.42		
				88.0	3.44		
				88.5	3.45		
				89.0	3.47		
				89.5	3.49		
				90.0	3.51		
				90.5	3.53		
				91.0	3.55		
				91.5	3.56		
				92.0	3.58		
				92.5	3.60		
				93.0	3.62		
				93.5	3.64		
				94.0	3.66		
				94.5	3.67		
				95.0	3.69		
				95.5	3.71		
				96.0	3.73		
				96.5	3.75		
				97.0	3.76		
				97.5	3.78		
				98.0	3.80		
				98.5	3.82		
				99.0	3.84		
				99.5	3.85		
				100.0	3.87		

Temperature, °F

87.8

				Temperature, °C				31.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.89		125.5		4.77		150.5		5.62		175.5		6.44	
101.0		3.91		126.0		4.79		151.0		5.64		176.0		6.46	
101.5		3.93		126.5		4.81		151.5		5.66		176.5		6.47	
102.0		3.94		127.0		4.83		152.0		5.67		177.0		6.49	
102.5		3.96		127.5		4.84		152.5		5.69		177.5		6.51	
103.0		3.98		128.0		4.86		153.0		5.71		178.0		6.52	
103.5		4.00		128.5		4.88		153.5		5.72		178.5		6.54	
104.0		4.02		129.0		4.89		154.0		5.74		179.0		6.55	
104.5		4.03		129.5		4.91		154.5		5.76		179.5		6.57	
105.0		4.05		130.0		4.93		155.0		5.77		180.0		6.58	
105.5		4.07		130.5		4.95		155.5		5.79		180.5		6.60	
106.0		4.09		131.0		4.96		156.0		5.81		181.0		6.62	
106.5		4.11		131.5		4.98		156.5		5.82		181.5		6.63	
107.0		4.12		132.0		5.00		157.0		5.84		182.0		6.65	
107.5		4.14		132.5		5.01		157.5		5.86		182.5		6.66	
108.0		4.16		133.0		5.03		158.0		5.87		183.0		6.68	
108.5		4.18		133.5		5.05		158.5		5.89		183.5		6.70	
109.0		4.19		134.0		5.07		159.0		5.90		184.0		6.71	
109.5		4.21		134.5		5.08		159.5		5.92		184.5		6.73	
110.0		4.23		135.0		5.10		160.0		5.94		185.0		6.74	
110.5		4.25		135.5		5.12		160.5		5.95		185.5		6.76	
111.0		4.27		136.0		5.13		161.0		5.97		186.0		6.78	
111.5		4.28		136.5		5.15		161.5		5.99		186.5		6.79	
112.0		4.30		137.0		5.17		162.0		6.00		187.0		6.81	
112.5		4.32		137.5		5.19		162.5		6.02		187.5		6.82	
113.0		4.34		138.0		5.20		163.0		6.04		188.0		6.84	
113.5		4.35		138.5		5.22		163.5		6.05		188.5		6.85	
114.0		4.37		139.0		5.24		164.0		6.07		189.0		6.87	
114.5		4.39		139.5		5.25		164.5		6.09		189.5		6.89	
115.0		4.41		140.0		5.27		165.0		6.10		190.0		6.90	
115.5		4.42		140.5		5.29		165.5		6.12		190.5		6.92	
116.0		4.44		141.0		5.30		166.0		6.13		191.0		6.93	
116.5		4.46		141.5		5.32		166.5		6.15		191.5		6.95	
117.0		4.48		142.0		5.34		167.0		6.17		192.0		6.96	
117.5		4.49		142.5		5.35		167.5		6.18		192.5		6.98	
118.0		4.51		143.0		5.37		168.0		6.20		193.0		7.00	
118.5		4.53		143.5		5.39		168.5		6.22		193.5		7.01	
119.0		4.55		144.0		5.41		169.0		6.23		194.0		7.03	
119.5		4.56		144.5		5.42		169.5		6.25		194.5		7.04	
120.0		4.58		145.0		5.44		170.0		6.26		195.0		7.06	
120.5		4.60		145.5		5.46		170.5		6.28		195.5		7.07	
121.0		4.62		146.0		5.47		171.0		6.30		196.0		7.09	
121.5		4.63		146.5		5.49		171.5		6.31		196.5		7.10	
122.0		4.65		147.0		5.51		172.0		6.33		197.0		7.12	
122.5		4.67		147.5		5.52		172.5		6.34		197.5		7.14	
123.0		4.69		148.0		5.54		173.0		6.36		198.0		7.15	
123.5		4.70		148.5		5.56		173.5		6.38		198.5		7.17	
124.0		4.72		149.0		5.57		174.0		6.39		199.0		7.18	
124.5		4.74		149.5		5.59		174.5		6.41		199.5		7.20	
125.0		4.76		150.0		5.61		175.0		6.42		200.0		7.21	

Temperature, °F

87.8

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.03	50.5	2.01	75.5	2.96
1.0	0.02	26.0	1.05	51.0	2.03	76.0	2.98
1.5	0.04	26.5	1.07	51.5	2.05	76.5	3.00
2.0	0.06	27.0	1.09	52.0	2.07	77.0	3.02
2.5	0.08	27.5	1.11	52.5	2.09	77.5	3.04
3.0	0.10	28.0	1.13	53.0	2.11	78.0	3.05
3.5	0.13	28.5	1.15	53.5	2.13	78.5	3.07
4.0	0.15	29.0	1.17	54.0	2.15	79.0	3.09
4.5	0.17	29.5	1.19	54.5	2.17	79.5	3.11
5.0	0.19	30.0	1.21	55.0	2.19	80.0	3.13
5.5	0.21	30.5	1.23	55.5	2.20	80.5	3.15
6.0	0.23	31.0	1.25	56.0	2.22	81.0	3.17
6.5	0.25	31.5	1.27	56.5	2.24	81.5	3.18
7.0	0.27	32.0	1.29	57.0	2.26	82.0	3.20
7.5	0.29	32.5	1.31	57.5	2.28	82.5	3.22
8.0	0.31	33.0	1.32	58.0	2.30	83.0	3.24
8.5	0.33	33.5	1.34	58.5	2.32	83.5	3.26
9.0	0.35	34.0	1.36	59.0	2.34	84.0	3.28
9.5	0.37	34.5	1.38	59.5	2.36	84.5	3.29
10.0	0.39	35.0	1.40	60.0	2.38	85.0	3.31
10.5	0.41	35.5	1.42	60.5	2.40	85.5	3.33
11.0	0.44	36.0	1.44	61.0	2.41	86.0	3.35
11.5	0.46	36.5	1.46	61.5	2.43	86.5	3.37
12.0	0.48	37.0	1.48	62.0	2.45	87.0	3.39
12.5	0.50	37.5	1.50	62.5	2.47	87.5	3.40
13.0	0.52	38.0	1.52	63.0	2.49	88.0	3.42
13.5	0.54	38.5	1.54	63.5	2.51	88.5	3.44
14.0	0.56	39.0	1.56	64.0	2.53	89.0	3.46
14.5	0.58	39.5	1.58	64.5	2.55	89.5	3.48
15.0	0.60	40.0	1.60	65.0	2.57	90.0	3.50
15.5	0.62	40.5	1.62	65.5	2.59	90.5	3.51
16.0	0.64	41.0	1.64	66.0	2.60	91.0	3.53
16.5	0.66	41.5	1.66	66.5	2.62	91.5	3.55
17.0	0.68	42.0	1.68	67.0	2.64	92.0	3.57
17.5	0.70	42.5	1.70	67.5	2.66	92.5	3.59
18.0	0.72	43.0	1.72	68.0	2.68	93.0	3.60
18.5	0.74	43.5	1.74	68.5	2.70	93.5	3.62
19.0	0.76	44.0	1.76	69.0	2.72	94.0	3.64
19.5	0.78	44.5	1.78	69.5	2.74	94.5	3.66
20.0	0.80	45.0	1.80	70.0	2.76	95.0	3.68
20.5	0.82	45.5	1.82	70.5	2.77	95.5	3.69
21.0	0.84	46.0	1.84	71.0	2.79	96.0	3.71
21.5	0.86	46.5	1.86	71.5	2.81	96.5	3.73
22.0	0.88	47.0	1.88	72.0	2.83	97.0	3.75
22.5	0.90	47.5	1.90	72.5	2.85	97.5	3.77
23.0	0.92	48.0	1.91	73.0	2.87	98.0	3.79
23.5	0.94	48.5	1.93	73.5	2.89	98.5	3.80
24.0	0.96	49.0	1.95	74.0	2.91	99.0	3.82
24.5	0.98	49.5	1.97	74.5	2.92	99.5	3.84
25.0	1.00	50.0	1.99	75.0	2.94	100.0	3.86

Temperature, °F

89.6

Temperature, °C

32.0

atü	—	kg	atü	—	kg	atü	—	kg	atü	—	kg
100.5		3.87	125.5		4.75	150.5		5.60	175.5		6.42
101.0		3.89	126.0		4.77	151.0		5.62	176.0		6.43
101.5		3.91	126.5		4.79	151.5		5.63	176.5		6.45
102.0		3.93	127.0		4.81	152.0		5.65	177.0		6.46
102.5		3.95	127.5		4.82	152.5		5.67	177.5		6.48
103.0		3.96	128.0		4.84	153.0		5.68	178.0		6.50
103.5		3.98	128.5		4.86	153.5		5.70	178.5		6.51
104.0		4.00	129.0		4.87	154.0		5.72	179.0		6.53
104.5		4.02	129.5		4.89	154.5		5.73	179.5		6.54
105.0		4.04	130.0		4.91	155.0		5.75	180.0		6.56
105.5		4.05	130.5		4.93	155.5		5.77	180.5		6.57
106.0		4.07	131.0		4.94	156.0		5.78	181.0		6.59
106.5		4.09	131.5		4.96	156.5		5.80	181.5		6.61
107.0		4.11	132.0		4.98	157.0		5.82	182.0		6.62
107.5		4.12	132.5		4.99	157.5		5.83	182.5		6.64
108.0		4.14	133.0		5.01	158.0		5.85	183.0		6.65
108.5		4.16	133.5		5.03	158.5		5.87	183.5		6.67
109.0		4.18	134.0		5.05	159.0		5.88	184.0		6.69
109.5		4.20	134.5		5.06	159.5		5.90	184.5		6.70
110.0		4.21	135.0		5.08	160.0		5.91	185.0		6.72
110.5		4.23	135.5		5.10	160.5		5.93	185.5		6.73
111.0		4.25	136.0		5.11	161.0		5.95	186.0		6.75
111.5		4.27	136.5		5.13	161.5		5.96	186.5		6.76
112.0		4.28	137.0		5.15	162.0		5.98	187.0		6.78
112.5		4.30	137.5		5.16	162.5		6.00	187.5		6.80
113.0		4.32	138.0		5.18	163.0		6.01	188.0		6.81
113.5		4.34	138.5		5.20	163.5		6.03	188.5		6.83
114.0		4.35	139.0		5.22	164.0		6.04	189.0		6.84
114.5		4.37	139.5		5.23	164.5		6.06	189.5		6.86
115.0		4.39	140.0		5.25	165.0		6.08	190.0		6.87
115.5		4.41	140.5		5.27	165.5		6.09	190.5		6.89
116.0		4.42	141.0		5.28	166.0		6.11	191.0		6.91
116.5		4.44	141.5		5.30	166.5		6.13	191.5		6.92
117.0		4.46	142.0		5.32	167.0		6.14	192.0		6.94
117.5		4.48	142.5		5.33	167.5		6.16	192.5		6.95
118.0		4.49	143.0		5.35	168.0		6.17	193.0		6.97
118.5		4.51	143.5		5.37	168.5		6.19	193.5		6.98
119.0		4.53	144.0		5.38	169.0		6.21	194.0		7.00
119.5		4.55	144.5		5.40	169.5		6.22	194.5		7.01
120.0		4.56	145.0		5.42	170.0		6.24	195.0		7.03
120.5		4.58	145.5		5.43	170.5		6.26	195.5		7.05
121.0		4.60	146.0		5.45	171.0		6.27	196.0		7.06
121.5		4.62	146.5		5.47	171.5		6.29	196.5		7.08
122.0		4.63	147.0		5.48	172.0		6.30	197.0		7.09
122.5		4.65	147.5		5.50	172.5		6.32	197.5		7.11
123.0		4.67	148.0		5.52	173.0		6.34	198.0		7.12
123.5		4.69	148.5		5.53	173.5		6.35	198.5		7.14
124.0		4.70	149.0		5.55	174.0		6.37	199.0		7.15
124.5		4.72	149.5		5.57	174.5		6.38	199.5		7.17
125.0		4.74	150.0		5.58	175.0		6.40	200.0		7.18

Temperature, °F

89.6

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
0.5	0.00	25.5	1.02	50.5	2.00	75.5	2.95
1.0	0.02	26.0	1.04	51.0	2.02	76.0	2.97
1.5	0.04	26.5	1.06	51.5	2.04	76.5	2.99
2.0	0.06	27.0	1.08	52.0	2.06	77.0	3.00
2.5	0.08	27.5	1.10	52.5	2.08	77.5	3.02
3.0	0.10	28.0	1.12	53.0	2.10	78.0	3.04
3.5	0.12	28.5	1.14	53.5	2.12	78.5	3.06
4.0	0.15	29.0	1.16	54.0	2.14	79.0	3.08
4.5	0.17	29.5	1.18	54.5	2.16	79.5	3.10
5.0	0.19	30.0	1.20	55.0	2.18	80.0	3.12
5.5	0.21	30.5	1.22	55.5	2.20	80.5	3.13
6.0	0.23	31.0	1.24	56.0	2.21	81.0	3.15
6.5	0.25	31.5	1.26	56.5	2.23	81.5	3.17
7.0	0.27	32.0	1.28	57.0	2.25	82.0	3.19
7.5	0.29	32.5	1.30	57.5	2.27	82.5	3.21
8.0	0.31	33.0	1.32	58.0	2.29	83.0	3.23
8.5	0.33	33.5	1.34	58.5	2.31	83.5	3.24
9.0	0.35	34.0	1.36	59.0	2.33	84.0	3.26
9.5	0.37	34.5	1.38	59.5	2.35	84.5	3.28
10.0	0.39	35.0	1.40	60.0	2.37	85.0	3.30
10.5	0.41	35.5	1.42	60.5	2.39	85.5	3.32
11.0	0.43	36.0	1.44	61.0	2.41	86.0	3.34
11.5	0.45	36.5	1.46	61.5	2.42	86.5	3.35
12.0	0.47	37.0	1.48	62.0	2.44	87.0	3.37
12.5	0.49	37.5	1.50	62.5	2.46	87.5	3.39
13.0	0.52	38.0	1.52	63.0	2.48	88.0	3.41
13.5	0.54	38.5	1.54	63.5	2.50	88.5	3.43
14.0	0.56	39.0	1.56	64.0	2.52	89.0	3.45
14.5	0.58	39.5	1.58	64.5	2.54	89.5	3.46
15.0	0.60	40.0	1.60	65.0	2.56	90.0	3.48
15.5	0.62	40.5	1.61	65.5	2.58	90.5	3.50
16.0	0.64	41.0	1.63	66.0	2.59	91.0	3.52
16.5	0.66	41.5	1.65	66.5	2.61	91.5	3.54
17.0	0.68	42.0	1.67	67.0	2.63	92.0	3.55
17.5	0.70	42.5	1.69	67.5	2.65	92.5	3.57
18.0	0.72	43.0	1.71	68.0	2.67	93.0	3.59
18.5	0.74	43.5	1.73	68.5	2.69	93.5	3.61
19.0	0.76	44.0	1.75	69.0	2.71	94.0	3.63
19.5	0.78	44.5	1.77	69.5	2.73	94.5	3.64
20.0	0.80	45.0	1.79	70.0	2.74	95.0	3.66
20.5	0.82	45.5	1.81	70.5	2.76	95.5	3.68
21.0	0.84	46.0	1.83	71.0	2.78	96.0	3.70
21.5	0.86	46.5	1.85	71.5	2.80	96.5	3.72
22.0	0.88	47.0	1.87	72.0	2.82	97.0	3.73
22.5	0.90	47.5	1.89	72.5	2.84	97.5	3.75
23.0	0.92	48.0	1.91	73.0	2.86	98.0	3.77
23.5	0.94	48.5	1.93	73.5	2.87	98.5	3.75
24.0	0.96	49.0	1.95	74.0	2.89	99.0	3.81
24.5	0.98	49.5	1.96	74.5	2.91	99.5	3.82
25.0	1.00	50.0	1.98	75.0	2.93	100.0	3.84

Temperature, °F

91.4

				Temperature, °C				33.0							
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.86		125.5		4.74		150.5		5.58		175.5		6.39	
101.0		3.88		126.0		4.75		151.0		5.60		176.0		6.41	
101.5		3.90		126.5		4.77		151.5		5.61		176.5		6.42	
102.0		3.91		127.0		4.79		152.0		5.63		177.0		6.44	
102.5		3.93		127.5		4.80		152.5		5.64		177.5		6.45	
103.0		3.95		128.0		4.82		153.0		5.66		178.0		6.47	
103.5		3.97		128.5		4.84		153.5		5.68		178.5		6.49	
104.0		3.98		129.0		4.86		154.0		5.69		179.0		6.50	
104.5		4.00		129.5		4.87		154.5		5.71		179.5		6.52	
105.0		4.02		130.0		4.89		155.0		5.73		180.0		6.53	
105.5		4.04		130.5		4.91		155.5		5.74		180.5		6.55	
106.0		4.05		131.0		4.92		156.0		5.76		181.0		6.56	
106.5		4.07		131.5		4.94		156.5		5.78		181.5		6.58	
107.0		4.09		132.0		4.96		157.0		5.79		182.0		6.60	
107.5		4.11		132.5		4.97		157.5		5.81		182.5		6.61	
108.0		4.13		133.0		4.99		158.0		5.83		183.0		6.63	
108.5		4.14		133.5		5.01		158.5		5.84		183.5		6.64	
109.0		4.16		134.0		5.03		159.0		5.86		184.0		6.66	
109.5		4.18		134.5		5.04		159.5		5.87		184.5		6.67	
110.0		4.20		135.0		5.06		160.0		5.89		185.0		6.69	
110.5		4.21		135.5		5.08		160.5		5.91		185.5		6.71	
111.0		4.23		136.0		5.09		161.0		5.92		186.0		6.72	
111.5		4.25		136.5		5.11		161.5		5.94		186.5		6.74	
112.0		4.27		137.0		5.13		162.0		5.96		187.0		6.75	
112.5		4.28		137.5		5.14		162.5		5.97		187.5		6.77	
113.0		4.30		138.0		5.16		163.0		5.99		188.0		6.78	
113.5		4.32		138.5		5.18		163.5		6.00		188.5		6.80	
114.0		4.34		139.0		5.19		164.0		6.02		189.0		6.82	
114.5		4.35		139.5		5.21		164.5		6.04		189.5		6.83	
115.0		4.37		140.0		5.23		165.0		6.05		190.0		6.85	
115.5		4.39		140.5		5.25		165.5		6.07		190.5		6.86	
116.0		4.41		141.0		5.26		166.0		6.09		191.0		6.88	
116.5		4.42		141.5		5.28		166.5		6.10		191.5		6.89	
117.0		4.44		142.0		5.30		167.0		6.12		192.0		6.91	
117.5		4.46		142.5		5.31		167.5		6.13		192.5		6.92	
118.0		4.48		143.0		5.33		168.0		6.15		193.0		6.94	
118.5		4.49		143.5		5.35		168.5		6.17		193.5		6.96	
119.0		4.51		144.0		5.36		169.0		6.18		194.0		6.97	
119.5		4.53		144.5		5.38		169.5		6.20		194.5		6.99	
120.0		4.55		145.0		5.40		170.0		6.21		195.0		7.00	
120.5		4.56		145.5		5.41		170.5		6.23		195.5		7.02	
121.0		4.58		146.0		5.43		171.0		6.25		196.0		7.03	
121.5		4.60		146.5		5.45		171.5		6.26		196.5		7.05	
122.0		4.61		147.0		5.46		172.0		6.28		197.0		7.06	
122.5		4.63		147.5		5.48		172.5		6.29		197.5		7.08	
123.0		4.65		148.0		5.50		173.0		6.31		198.0		7.09	
123.5		4.67		148.5		5.51		173.5		6.33		198.5		7.11	
124.0		4.68		149.0		5.53		174.0		6.34		199.0		7.13	
124.5		4.70		149.5		5.55		174.5		6.36		199.5		7.14	
125.0		4.72		150.0		5.56		175.0		6.37		200.0		7.16	

Temperature, °F

91.4

				Temperature, °C			
				34.0			
atü	-	kg		atü	-	kg	
0.5	0.00			25.5	1.02		
1.0	0.02			26.0	1.04		
1.5	0.04			26.5	1.06		
2.0	0.06			27.0	1.08		
2.5	0.08			27.5	1.10		
3.0	0.10			28.0	1.12		
3.5	0.12			28.5	1.14		
4.0	0.14			29.0	1.16		
4.5	0.17			29.5	1.18		
5.0	0.19			30.0	1.20		
5.5	0.21			30.5	1.22		
6.0	0.23			31.0	1.24		
6.5	0.25			31.5	1.26		
7.0	0.27			32.0	1.27		
7.5	0.29			32.5	1.29		
8.0	0.31			33.0	1.31		
8.5	0.33			33.5	1.33		
9.0	0.35			34.0	1.35		
9.5	0.37			34.5	1.37		
10.0	0.39			35.0	1.39		
10.5	0.41			35.5	1.41		
11.0	0.43			36.0	1.43		
11.5	0.45			36.5	1.45		
12.0	0.47			37.0	1.47		
12.5	0.49			37.5	1.49		
13.0	0.51			38.0	1.51		
13.5	0.53			38.5	1.53		
14.0	0.55			39.0	1.55		
14.5	0.57			39.5	1.57		
15.0	0.59			40.0	1.59		
15.5	0.61			40.5	1.61		
16.0	0.63			41.0	1.63		
16.5	0.66			41.5	1.65		
17.0	0.68			42.0	1.67		
17.5	0.70			42.5	1.69		
18.0	0.72			43.0	1.71		
18.5	0.74			43.5	1.73		
19.0	0.76			44.0	1.74		
19.5	0.78			44.5	1.76		
20.0	0.80			45.0	1.78		
20.5	0.82			45.5	1.80		
21.0	0.84			46.0	1.82		
21.5	0.86			46.5	1.84		
22.0	0.88			47.0	1.86		
22.5	0.90			47.5	1.88		
23.0	0.92			48.0	1.90		
23.5	0.94			48.5	1.92		
24.0	0.96			49.0	1.94		
24.5	0.98			49.5	1.96		
25.0	1.00			50.0	1.98		
				50.5	2.00		
				51.0	2.01		
				51.5	2.03		
				52.0	2.05		
				52.5	2.07		
				53.0	2.09		
				53.5	2.11		
				54.0	2.13		
				54.5	2.15		
				55.0	2.17		
				55.5	2.19		
				56.0	2.21		
				56.5	2.22		
				57.0	2.24		
				57.5	2.26		
				58.0	2.28		
				58.5	2.30		
				59.0	2.32		
				59.5	2.34		
				60.0	2.36		
				60.5	2.38		
				61.0	2.40		
				61.5	2.41		
				62.0	2.43		
				62.5	2.45		
				63.0	2.47		
				63.5	2.49		
				64.0	2.51		
				64.5	2.53		
				65.0	2.55		
				65.5	2.56		
				66.0	2.58		
				66.5	2.60		
				67.0	2.62		
				67.5	2.64		
				68.0	2.66		
				68.5	2.68		
				69.0	2.70		
				69.5	2.71		
				70.0	2.73		
				70.5	2.75		
				71.0	2.77		
				71.5	2.79		
				72.0	2.81		
				72.5	2.83		
				73.0	2.84		
				73.5	2.86		
				74.0	2.88		
				74.5	2.90		
				75.0	2.92		
				75.5	2.94		
				76.0	2.96		
				76.5	2.97		
				77.0	2.99		
				77.5	3.01		
				78.0	3.03		
				78.5	3.05		
				79.0	3.07		
				79.5	3.08		
				80.0	3.10		
				80.5	3.12		
				81.0	3.14		
				81.5	3.16		
				82.0	3.18		
				82.5	3.19		
				83.0	3.21		
				83.5	3.23		
				84.0	3.25		
				84.5	3.27		
				85.0	3.29		
				85.5	3.30		
				86.0	3.32		
				86.5	3.34		
				87.0	3.36		
				87.5	3.38		
				88.0	3.39		
				88.5	3.41		
				89.0	3.43		
				89.5	3.45		
				90.0	3.47		
				90.5	3.49		
				91.0	3.50		
				91.5	3.52		
				92.0	3.54		
				92.5	3.56		
				93.0	3.58		
				93.5	3.59		
				94.0	3.61		
				94.5	3.63		
				95.0	3.65		
				95.5	3.67		
				96.0	3.68		
				96.5	3.70		
				97.0	3.72		
				97.5	3.74		
				98.0	3.75		
				98.5	3.77		
				99.0	3.79		
				99.5	3.81		
				100.0	3.83		

Temperature, °F

93.2

				Temperature, °C											
				34.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5	3.84			125.5	4.72			150.5	5.56			175.5	6.36		
101.0	3.86			126.0	4.73			151.0	5.57			176.0	6.38		
101.5	3.88			126.5	4.75			151.5	5.59			176.5	6.40		
102.0	3.90			127.0	4.77			152.0	5.61			177.0	6.41		
102.5	3.91			127.5	4.78			152.5	5.62			177.5	6.43		
103.0	3.93			128.0	4.80			153.0	5.64			178.0	6.44		
103.5	3.95			128.5	4.82			153.5	5.65			178.5	6.46		
104.0	3.97			129.0	4.84			154.0	5.67			179.0	6.48		
104.5	3.99			129.5	4.85			154.5	5.69			179.5	6.49		
105.0	4.00			130.0	4.87			155.0	5.70			180.0	6.51		
105.5	4.02			130.5	4.89			155.5	5.72			180.5	6.52		
106.0	4.04			131.0	4.90			156.0	5.74			181.0	6.54		
106.5	4.06			131.5	4.92			156.5	5.75			181.5	6.55		
107.0	4.07			132.0	4.94			157.0	5.77			182.0	6.57		
107.5	4.09			132.5	4.95			157.5	5.79			182.5	6.59		
108.0	4.11			133.0	4.97			158.0	5.80			183.0	6.60		
108.5	4.13			133.5	4.99			158.5	5.82			183.5	6.62		
109.0	4.14			134.0	5.01			159.0	5.83			184.0	6.63		
109.5	4.16			134.5	5.02			159.5	5.85			184.5	6.65		
110.0	4.18			135.0	5.04			160.0	5.87			185.0	6.66		
110.5	4.20			135.5	5.06			160.5	5.88			185.5	6.68		
111.0	4.21			136.0	5.07			161.0	5.90			186.0	6.69		
111.5	4.23			136.5	5.09			161.5	5.92			186.5	6.71		
112.0	4.25			137.0	5.11			162.0	5.93			187.0	6.73		
112.5	4.27			137.5	5.12			162.5	5.95			187.5	6.74		
113.0	4.28			138.0	5.14			163.0	5.96			188.0	6.76		
113.5	4.30			138.5	5.16			163.5	5.98			188.5	6.77		
114.0	4.32			139.0	5.17			164.0	6.00			189.0	6.79		
114.5	4.34			139.5	5.19			164.5	6.01			189.5	6.80		
115.0	4.35			140.0	5.21			165.0	6.03			190.0	6.82		
115.5	4.37			140.5	5.22			165.5	6.04			190.5	6.83		
116.0	4.39			141.0	5.24			166.0	6.06			191.0	6.85		
116.5	4.41			141.5	5.26			166.5	6.08			191.5	6.87		
117.0	4.42			142.0	5.27			167.0	6.09			192.0	6.88		
117.5	4.44			142.5	5.29			167.5	6.11			192.5	6.90		
118.0	4.46			143.0	5.31			168.0	6.13			193.0	6.91		
118.5	4.48			143.5	5.32			168.5	6.14			193.5	6.93		
119.0	4.49			144.0	5.34			169.0	6.16			194.0	6.94		
119.5	4.51			144.5	5.36			169.5	6.17			194.5	6.96		
120.0	4.53			145.0	5.37			170.0	6.19			195.0	6.97		
120.5	4.54			145.5	5.39			170.5	6.21			195.5	6.99		
121.0	4.56			146.0	5.41			171.0	6.22			196.0	7.00		
121.5	4.58			146.5	5.42			171.5	6.24			196.5	7.02		
122.0	4.60			147.0	5.44			172.0	6.25			197.0	7.04		
122.5	4.61			147.5	5.46			172.5	6.27			197.5	7.05		
123.0	4.63			148.0	5.47			173.0	6.28			198.0	7.07		
123.5	4.65			148.5	5.49			173.5	6.30			198.5	7.08		
124.0	4.66			149.0	5.51			174.0	6.32			199.0	7.10		
124.5	4.68			149.5	5.52			174.5	6.33			199.5	7.11		
125.0	4.70			150.0	5.54			175.0	6.35			200.0	7.13		

Temperature, °F

93.2

				Temperature, °C		35.0	
atü	-	kg		atü	-	kg	
0.5	0.00	25.5	1.01	50.5	1.99	75.5	2.93
1.0	0.02	26.0	1.03	51.0	2.01	76.0	2.94
1.5	0.04	26.5	1.05	51.5	2.03	76.5	2.96
2.0	0.06	27.0	1.07	52.0	2.04	77.0	2.98
2.5	0.08	27.5	1.09	52.5	2.06	77.5	3.00
3.0	0.10	28.0	1.11	53.0	2.08	78.0	3.02
3.5	0.12	28.5	1.13	53.5	2.10	78.5	3.04
4.0	0.14	29.0	1.15	54.0	2.12	79.0	3.05
4.5	0.16	29.5	1.17	54.5	2.14	79.5	3.07
5.0	0.19	30.0	1.19	55.0	2.16	80.0	3.09
5.5	0.21	30.5	1.21	55.5	2.18	80.5	3.11
6.0	0.23	31.0	1.23	56.0	2.20	81.0	3.13
6.5	0.25	31.5	1.25	56.5	2.22	81.5	3.14
7.0	0.27	32.0	1.27	57.0	2.23	82.0	3.16
7.5	0.29	32.5	1.29	57.5	2.25	82.5	3.18
8.0	0.31	33.0	1.31	58.0	2.27	83.0	3.20
8.5	0.33	33.5	1.33	58.5	2.29	83.5	3.22
9.0	0.35	34.0	1.35	59.0	2.31	84.0	3.24
9.5	0.37	34.5	1.37	59.5	2.33	84.5	3.25
10.0	0.39	35.0	1.39	60.0	2.35	85.0	3.27
10.5	0.41	35.5	1.41	60.5	2.37	85.5	3.29
11.0	0.43	36.0	1.43	61.0	2.39	86.0	3.31
11.5	0.45	36.5	1.45	61.5	2.40	86.5	3.33
12.0	0.47	37.0	1.47	62.0	2.42	87.0	3.34
12.5	0.49	37.5	1.48	62.5	2.44	87.5	3.36
13.0	0.51	38.0	1.50	63.0	2.46	88.0	3.38
13.5	0.53	38.5	1.52	63.5	2.48	88.5	3.40
14.0	0.55	39.0	1.54	64.0	2.50	89.0	3.42
14.5	0.57	39.5	1.56	64.5	2.52	89.5	3.43
15.0	0.59	40.0	1.58	65.0	2.54	90.0	3.45
15.5	0.61	40.5	1.60	65.5	2.55	90.5	3.47
16.0	0.63	41.0	1.62	66.0	2.57	91.0	3.49
16.5	0.65	41.5	1.64	66.5	2.59	91.5	3.51
17.0	0.67	42.0	1.66	67.0	2.61	92.0	3.52
17.5	0.69	42.5	1.68	67.5	2.63	92.5	3.54
18.0	0.71	43.0	1.70	68.0	2.65	93.0	3.56
18.5	0.73	43.5	1.72	68.5	2.67	93.5	3.58
19.0	0.75	44.0	1.74	69.0	2.68	94.0	3.60
19.5	0.77	44.5	1.76	69.5	2.70	94.5	3.61
20.0	0.79	45.0	1.78	70.0	2.72	95.0	3.63
20.5	0.81	45.5	1.80	70.5	2.74	95.5	3.65
21.0	0.83	46.0	1.81	71.0	2.76	96.0	3.67
21.5	0.85	46.5	1.83	71.5	2.78	96.5	3.69
22.0	0.87	47.0	1.85	72.0	2.80	97.0	3.70
22.5	0.89	47.5	1.87	72.5	2.81	97.5	3.72
23.0	0.91	48.0	1.89	73.0	2.83	98.0	3.74
23.5	0.93	48.5	1.91	73.5	2.85	98.5	3.76
24.0	0.95	49.0	1.93	74.0	2.87	99.0	3.77
24.5	0.97	49.5	1.95	74.5	2.89	99.5	3.79
25.0	0.99	50.0	1.97	75.0	2.91	100.0	3.81

Temperature, °F

95.0

				Temperature, °C											
				35.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.83		125.5		4.70		150.5		5.53		175.5		6.34	
101.0		3.85		126.0		4.71		151.0		5.55		176.0		6.35	
101.5		3.86		126.5		4.73		151.5		5.57		176.5		6.37	
102.0		3.88		127.0		4.75		152.0		5.58		177.0		6.39	
102.5		3.90		127.5		4.77		152.5		5.60		177.5		6.40	
103.0		3.92		128.0		4.78		153.0		5.62		178.0		6.42	
103.5		3.93		128.5		4.80		153.5		5.63		178.5		6.43	
104.0		3.95		129.0		4.82		154.0		5.65		179.0		6.45	
104.5		3.97		129.5		4.83		154.5		5.66		179.5		6.46	
105.0		3.99		130.0		4.85		155.0		5.68		180.0		6.48	
105.5		4.00		130.5		4.87		155.5		5.70		180.5		6.50	
106.0		4.02		131.0		4.88		156.0		5.71		181.0		6.51	
106.5		4.04		131.5		4.90		156.5		5.73		181.5		6.53	
107.0		4.06		132.0		4.92		157.0		5.75		182.0		6.54	
107.5		4.07		132.5		4.93		157.5		5.76		182.5		6.56	
108.0		4.09		133.0		4.95		158.0		5.78		183.0		6.57	
108.5		4.11		133.5		4.97		158.5		5.79		183.5		6.59	
109.0		4.13		134.0		4.99		159.0		5.81		184.0		6.61	
109.5		4.14		134.5		5.00		159.5		5.83		184.5		6.62	
110.0		4.16		135.0		5.02		160.0		5.84		185.0		6.64	
110.5		4.18		135.5		5.04		160.5		5.86		185.5		6.65	
111.0		4.20		136.0		5.05		161.0		5.88		186.0		6.67	
111.5		4.21		136.5		5.07		161.5		5.89		186.5		6.68	
112.0		4.23		137.0		5.09		162.0		5.91		187.0		6.70	
112.5		4.25		137.5		5.10		162.5		5.92		187.5		6.71	
113.0		4.27		138.0		5.12		163.0		5.94		188.0		6.73	
113.5		4.28		138.5		5.14		163.5		5.96		188.5		6.75	
114.0		4.30		139.0		5.15		164.0		5.97		189.0		6.76	
114.5		4.32		139.5		5.17		164.5		5.99		189.5		6.78	
115.0		4.34		140.0		5.19		165.0		6.00		190.0		6.79	
115.5		4.35		140.5		5.20		165.5		6.02		190.5		6.81	
116.0		4.37		141.0		5.22		166.0		6.04		191.0		6.82	
116.5		4.39		141.5		5.24		166.5		6.05		191.5		6.84	
117.0		4.41		142.0		5.25		167.0		6.07		192.0		6.85	
117.5		4.42		142.5		5.27		167.5		6.08		192.5		6.87	
118.0		4.44		143.0		5.29		168.0		6.10		193.0		6.88	
118.5		4.46		143.5		5.30		168.5		6.12		193.5		6.90	
119.0		4.47		144.0		5.32		169.0		6.13		194.0		6.91	
119.5		4.49		144.5		5.34		169.5		6.15		194.5		6.93	
120.0		4.51		145.0		5.35		170.0		6.16		195.0		6.95	
120.5		4.53		145.5		5.37		170.5		6.18		195.5		6.96	
121.0		4.54		146.0		5.39		171.0		6.20		196.0		6.98	
121.5		4.56		146.5		5.40		171.5		6.21		196.5		6.99	
122.0		4.58		147.0		5.42		172.0		6.23		197.0		7.01	
122.5		4.59		147.5		5.43		172.5		6.24		197.5		7.02	
123.0		4.61		148.0		5.45		173.0		6.26		198.0		7.04	
123.5		4.63		148.5		5.47		173.5		6.28		198.5		7.05	
124.0		4.65		149.0		5.48		174.0		6.29		199.0		7.07	
124.5		4.66		149.5		5.50		174.5		6.31		199.5		7.08	
125.0		4.68		150.0		5.52		175.0		6.32		200.0		7.10	

Temperature, °F

95.0

				Temperature, °C											
				36.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
0.5		0.00		25.5		1.01		50.5		1.98		75.5		2.91	
1.0		0.02		26.0		1.03		51.0		2.00		76.0		2.93	
1.5		0.04		26.5		1.05		51.5		2.02		76.5		2.95	
2.0		0.06		27.0		1.07		52.0		2.04		77.0		2.97	
2.5		0.08		27.5		1.09		52.5		2.05		77.5		2.99	
3.0		0.10		28.0		1.11		53.0		2.07		78.0		3.00	
3.5		0.12		28.5		1.13		53.5		2.09		78.5		3.02	
4.0		0.14		29.0		1.15		54.0		2.11		79.0		3.04	
4.5		0.16		29.5		1.17		54.5		2.13		79.5		3.06	
5.0		0.18		30.0		1.19		55.0		2.15		80.0		3.08	
5.5		0.20		30.5		1.21		55.5		2.17		80.5		3.10	
6.0		0.23		31.0		1.23		56.0		2.19		81.0		3.11	
6.5		0.25		31.5		1.24		56.5		2.21		81.5		3.13	
7.0		0.27		32.0		1.26		57.0		2.23		82.0		3.15	
7.5		0.29		32.5		1.28		57.5		2.24		82.5		3.17	
8.0		0.31		33.0		1.30		58.0		2.26		83.0		3.19	
8.5		0.33		33.5		1.32		58.5		2.28		83.5		3.20	
9.0		0.35		34.0		1.34		59.0		2.30		84.0		3.22	
9.5		0.37		34.5		1.36		59.5		2.32		84.5		3.24	
10.0		0.39		35.0		1.38		60.0		2.34		85.0		3.26	
10.5		0.41		35.5		1.40		60.5		2.36		85.5		3.28	
11.0		0.43		36.0		1.42		61.0		2.38		86.0		3.29	
11.5		0.45		36.5		1.44		61.5		2.39		86.5		3.31	
12.0		0.47		37.0		1.46		62.0		2.41		87.0		3.33	
12.5		0.49		37.5		1.48		62.5		2.43		87.5		3.35	
13.0		0.51		38.0		1.50		63.0		2.45		88.0		3.37	
13.5		0.53		38.5		1.52		63.5		2.47		88.5		3.38	
14.0		0.55		39.0		1.54		64.0		2.49		89.0		3.40	
14.5		0.57		39.5		1.56		64.5		2.51		89.5		3.42	
15.0		0.59		40.0		1.58		65.0		2.53		90.0		3.44	
15.5		0.61		40.5		1.60		65.5		2.54		90.5		3.46	
16.0		0.63		41.0		1.61		66.0		2.56		91.0		3.47	
16.5		0.65		41.5		1.63		66.5		2.58		91.5		3.49	
17.0		0.67		42.0		1.65		67.0		2.60		92.0		3.51	
17.5		0.69		42.5		1.67		67.5		2.62		92.5		3.53	
18.0		0.71		43.0		1.69		68.0		2.64		93.0		3.55	
18.5		0.73		43.5		1.71		68.5		2.66		93.5		3.56	
19.0		0.75		44.0		1.73		69.0		2.67		94.0		3.58	
19.5		0.77		44.5		1.75		69.5		2.69		94.5		3.60	
20.0		0.79		45.0		1.77		70.0		2.71		95.0		3.62	
20.5		0.81		45.5		1.79		70.5		2.73		95.5		3.64	
21.0		0.83		46.0		1.81		71.0		2.75		96.0		3.65	
21.5		0.85		46.5		1.83		71.5		2.77		96.5		3.67	
22.0		0.87		47.0		1.85		72.0		2.78		97.0		3.69	
22.5		0.89		47.5		1.86		72.5		2.80		97.5		3.71	
23.0		0.91		48.0		1.88		73.0		2.82		98.0		3.72	
23.5		0.93		48.5		1.90		73.5		2.84		98.5		3.74	
24.0		0.95		49.0		1.92		74.0		2.86		99.0		3.76	
24.5		0.97		49.5		1.94		74.5		2.88		99.5		3.78	
25.0		0.99		50.0		1.96		75.0		2.89		100.0		3.79	

Temperature, °F

96.8

				Temperature, °C			
atü - kg		atü - kg		atü - kg		atü - kg	
100.5	3.81	125.5	4.68	150.5	5.51	175.5	6.31
101.0	3.83	126.0	4.69	151.0	5.53	176.0	6.33
101.5	3.85	126.5	4.71	151.5	5.54	176.5	6.34
102.0	3.87	127.0	4.73	152.0	5.56	177.0	6.36
102.5	3.88	127.5	4.75	152.5	5.58	177.5	6.38
103.0	3.90	128.0	4.76	153.0	5.59	178.0	6.39
103.5	3.92	128.5	4.78	153.5	5.61	178.5	6.41
104.0	3.94	129.0	4.80	154.0	5.62	179.0	6.42
104.5	3.95	129.5	4.81	154.5	5.64	179.5	6.44
105.0	3.97	130.0	4.83	155.0	5.66	180.0	6.45
105.5	3.99	130.5	4.85	155.5	5.67	180.5	6.47
106.0	4.01	131.0	4.86	156.0	5.69	181.0	6.49
106.5	4.02	131.5	4.88	156.5	5.71	181.5	6.50
107.0	4.04	132.0	4.90	157.0	5.72	182.0	6.52
107.5	4.06	132.5	4.91	157.5	5.74	182.5	6.53
108.0	4.08	133.0	4.93	158.0	5.75	183.0	6.55
108.5	4.09	133.5	4.95	158.5	5.77	183.5	6.56
109.0	4.11	134.0	4.96	159.0	5.79	184.0	6.58
109.5	4.13	134.5	4.98	159.5	5.80	184.5	6.59
110.0	4.14	135.0	5.00	160.0	5.82	185.0	6.61
110.5	4.16	135.5	5.01	160.5	5.84	185.5	6.63
111.0	4.18	136.0	5.03	161.0	5.85	186.0	6.64
111.5	4.20	136.5	5.05	161.5	5.87	186.5	6.66
112.0	4.21	137.0	5.06	162.0	5.88	187.0	6.67
112.5	4.23	137.5	5.08	162.5	5.90	187.5	6.69
113.0	4.25	138.0	5.10	163.0	5.92	188.0	6.70
113.5	4.27	138.5	5.11	163.5	5.93	188.5	6.72
114.0	4.28	139.0	5.13	164.0	5.95	189.0	6.73
114.5	4.30	139.5	5.15	164.5	5.96	189.5	6.75
115.0	4.32	140.0	5.16	165.0	5.98	190.0	6.76
115.5	4.34	140.5	5.18	165.5	6.00	190.5	6.78
116.0	4.35	141.0	5.20	166.0	6.01	191.0	6.79
116.5	4.37	141.5	5.21	166.5	6.03	191.5	6.81
117.0	4.39	142.0	5.23	167.0	6.04	192.0	6.83
117.5	4.40	142.5	5.25	167.5	6.06	192.5	6.84
118.0	4.42	143.0	5.26	168.0	6.08	193.0	6.86
118.5	4.44	143.5	5.28	168.5	6.09	193.5	6.87
119.0	4.46	144.0	5.30	169.0	6.11	194.0	6.89
119.5	4.47	144.5	5.31	169.5	6.12	194.5	6.90
120.0	4.49	145.0	5.33	170.0	6.14	195.0	6.92
120.5	4.51	145.5	5.35	170.5	6.15	195.5	6.93
121.0	4.52	146.0	5.36	171.0	6.17	196.0	6.95
121.5	4.54	146.5	5.38	171.5	6.19	196.5	6.96
122.0	4.56	147.0	5.40	172.0	6.20	197.0	6.98
122.5	4.58	147.5	5.41	172.5	6.22	197.5	6.99
123.0	4.59	148.0	5.43	173.0	6.23	198.0	7.01
123.5	4.61	148.5	5.45	173.5	6.25	198.5	7.02
124.0	4.63	149.0	5.46	174.0	6.27	199.0	7.04
124.5	4.64	149.5	5.48	174.5	6.28	199.5	7.05
125.0	4.66	150.0	5.49	175.0	6.30	200.0	7.07

Temperature, °F

96.8

				Temperature, °C		37.0	
atü	- kg	atü	- kg	atü	- kg	atü	- kg
0.5	0.00	25.5	1.00	50.5	1.97	75.5	2.90
1.0	0.02	26.0	1.02	51.0	1.99	76.0	2.92
1.5	0.04	26.5	1.04	51.5	2.01	76.5	2.94
2.0	0.06	27.0	1.06	52.0	2.03	77.0	2.96
2.5	0.08	27.5	1.08	52.5	2.05	77.5	2.97
3.0	0.10	28.0	1.10	53.0	2.07	78.0	2.99
3.5	0.12	28.5	1.12	53.5	2.08	78.5	3.01
4.0	0.14	29.0	1.14	54.0	2.10	79.0	3.03
4.5	0.16	29.5	1.16	54.5	2.12	79.5	3.05
5.0	0.18	30.0	1.18	55.0	2.14	80.0	3.06
5.5	0.20	30.5	1.20	55.5	2.16	80.5	3.08
6.0	0.22	31.0	1.22	56.0	2.18	81.0	3.10
6.5	0.24	31.5	1.24	56.5	2.20	81.5	3.12
7.0	0.26	32.0	1.26	57.0	2.22	82.0	3.14
7.5	0.29	32.5	1.28	57.5	2.23	82.5	3.16
8.0	0.31	33.0	1.30	58.0	2.25	83.0	3.17
8.5	0.33	33.5	1.32	58.5	2.27	83.5	3.19
9.0	0.35	34.0	1.34	59.0	2.29	84.0	3.21
9.5	0.37	34.5	1.36	59.5	2.31	84.5	3.23
10.0	0.39	35.0	1.38	60.0	2.33	85.0	3.25
10.5	0.41	35.5	1.40	60.5	2.35	85.5	3.26
11.0	0.43	36.0	1.41	61.0	2.37	86.0	3.28
11.5	0.45	36.5	1.43	61.5	2.38	86.5	3.30
12.0	0.47	37.0	1.45	62.0	2.40	87.0	3.32
12.5	0.49	37.5	1.47	62.5	2.42	87.5	3.33
13.0	0.51	38.0	1.49	63.0	2.44	88.0	3.35
13.5	0.53	38.5	1.51	63.5	2.46	88.5	3.37
14.0	0.55	39.0	1.53	64.0	2.48	89.0	3.39
14.5	0.57	39.5	1.55	64.5	2.50	89.5	3.41
15.0	0.59	40.0	1.57	65.0	2.51	90.0	3.42
15.5	0.61	40.5	1.59	65.5	2.53	90.5	3.44
16.0	0.63	41.0	1.61	66.0	2.55	91.0	3.46
16.5	0.65	41.5	1.63	66.5	2.57	91.5	3.48
17.0	0.67	42.0	1.65	67.0	2.59	92.0	3.50
17.5	0.69	42.5	1.67	67.5	2.61	92.5	3.51
18.0	0.71	43.0	1.68	68.0	2.63	93.0	3.53
18.5	0.73	43.5	1.70	68.5	2.64	93.5	3.55
19.0	0.75	44.0	1.72	69.0	2.66	94.0	3.57
19.5	0.77	44.5	1.74	69.5	2.68	94.5	3.58
20.0	0.79	45.0	1.76	70.0	2.70	95.0	3.60
20.5	0.81	45.5	1.78	70.5	2.72	95.5	3.62
21.0	0.83	46.0	1.80	71.0	2.74	96.0	3.64
21.5	0.85	46.5	1.82	71.5	2.75	96.5	3.66
22.0	0.87	47.0	1.84	72.0	2.77	97.0	3.67
22.5	0.89	47.5	1.86	72.5	2.79	97.5	3.69
23.0	0.91	48.0	1.88	73.0	2.81	98.0	3.71
23.5	0.93	48.5	1.89	73.5	2.83	98.5	3.73
24.0	0.94	49.0	1.91	74.0	2.85	99.0	3.74
24.5	0.96	49.5	1.93	74.5	2.86	99.5	3.76
25.0	0.98	50.0	1.95	75.0	2.88	100.0	3.78

Temperature, °F

98.6

				Temperature, °C											
				37.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.80		125.5		4.66		150.5		5.49		175.5		6.29	
101.0		3.81		126.0		4.68		151.0		5.50		176.0		6.30	
101.5		3.83		126.5		4.69		151.5		5.52		176.5		6.32	
102.0		3.85		127.0		4.71		152.0		5.54		177.0		6.33	
102.5		3.87		127.5		4.73		152.5		5.55		177.5		6.35	
103.0		3.88		128.0		4.74		153.0		5.57		178.0		6.36	
103.5		3.90		128.5		4.76		153.5		5.59		178.5		6.38	
104.0		3.92		129.0		4.78		154.0		5.60		179.0		6.40	
104.5		3.94		129.5		4.79		154.5		5.62		179.5		6.41	
105.0		3.95		130.0		4.81		155.0		5.63		180.0		6.43	
105.5		3.97		130.5		4.83		155.5		5.65		180.5		6.44	
106.0		3.99		131.0		4.84		156.0		5.67		181.0		6.46	
106.5		4.01		131.5		4.86		156.5		5.68		181.5		6.47	
107.0		4.02		132.0		4.88		157.0		5.70		182.0		6.49	
107.5		4.04		132.5		4.89		157.5		5.71		182.5		6.50	
108.0		4.06		133.0		4.91		158.0		5.73		183.0		6.52	
108.5		4.08		133.5		4.93		158.5		5.75		183.5		6.54	
109.0		4.09		134.0		4.94		159.0		5.76		184.0		6.55	
109.5		4.11		134.5		4.96		159.5		5.78		184.5		6.57	
110.0		4.13		135.0		4.98		160.0		5.79		185.0		6.58	
110.5		4.14		135.5		4.99		160.5		5.81		185.5		6.60	
111.0		4.16		136.0		5.01		161.0		5.83		186.0		6.61	
111.5		4.18		136.5		5.03		161.5		5.84		186.5		6.63	
112.0		4.20		137.0		5.04		162.0		5.86		187.0		6.64	
112.5		4.21		137.5		5.06		162.5		5.88		187.5		6.66	
113.0		4.23		138.0		5.08		163.0		5.89		188.0		6.67	
113.5		4.25		138.5		5.09		163.5		5.91		188.5		6.69	
114.0		4.27		139.0		5.11		164.0		5.92		189.0		6.71	
114.5		4.28		139.5		5.13		164.5		5.94		189.5		6.72	
115.0		4.30		140.0		5.14		165.0		5.95		190.0		6.74	
115.5		4.32		140.5		5.16		165.5		5.97		190.5		6.75	
116.0		4.33		141.0		5.18		166.0		5.99		191.0		6.77	
116.5		4.35		141.5		5.19		166.5		6.00		191.5		6.78	
117.0		4.37		142.0		5.21		167.0		6.02		192.0		6.80	
117.5		4.39		142.5		5.23		167.5		6.03		192.5		6.81	
118.0		4.40		143.0		5.24		168.0		6.05		193.0		6.83	
118.5		4.42		143.5		5.26		168.5		6.07		193.5		6.84	
119.0		4.44		144.0		5.28		169.0		6.08		194.0		6.86	
119.5		4.45		144.5		5.29		169.5		6.10		194.5		6.87	
120.0		4.47		145.0		5.31		170.0		6.11		195.0		6.89	
120.5		4.49		145.5		5.32		170.5		6.13		195.5		6.90	
121.0		4.51		146.0		5.34		171.0		6.15		196.0		6.92	
121.5		4.52		146.5		5.36		171.5		6.16		196.5		6.93	
122.0		4.54		147.0		5.37		172.0		6.18		197.0		6.95	
122.5		4.56		147.5		5.39		172.5		6.19		197.5		6.96	
123.0		4.57		148.0		5.41		173.0		6.21		198.0		6.98	
123.5		4.59		148.5		5.42		173.5		6.22		198.5		7.00	
124.0		4.61		149.0		5.44		174.0		6.24		199.0		7.01	
124.5		4.62		149.5		5.46		174.5		6.26		199.5		7.03	
125.0		4.64		150.0		5.47		175.0		6.27		200.0		7.04	

Temperature, °F

98.6

				Temperature, °C			
				38.0			
atü	-	kg		atü	-	kg	
0.5	0.00			25.5	1.00		
1.0	0.02			26.0	1.02		
1.5	0.04			26.5	1.04		
2.0	0.06			27.0	1.06		
2.5	0.08			27.5	1.08		
3.0	0.10			28.0	1.10		
3.5	0.12			28.5	1.12		
4.0	0.14			29.0	1.14		
4.5	0.16			29.5	1.16		
5.0	0.18			30.0	1.18		
5.5	0.20			30.5	1.20		
6.0	0.22			31.0	1.21		
6.5	0.24			31.5	1.23		
7.0	0.26			32.0	1.25		
7.5	0.28			32.5	1.27		
8.0	0.30			33.0	1.29		
8.5	0.32			33.5	1.31		
9.0	0.34			34.0	1.33		
9.5	0.36			34.5	1.35		
10.0	0.38			35.0	1.37		
10.5	0.40			35.5	1.39		
11.0	0.42			36.0	1.41		
11.5	0.44			36.5	1.43		
12.0	0.46			37.0	1.45		
12.5	0.48			37.5	1.47		
13.0	0.50			38.0	1.49		
13.5	0.52			38.5	1.50		
14.0	0.54			39.0	1.52		
14.5	0.56			39.5	1.54		
15.0	0.58			40.0	1.56		
15.5	0.60			40.5	1.58		
16.0	0.62			41.0	1.60		
16.5	0.64			41.5	1.62		
17.0	0.66			42.0	1.64		
17.5	0.68			42.5	1.66		
18.0	0.70			43.0	1.68		
18.5	0.72			43.5	1.70		
19.0	0.74			44.0	1.72		
19.5	0.76			44.5	1.73		
20.0	0.78			45.0	1.75		
20.5	0.80			45.5	1.77		
21.0	0.82			46.0	1.79		
21.5	0.84			46.5	1.81		
22.0	0.86			47.0	1.83		
22.5	0.88			47.5	1.85		
23.0	0.90			48.0	1.87		
23.5	0.92			48.5	1.89		
24.0	0.94			49.0	1.91		
24.5	0.96			49.5	1.92		
25.0	0.98			50.0	1.94		
				50.5	1.96		
				51.0	1.98		
				51.5	2.00		
				52.0	2.02		
				52.5	2.04		
				53.0	2.06		
				53.5	2.08		
				54.0	2.09		
				54.5	2.11		
				55.0	2.13		
				55.5	2.15		
				56.0	2.17		
				56.5	2.19		
				57.0	2.21		
				57.5	2.23		
				58.0	2.24		
				58.5	2.26		
				59.0	2.28		
				59.5	2.30		
				60.0	2.32		
				60.5	2.34		
				61.0	2.36		
				61.5	2.37		
				62.0	2.39		
				62.5	2.41		
				63.0	2.43		
				63.5	2.45		
				64.0	2.47		
				64.5	2.49		
				65.0	2.50		
				65.5	2.52		
				66.0	2.54		
				66.5	2.56		
				67.0	2.58		
				67.5	2.60		
				68.0	2.61		
				68.5	2.63		
				69.0	2.65		
				69.5	2.67		
				70.0	2.69		
				70.5	2.71		
				71.0	2.72		
				71.5	2.74		
				72.0	2.76		
				72.5	2.78		
				73.0	2.80		
				73.5	2.82		
				74.0	2.83		
				74.5	2.85		
				75.0	2.87		
				75.5	2.89		
				76.0	2.91		
				76.5	2.92		
				77.0	2.94		
				77.5	2.96		
				78.0	2.98		
				78.5	3.00		
				79.0	3.02		
				79.5	3.03		
				80.0	3.05		
				80.5	3.07		
				81.0	3.09		
				81.5	3.11		
				82.0	3.12		
				82.5	3.14		
				83.0	3.16		
				83.5	3.18		
				84.0	3.20		
				84.5	3.21		
				85.0	3.23		
				85.5	3.25		
				86.0	3.27		
				86.5	3.29		
				87.0	3.30		
				87.5	3.32		
				88.0	3.34		
				88.5	3.36		
				89.0	3.37		
				89.5	3.39		
				90.0	3.41		
				90.5	3.43		
				91.0	3.45		
				91.5	3.46		
				92.0	3.48		
				92.5	3.50		
				93.0	3.52		
				93.5	3.53		
				94.0	3.55		
				94.5	3.57		
				95.0	3.59		
				95.5	3.60		
				96.0	3.62		
				96.5	3.64		
				97.0	3.66		
				97.5	3.68		
				98.0	3.69		
				98.5	3.71		
				99.0	3.73		
				99.5	3.75		
				100.0	3.76		

Temperature, °F

100.4

				Temperature, °C		38.0		
atü	-	kg	atü	-	kg	atü	-	kg
100.5		3.78	125.5		4.64	150.5		5.46
101.0		3.80	126.0		4.66	151.0		5.48
101.5		3.82	126.5		4.67	151.5		5.50
102.0		3.83	127.0		4.69	152.0		5.51
102.5		3.85	127.5		4.71	152.5		5.53
103.0		3.87	128.0		4.72	153.0		5.55
103.5		3.88	128.5		4.74	153.5		5.56
104.0		3.90	129.0		4.76	154.0		5.58
104.5		3.92	129.5		4.77	154.5		5.59
105.0		3.94	130.0		4.79	155.0		5.61
105.5		3.95	130.5		4.81	155.5		5.63
106.0		3.97	131.0		4.82	156.0		5.64
106.5		3.99	131.5		4.84	156.5		5.66
107.0		4.01	132.0		4.86	157.0		5.67
107.5		4.02	132.5		4.87	157.5		5.69
108.0		4.04	133.0		4.89	158.0		5.71
108.5		4.06	133.5		4.91	158.5		5.72
109.0		4.08	134.0		4.92	159.0		5.74
109.5		4.09	134.5		4.94	159.5		5.75
110.0		4.11	135.0		4.96	160.0		5.77
110.5		4.13	135.5		4.97	160.5		5.79
111.0		4.14	136.0		4.99	161.0		5.80
111.5		4.16	136.5		5.01	161.5		5.82
112.0		4.18	137.0		5.02	162.0		5.83
112.5		4.20	137.5		5.04	162.5		5.85
113.0		4.21	138.0		5.06	163.0		5.87
113.5		4.23	138.5		5.07	163.5		5.88
114.0		4.25	139.0		5.09	164.0		5.90
114.5		4.26	139.5		5.11	164.5		5.91
115.0		4.28	140.0		5.12	165.0		5.93
115.5		4.30	140.5		5.14	165.5		5.95
116.0		4.32	141.0		5.15	166.0		5.96
116.5		4.33	141.5		5.17	166.5		5.98
117.0		4.35	142.0		5.19	167.0		5.99
117.5		4.37	142.5		5.20	167.5		6.01
118.0		4.38	143.0		5.22	168.0		6.02
118.5		4.40	143.5		5.24	168.5		6.04
119.0		4.42	144.0		5.25	169.0		6.06
119.5		4.44	144.5		5.27	169.5		6.07
120.0		4.45	145.0		5.29	170.0		6.09
120.5		4.47	145.5		5.30	170.5		6.10
121.0		4.49	146.0		5.32	171.0		6.12
121.5		4.50	146.5		5.33	171.5		6.14
122.0		4.52	147.0		5.35	172.0		6.15
122.5		4.54	147.5		5.37	172.5		6.17
123.0		4.55	148.0		5.38	173.0		6.18
123.5		4.57	148.5		5.40	173.5		6.20
124.0		4.59	149.0		5.42	174.0		6.21
124.5		4.60	149.5		5.43	174.5		6.23
125.0		4.62	150.0		5.45	175.0		6.24
175.5		6.26	176.0		6.28	176.5		6.29
177.0		6.31	177.5		6.32	178.0		6.34
178.5		6.35	179.0		6.37	179.5		6.38
180.0		6.40	180.5		6.42	181.0		6.43
181.5		6.45	182.0		6.46	182.5		6.48
183.0		6.49	183.5		6.51	184.0		6.52
184.5		6.54	185.0		6.55	185.5		6.57
186.0		6.59	186.5		6.60	187.0		6.62
187.5		6.63	188.0		6.65	188.5		6.66
189.0		6.68	189.5		6.69	190.0		6.71
190.5		6.72	191.0		6.74	191.5		6.75
192.0		6.77	192.5		6.78	193.0		6.80
193.5		6.81	194.0		6.83	194.5		6.84
195.0		6.86	195.5		6.88	196.0		6.89
196.5		6.91	197.0		6.92	197.5		6.94
198.0		6.95	198.5		6.97	199.0		6.98
199.5		7.00	200.0		7.01			

Temperature, °F

100.4

				Temperature, °C			
				39.0			
atü	-	kg		atü	-	kg	
0.5	0.00			25.5	1.00		
1.0	0.02			26.0	1.02		
1.5	0.04			26.5	1.03		
2.0	0.06			27.0	1.05		
2.5	0.08			27.5	1.07		
3.0	0.10			28.0	1.09		
3.5	0.12			28.5	1.11		
4.0	0.14			29.0	1.13		
4.5	0.16			29.5	1.15		
5.0	0.18			30.0	1.17		
5.5	0.20			30.5	1.19		
6.0	0.22			31.0	1.21		
6.5	0.24			31.5	1.23		
7.0	0.26			32.0	1.25		
7.5	0.28			32.5	1.27		
8.0	0.30			33.0	1.29		
8.5	0.32			33.5	1.31		
9.0	0.34			34.0	1.33		
9.5	0.36			34.5	1.34		
10.0	0.38			35.0	1.36		
10.5	0.40			35.5	1.38		
11.0	0.42			36.0	1.40		
11.5	0.44			36.5	1.42		
12.0	0.46			37.0	1.44		
12.5	0.48			37.5	1.46		
13.0	0.50			38.0	1.48		
13.5	0.52			38.5	1.50		
14.0	0.54			39.0	1.52		
14.5	0.56			39.5	1.54		
15.0	0.58			40.0	1.56		
15.5	0.60			40.5	1.57		
16.0	0.62			41.0	1.59		
16.5	0.64			41.5	1.61		
17.0	0.66			42.0	1.63		
17.5	0.68			42.5	1.65		
18.0	0.70			43.0	1.67		
18.5	0.72			43.5	1.69		
19.0	0.74			44.0	1.71		
19.5	0.76			44.5	1.73		
20.0	0.78			45.0	1.75		
20.5	0.80			45.5	1.77		
21.0	0.82			46.0	1.78		
21.5	0.84			46.5	1.80		
22.0	0.86			47.0	1.82		
22.5	0.88			47.5	1.84		
23.0	0.90			48.0	1.86		
23.5	0.92			48.5	1.88		
24.0	0.94			49.0	1.90		
24.5	0.96			49.5	1.92		
25.0	0.98			50.0	1.94		
50.5	1.95			50.5	1.95		
51.0	1.97			51.0	1.97		
51.5	1.99			51.5	1.99		
52.0	2.01			52.0	2.01		
52.5	2.03			52.5	2.03		
53.0	2.05			53.0	2.05		
53.5	2.07			53.5	2.07		
54.0	2.09			54.0	2.09		
54.5	2.10			54.5	2.10		
55.0	2.12			55.0	2.12		
55.5	2.14			55.5	2.14		
56.0	2.16			56.0	2.16		
56.5	2.18			56.5	2.18		
57.0	2.20			57.0	2.20		
57.5	2.22			57.5	2.22		
58.0	2.23			58.0	2.23		
58.5	2.25			58.5	2.25		
59.0	2.27			59.0	2.27		
59.5	2.29			59.5	2.29		
60.0	2.31			60.0	2.31		
60.5	2.33			60.5	2.33		
61.0	2.35			61.0	2.35		
61.5	2.36			61.5	2.36		
62.0	2.38			62.0	2.38		
62.5	2.40			62.5	2.40		
63.0	2.42			63.0	2.42		
63.5	2.44			63.5	2.44		
64.0	2.46			64.0	2.46		
64.5	2.47			64.5	2.47		
65.0	2.49			65.0	2.49		
65.5	2.51			65.5	2.51		
66.0	2.53			66.0	2.53		
66.5	2.55			66.5	2.55		
67.0	2.57			67.0	2.57		
67.5	2.58			67.5	2.58		
68.0	2.60			68.0	2.60		
68.5	2.62			68.5	2.62		
69.0	2.64			69.0	2.64		
69.5	2.66			69.5	2.66		
70.0	2.68			70.0	2.68		
70.5	2.69			70.5	2.69		
71.0	2.71			71.0	2.71		
71.5	2.73			71.5	2.73		
72.0	2.75			72.0	2.75		
72.5	2.77			72.5	2.77		
73.0	2.79			73.0	2.79		
73.5	2.80			73.5	2.80		
74.0	2.82			74.0	2.82		
74.5	2.84			74.5	2.84		
75.0	2.86			75.0	2.86		
75.5	2.88			75.5	2.88		
76.0	2.89			76.0	2.89		
76.5	2.91			76.5	2.91		
77.0	2.93			77.0	2.93		
77.5	2.95			77.5	2.95		
78.0	2.97			78.0	2.97		
78.5	2.98			78.5	2.98		
79.0	3.00			79.0	3.00		
79.5	3.02			79.5	3.02		
80.0	3.04			80.0	3.04		
80.5	3.06			80.5	3.06		
81.0	3.07			81.0	3.07		
81.5	3.09			81.5	3.09		
82.0	3.11			82.0	3.11		
82.5	3.13			82.5	3.13		
83.0	3.15			83.0	3.15		
83.5	3.16			83.5	3.16		
84.0	3.18			84.0	3.18		
84.5	3.20			84.5	3.20		
85.0	3.22			85.0	3.22		
85.5	3.24			85.5	3.24		
86.0	3.25			86.0	3.25		
86.5	3.27			86.5	3.27		
87.0	3.29			87.0	3.29		
87.5	3.31			87.5	3.31		
88.0	3.32			88.0	3.32		
88.5	3.34			88.5	3.34		
89.0	3.36			89.0	3.36		
89.5	3.38			89.5	3.38		
90.0	3.40			90.0	3.40		
90.5	3.41			90.5	3.41		
91.0	3.43			91.0	3.43		
91.5	3.45			91.5	3.45		
92.0	3.47			92.0	3.47		
92.5	3.48			92.5	3.48		
93.0	3.50			93.0	3.50		
93.5	3.52			93.5	3.52		
94.0	3.54			94.0	3.54		
94.5	3.55			94.5	3.55		
95.0	3.57			95.0	3.57		
95.5	3.59			95.5	3.59		
96.0	3.61			96.0	3.61		
96.5	3.62			96.5	3.62		
97.0	3.64			97.0	3.64		
97.5	3.66			97.5	3.66		
98.0	3.68			98.0	3.68		
98.5	3.69			98.5	3.69		
99.0	3.71			99.0	3.71		
99.5	3.73			99.5	3.73		
100.0	3.75			100.0	3.75		

Temperature, °F

102.2

				Temperature, °C											
				39.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.76		125.5		4.62		150.5		5.44		175.5		6.23	
101.0		3.78		126.0		4.64		151.0		5.46		176.0		6.25	
101.5		3.80		126.5		4.65		151.5		5.47		176.5		6.26	
102.0		3.82		127.0		4.67		152.0		5.49		177.0		6.28	
102.5		3.83		127.5		4.69		152.5		5.51		177.5		6.30	
103.0		3.85		128.0		4.70		153.0		5.52		178.0		6.31	
103.5		3.87		128.5		4.72		153.5		5.54		178.5		6.33	
104.0		3.89		129.0		4.74		154.0		5.55		179.0		6.34	
104.5		3.90		129.5		4.75		154.5		5.57		179.5		6.36	
105.0		3.92		130.0		4.77		155.0		5.59		180.0		6.37	
105.5		3.94		130.5		4.79		155.5		5.60		180.5		6.39	
106.0		3.95		131.0		4.80		156.0		5.62		181.0		6.40	
106.5		3.97		131.5		4.82		156.5		5.63		181.5		6.42	
107.0		3.99		132.0		4.84		157.0		5.65		182.0		6.43	
107.5		4.01		132.5		4.85		157.5		5.67		182.5		6.45	
108.0		4.02		133.0		4.87		158.0		5.68		183.0		6.47	
108.5		4.04		133.5		4.89		158.5		5.70		183.5		6.48	
109.0		4.06		134.0		4.90		159.0		5.71		184.0		6.50	
109.5		4.08		134.5		4.92		159.5		5.73		184.5		6.51	
110.0		4.09		135.0		4.94		160.0		5.75		185.0		6.53	
110.5		4.11		135.5		4.95		160.5		5.76		185.5		6.54	
111.0		4.13		136.0		4.97		161.0		5.78		186.0		6.56	
111.5		4.14		136.5		4.98		161.5		5.79		186.5		6.57	
112.0		4.16		137.0		5.00		162.0		5.81		187.0		6.59	
112.5		4.18		137.5		5.02		162.5		5.83		187.5		6.60	
113.0		4.20		138.0		5.03		163.0		5.84		188.0		6.62	
113.5		4.21		138.5		5.05		163.5		5.86		188.5		6.63	
114.0		4.23		139.0		5.07		164.0		5.87		189.0		6.65	
114.5		4.25		139.5		5.08		164.5		5.89		189.5		6.66	
115.0		4.26		140.0		5.10		165.0		5.90		190.0		6.68	
115.5		4.28		140.5		5.12		165.5		5.92		190.5		6.69	
116.0		4.30		141.0		5.13		166.0		5.94		191.0		6.71	
116.5		4.31		141.5		5.15		166.5		5.95		191.5		6.73	
117.0		4.33		142.0		5.17		167.0		5.97		192.0		6.74	
117.5		4.35		142.5		5.18		167.5		5.98		192.5		6.76	
118.0		4.37		143.0		5.20		168.0		6.00		193.0		6.77	
118.5		4.38		143.5		5.21		168.5		6.02		193.5		6.79	
119.0		4.40		144.0		5.23		169.0		6.03		194.0		6.80	
119.5		4.42		144.5		5.25		169.5		6.05		194.5		6.82	
120.0		4.43		145.0		5.26		170.0		6.06		195.0		6.83	
120.5		4.45		145.5		5.28		170.5		6.08		195.5		6.85	
121.0		4.47		146.0		5.30		171.0		6.09		196.0		6.86	
121.5		4.48		146.5		5.31		171.5		6.11		196.5		6.88	
122.0		4.50		147.0		5.33		172.0		6.12		197.0		6.89	
122.5		4.52		147.5		5.34		172.5		6.14		197.5		6.91	
123.0		4.53		148.0		5.36		173.0		6.16		198.0		6.92	
123.5		4.55		148.5		5.38		173.5		6.17		198.5		6.94	
124.0		4.57		149.0		5.39		174.0		6.19		199.0		6.95	
124.5		4.59		149.5		5.41		174.5		6.20		199.5		6.97	
125.0		4.60		150.0		5.43		175.0		6.22		200.0		6.98	

Temperature, °F

102.2

				Temperature, °C											
				40.0											
atū	-	kg		atū	-	kg		atū	-	kg		atū	-	kg	
0.5		0.00		25.5		0.99		50.5		1.95		75.5		2.86	
1.0		0.02		26.0		1.01		51.0		1.96		76.0		2.88	
1.5		0.04		26.5		1.03		51.5		1.98		76.5		2.90	
2.0		0.06		27.0		1.05		52.0		2.00		77.0		2.92	
2.5		0.08		27.5		1.07		52.5		2.02		77.5		2.94	
3.0		0.10		28.0		1.09		53.0		2.04		78.0		2.95	
3.5		0.12		28.5		1.11		53.5		2.06		78.5		2.97	
4.0		0.14		29.0		1.13		54.0		2.08		79.0		2.99	
4.5		0.16		29.5		1.15		54.5		2.09		79.5		3.01	
5.0		0.18		30.0		1.17		55.0		2.11		80.0		3.03	
5.5		0.20		30.5		1.19		55.5		2.13		80.5		3.04	
6.0		0.22		31.0		1.20		56.0		2.15		81.0		3.06	
6.5		0.24		31.5		1.22		56.5		2.17		81.5		3.08	
7.0		0.26		32.0		1.24		57.0		2.19		82.0		3.10	
7.5		0.28		32.5		1.26		57.5		2.21		82.5		3.11	
8.0		0.30		33.0		1.28		58.0		2.22		83.0		3.13	
8.5		0.32		33.5		1.30		58.5		2.24		83.5		3.15	
9.0		0.34		34.0		1.32		59.0		2.26		84.0		3.17	
9.5		0.36		34.5		1.34		59.5		2.28		84.5		3.19	
10.0		0.38		35.0		1.36		60.0		2.30		85.0		3.20	
10.5		0.40		35.5		1.38		60.5		2.32		85.5		3.22	
11.0		0.42		36.0		1.40		61.0		2.34		86.0		3.24	
11.5		0.44		36.5		1.42		61.5		2.35		86.5		3.26	
12.0		0.46		37.0		1.43		62.0		2.37		87.0		3.27	
12.5		0.48		37.5		1.45		62.5		2.39		87.5		3.29	
13.0		0.50		38.0		1.47		63.0		2.41		88.0		3.31	
13.5		0.52		38.5		1.49		63.5		2.43		88.5		3.33	
14.0		0.54		39.0		1.51		64.0		2.45		89.0		3.35	
14.5		0.56		39.5		1.53		64.5		2.46		89.5		3.36	
15.0		0.58		40.0		1.55		65.0		2.48		90.0		3.38	
15.5		0.60		40.5		1.57		65.5		2.50		90.5		3.40	
16.0		0.62		41.0		1.59		66.0		2.52		91.0		3.42	
16.5		0.64		41.5		1.61		66.5		2.54		91.5		3.43	
17.0		0.66		42.0		1.63		67.0		2.56		92.0		3.45	
17.5		0.68		42.5		1.64		67.5		2.57		92.5		3.47	
18.0		0.70		43.0		1.66		68.0		2.59		93.0		3.49	
18.5		0.72		43.5		1.68		68.5		2.61		93.5		3.50	
19.0		0.74		44.0		1.70		69.0		2.63		94.0		3.52	
19.5		0.76		44.5		1.72		69.5		2.65		94.5		3.54	
20.0		0.78		45.0		1.74		70.0		2.66		95.0		3.56	
20.5		0.80		45.5		1.76		70.5		2.68		95.5		3.57	
21.0		0.82		46.0		1.78		71.0		2.70		96.0		3.59	
21.5		0.84		46.5		1.80		71.5		2.72		96.5		3.61	
22.0		0.85		47.0		1.81		72.0		2.74		97.0		3.63	
22.5		0.87		47.5		1.83		72.5		2.76		97.5		3.64	
23.0		0.89		48.0		1.85		73.0		2.77		98.0		3.66	
23.5		0.91		48.5		1.87		73.5		2.79		98.5		3.68	
24.0		0.93		49.0		1.89		74.0		2.81		99.0		3.70	
24.5		0.95		49.5		1.91		74.5		2.83		99.5		3.71	
25.0		0.97		50.0		1.93		75.0		2.85		100.0		3.73	

Temperature, °F

104.0

				Temperature, °C											
				40.0											
atü	-	kg		atü	-	kg		atü	-	kg		atü	-	kg	
100.5		3.75		125.5		4.60		150.5		5.42		175.5		6.21	
101.0		3.77		126.0		4.62		151.0		5.43		176.0		6.22	
101.5		3.78		126.5		4.63		151.5		5.45		176.5		6.24	
102.0		3.80		127.0		4.65		152.0		5.47		177.0		6.25	
102.5		3.82		127.5		4.67		152.5		5.48		177.5		6.27	
103.0		3.83		128.0		4.68		153.0		5.50		178.0		6.28	
103.5		3.85		128.5		4.70		153.5		5.51		178.5		6.30	
104.0		3.87		129.0		4.72		154.0		5.53		179.0		6.32	
104.5		3.89		129.5		4.73		154.5		5.55		179.5		6.33	
105.0		3.90		130.0		4.75		155.0		5.56		180.0		6.35	
105.5		3.92		130.5		4.77		155.5		5.58		180.5		6.36	
106.0		3.94		131.0		4.78		156.0		5.59		181.0		6.38	
106.5		3.96		131.5		4.80		156.5		5.61		181.5		6.39	
107.0		3.97		132.0		4.81		157.0		5.63		182.0		6.41	
107.5		3.99		132.5		4.83		157.5		5.64		182.5		6.42	
108.0		4.01		133.0		4.85		158.0		5.66		183.0		6.44	
108.5		4.02		133.5		4.86		158.5		5.67		183.5		6.45	
109.0		4.04		134.0		4.88		159.0		5.69		184.0		6.47	
109.5		4.06		134.5		4.90		159.5		5.71		184.5		6.48	
110.0		4.08		135.0		4.91		160.0		5.72		185.0		6.50	
110.5		4.09		135.5		4.93		160.5		5.74		185.5		6.51	
111.0		4.11		136.0		4.95		161.0		5.75		186.0		6.53	
111.5		4.13		136.5		4.96		161.5		5.77		186.5		6.54	
112.0		4.14		137.0		4.98		162.0		5.78		187.0		6.56	
112.5		4.16		137.5		5.00		162.5		5.80		187.5		6.58	
113.0		4.18		138.0		5.01		163.0		5.82		188.0		6.59	
113.5		4.19		138.5		5.03		163.5		5.83		188.5		6.61	
114.0		4.21		139.0		5.05		164.0		5.85		189.0		6.62	
114.5		4.23		139.5		5.06		164.5		5.86		189.5		6.64	
115.0		4.25		140.0		5.08		165.0		5.88		190.0		6.65	
115.5		4.26		140.5		5.09		165.5		5.90		190.5		6.67	
116.0		4.28		141.0		5.11		166.0		5.91		191.0		6.68	
116.5		4.30		141.5		5.13		166.5		5.93		191.5		6.70	
117.0		4.31		142.0		5.14		167.0		5.94		192.0		6.71	
117.5		4.33		142.5		5.16		167.5		5.96		192.5		6.73	
118.0		4.35		143.0		5.18		168.0		5.97		193.0		6.74	
118.5		4.36		143.5		5.19		168.5		5.99		193.5		6.76	
119.0		4.38		144.0		5.21		169.0		6.00		194.0		6.77	
119.5		4.40		144.5		5.22		169.5		6.02		194.5		6.79	
120.0		4.41		145.0		5.24		170.0		6.04		195.0		6.80	
120.5		4.43		145.5		5.26		170.5		6.05		195.5		6.82	
121.0		4.45		146.0		5.27		171.0		6.07		196.0		6.83	
121.5		4.46		146.5		5.29		171.5		6.08		196.5		6.85	
122.0		4.48		147.0		5.31		172.0		6.10		197.0		6.86	
122.5		4.50		147.5		5.32		172.5		6.11		197.5		6.88	
123.0		4.52		148.0		5.34		173.0		6.13		198.0		6.89	
123.5		4.53		148.5		5.35		173.5		6.15		198.5		6.91	
124.0		4.55		149.0		5.37		174.0		6.16		199.0		6.92	
124.5		4.57		149.5		5.39		174.5		6.18		199.5		6.94	
125.0		4.58		150.0		5.40		175.0		6.19		200.0		6.95	

Temperature, °F

104.0