

CLASSIC

Submittal

JVA/VA-AR18EI
Classic Architectural
Copper/Aluminum and
Steel Elements

Specification

JVA Slip Jointed Enclosure

ENCLOSURE:

STYLE: Classic Ext. Alum. Inlet
OUTLET: Extruded Aluminum Grille
Pencil Proof

LENGTHS: 2'0" thru 8'0" in 6" Increments

MAT'L: 16 Ga. CRS (Std)
 14 Ga. CRS (Opt'l)
 16 Ga. Stainless Steel (Opt'l)*
 14 Ga. Stainless Steel (Opt'l)*
 14 Ga. Aluminum (Opt'l)
 12 Ga. Aluminum (Opt'l)

FINISH: Baked Powder (Std)
 Baked Metallic (Opt'l)

FLOOR ANGLE:

Ext. Al (Clear Anodized)
 1" x 1" CRS Painted

ACCESSORIES:

JVA Overlapping Type
 VA Underlapping Type

ELEMENT:

TYPE: Cu/Al (Mechanically Expanded)
LENGTHS: 2'0" thru 12'6" in 1" Increments for 1" & 1-1/4" Cu.
2'0" thru 8'0" in 1" Increments for 3/4" Cu.

One End Flared, (Std)

TYPE: IPS Steel (Mechanically Expanded)

LENGTHS: 2'0" Thru 12'0" in 1" Increments
 NPT Thread both Ends (Std)
 Beveled Ends for Field Weld

See Catalog for Working Pressures

VA Wiped Edge Enclosure

BACKPLATE:

TYPE: Partial B/P
LENGTHS: 8'0" Only
MAT'L: 20 Ga. Prepainted (Std)
 18 Ga. Galvannealed (Opt'l)

TYPE: Full Ht. B/P (Opt'l)
LENGTHS: 2'0" thru 8'0" in 6" Increments
MAT'L: 20 Ga. Galvannealed (Opt'l)
 20 Ga. Painted (Opt'l)
 18 Ga. Painted (Opt'l)

AIRSEAL:

1/8" x 3/8" Closed Cell (Opt'l)

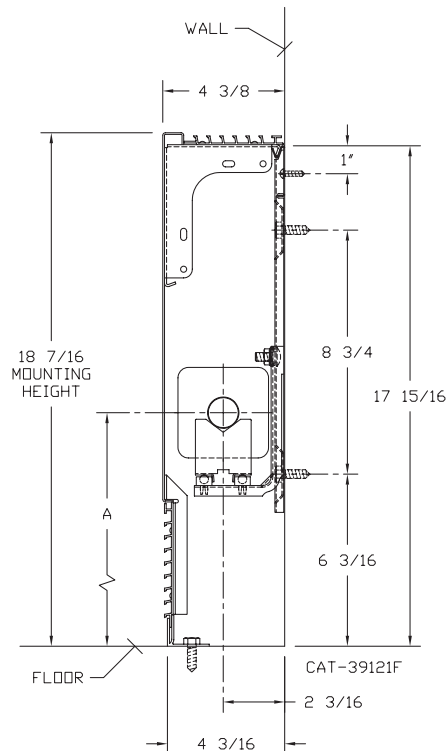
BRACKETS:

Vertical Wall Brkt w/B.B. Hgr

DAMPER:

Dial Type (Opt'l)
 Tamper Resistant (Opt'l)

JVA/VA-AR18EI
(JVA Shown)



| ELEMENT TUBE SIZE | FIN SIZE HEIGHT x WIDTH | CRADLE NUMBER | A MIN | A MAX |
|-------------------|-------------------------|---------------|--------|--------|
| 3/4 COPPER | 3 1/4 x 3 1/4 | 2 | 7" | 9 1/2" |
| 1" COPPER | 3 1/4 x 3 1/4 | 2 | 7 1/4" | 9 5/8" |
| 1 1/4 COPPER | 3 1/4 x 3 1/4 | 1 | 7" | 9 1/8" |
| 1" STEEL | 3 1/4 x 3 1/4 | 2 | 7 1/4" | 9 3/4" |
| 1 1/4 STEEL | 3 1/4 x 3 1/4 | 1 | 7" | 9 1/4" |



STERLING

COMMERCIAL HYDRONIC PRODUCTS

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PROJECT: _____ DATE: _____

LOCATION: _____

ARCHITECT: _____

ENGINEER: _____

CONTRACTOR: _____

PO NUMBER: _____

STYLE JVA/VA-AR18EI

COPPER/ALUMINUM ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 3/4" | C3/4-33 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1050 | 900 | 820 | 720 | 640 | 560 | 470 | 420 | 350 | 270 |
| 3/4" | C3/4-34 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1230 | 1060 | 960 | 850 | 750 | 650 | 550 | 490 | 410 | 320 |
| 3/4" | C3/4-35 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1370 | 1180 | 1070 | 950 | 840 | 730 | 620 | 550 | 450 | 360 |
| 1" | C33 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| 1" | C34 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |
| 1" | C35 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1320 | 1140 | 1030 | 910 | 810 | 700 | 590 | 530 | 440 | 340 |
| 1 1/4" | C133 | 3-1/4" SQ. | 32 | .020 | 18-7/16 | 1 | 18-7/16 | 960 | 830 | 750 | 660 | 590 | 510 | 430 | 380 | 320 | 250 |
| 1 1/4" | C134 | 3-1/4" SQ. | 40 | .020 | 18-7/16 | 1 | 18-7/16 | 1130 | 970 | 880 | 780 | 690 | 600 | 510 | 450 | 370 | 290 |
| 1 1/4" | C135 | 3-1/4" SQ. | 50 | .020 | 18-7/16 | 1 | 18-7/16 | 1270 | 1090 | 990 | 880 | 770 | 670 | 570 | 510 | 420 | 330 |

STEEL ELEMENT RATINGS

ALL RATINGS ARE IN BTU/HR/LIN FT AND BASED ON 3 FPS VELOCITY, 65° EAT

| TUBE SIZE | CATALOG DESIGNATION | FIN SIZE HEIGHT X WIDTH | FINS PER FT. | FIN THICKNESS IN INCHES | ENCL HEIGHT IN INCHES | TIERS AND CENTERS IN INCHES | MTG. HEIGHT IN INCHES | STEAM 215° FACTOR | HOT WATER (AVG.) | | | | | | | | |
|-----------|---------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------|---|------|------|------|------|------|------|------|------|
| | | | | | | | | | 200° | 190° | 180° | 170° | 160° | 150° | 140° | 130° | 120° |
| | | | | | | | | | CORRECTION FACTORS FOR AVERAGE WATER TEMPERATURES | | | | | | | | |
| | | | | | | | | 1.00 | 0.86 | 0.78 | 0.69 | 0.61 | 0.53 | 0.45 | .40 | .33 | .26 |
| 1" | S33 | 3-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 880 | 760 | 690 | 610 | 540 | 470 | 400 | 350 | 290 | 230 |
| 1" | S34 | 3-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 970 | 830 | 760 | 670 | 590 | 510 | 440 | 390 | 320 | 250 |
| 1" | S35 | 3-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1040 | 890 | 810 | 720 | 630 | 550 | 470 | 420 | 340 | 270 |
| 1-1/4" | S133 | 3-1/4" SQ. | 32 | .032 | 18-7/16 | 1 | 18-7/16 | 870 | 750 | 680 | 600 | 530 | 460 | 390 | 350 | 290 | 230 |
| 1-1/4" | S134 | 3-1/4" SQ. | 40 | .032 | 18-7/16 | 1 | 18-7/16 | 980 | 840 | 760 | 680 | 600 | 520 | 440 | 390 | 320 | 250 |
| 1-1/4" | S135 | 3-1/4" SQ. | 50 | .032 | 18-7/16 | 1 | 18-7/16 | 1020 | 880 | 800 | 700 | 620 | 540 | 460 | 410 | 340 | 270 |

DESIGN DATA

COMMERCIAL FINNED TUBE RATING CORRECTION CHARTS

CATALOG FINNED TUBE RATINGS ARE BASED UPON THE FOLLOWING CONDITIONS:

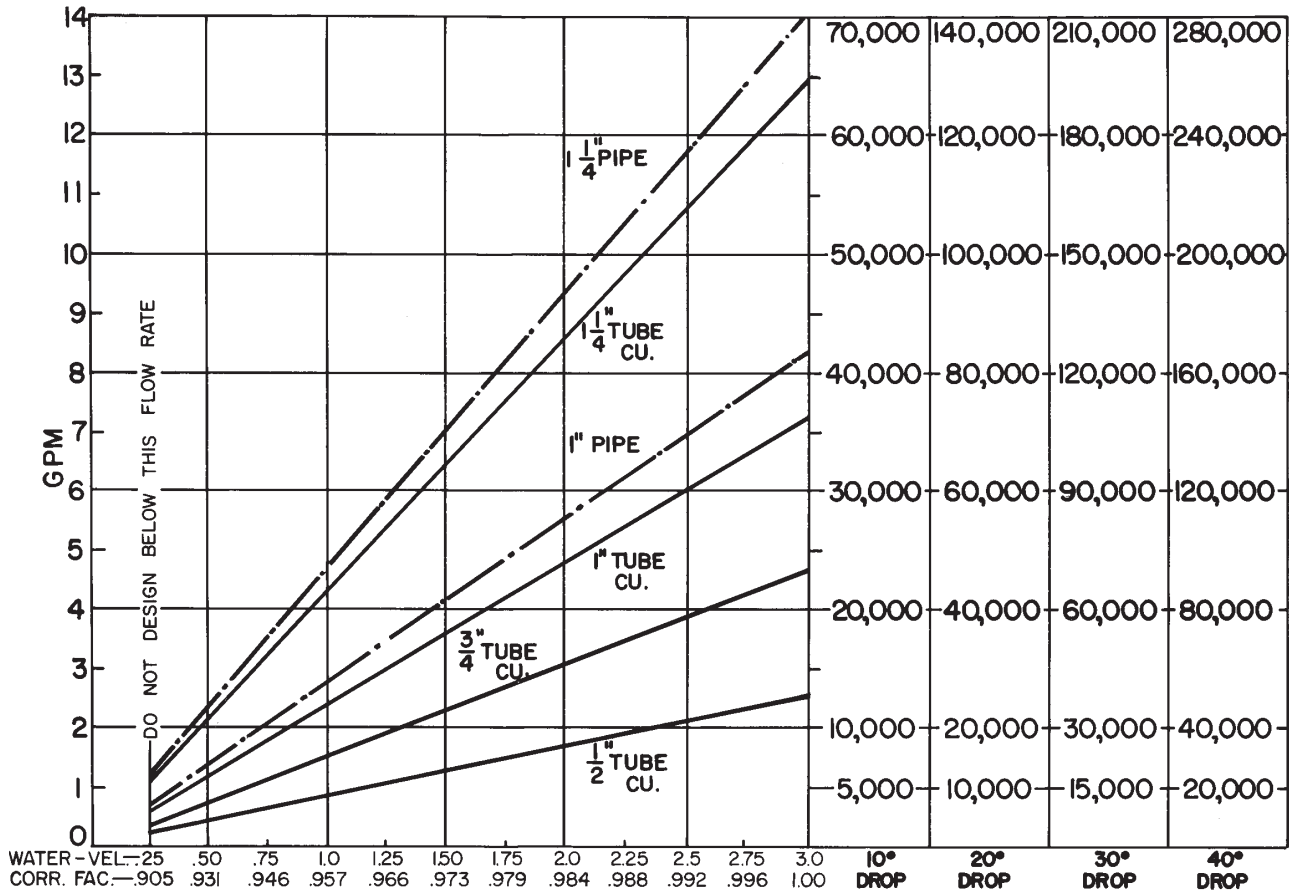
- 215°F AVERAGE WATER OR STEAM TEMPERATURE
- 65°F ENTERING AIR TEMPERATURE
- 3 FEET PER SECOND WATER FLOW RATE
- CATALOG MOUNTING HEIGHT

USE THE FOLLOWING CALCULATION WITH CORRECTION FACTORS FOR JOB CONDITIONS TO DETERMINE CORRECTED RATING:

$$\text{CORRECTED RATING} = (\text{215°F CATALOG RATING}) \times \left(\frac{\text{CORRECTION FACTOR FOR STEAM OR WATER AND AVERAGE AIR TEMP.}}{\text{CORRECTION FACTOR FOR FLOW RATE}} \right) \times \left(\frac{\text{CORRECTION FOR MOUNTING HTG.-SEE CATALOG RATING}}{\text{CORRECTION FOR MOUNTING HTG.-SEE CATALOG RATING}} \right)$$

USE THE FOLLOWING CHARTS TO SELECT CORRECTION FACTORS

CHART/WATER VEL./CORR. FACTOR / PRESS. DROP/TOTAL BTU.

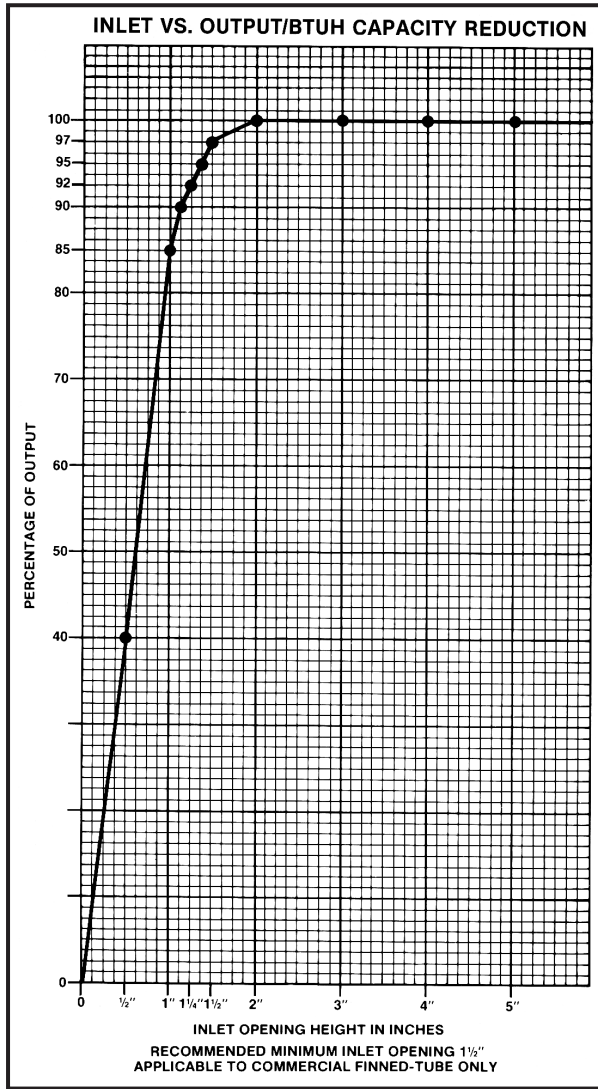


| | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 1/2" COP. ALUM. | 1,80 | 2,33 | 5,33 | 9,16 | | | | | | | | | |
| 3/4" COP. ALUM. | .5 | 1,5 | 3,16 | 5,4 | 6,25 | | | | | | | | |
| 1" COP. ALUM. | .233 | .41 | .83 | 1,45 | 2,16 | 2,83 | 3,66 | | | | | | |
| 1" PIPE | .37 | .79 | 1,3 | 2,00 | 2,70 | 3,70 | 4,80 | | | | | | |
| 1 1/4" COP. ALUM. | .16 | .33 | .55 | .79 | 1,08 | 1,33 | 1,8 | 2,25 | 2,26 | 2,91 | 3,3 | | |
| 1 1/4" PIPE | .09 | .18 | .31 | .5 | .70 | 1,0 | 1,1 | 1,3 | 1,6 | 1,8 | 2,58 | 2,3 | 3,3 |

PRESSURE DROP PER 100 LINEAR FT., IN FEET OF HEAD

DESIGN DATA

INLET AIR CORRECTION FACTOR



GUARANTEED WORKING PRESSURES

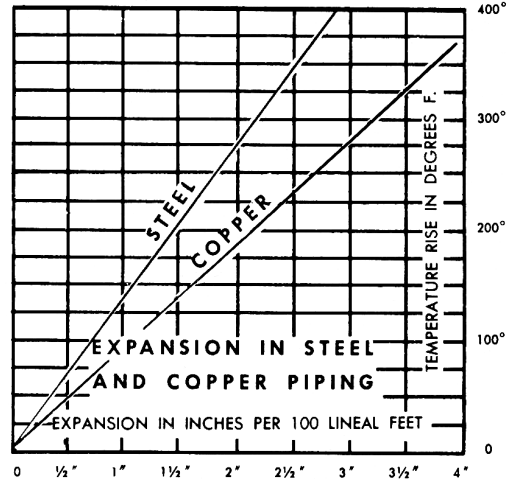
- 1" IPS — 780 AT TEMPERATURES UP TO 650°F.
 - 1 1/4" IPS — 660 AT TEMPERATURES UP TO 650°F.
 - 2" IPS — 405 AT TEMPERATURES UP TO 650°F.
 - 1 1/4" CU — 194 AT TEMPERATURES UP TO 300°F.
 - 1" CU — 204 AT TEMPERATURES UP TO 300°F.
 - 3/4" CU — 218 PSI AT TEMPERATURES UP TO 300°F.
- MAXIMUM PRESSURES AT OTHER TEMPERATURES ARE AVAILABLE UPON REQUEST.

RATE OF PITCH FOR STEAM 1/2" DROP OVER 20 FT. RUN.

| PIPE WATER CAPACITIES AND QUANTITIES CIRCULATED AT VELOCITY OF 3* FEET PER SECOND | | | |
|--|----------------------|----------------------------|--------------------------|
| Pipe Size | Gals. Per Linear Ft. | Gals./Min. @ 3' Sec. Vel.* | Lbs./Hr. @ 3' Sec. Vel.* |
| 1/2" | .016 | 2.88 | 1440 |
| 3/4" | .023 | 4.14 | 2070 |
| 1" | .040 | 7.20 | 3600 |
| 1 1/4" | .063 | 11.34 | 5660 |
| 1 1/2" | .102 | 18.36 | 9160 |
| 2" | .170 | 30.60 | 15300 |
| 2 1/2" | .275 | 49.50 | 24850 |
| 3" | .390 | 70.20 | 35000 |

*3 Ft./Sec. Velocity is Basic for Hot Water Rating Factors Shown on this Page.

$$\text{VELOCITY FT./SEC.} = \frac{\text{LBS. PER HOUR}}{(\text{GALS. PER FT.}) (3600) (8.3)}$$



GLYCOL CORRECTION FACTORS

Fluid Temperature 200°F

| % Solution | Ethylene Glycol | Propylene Glycol |
|------------|-----------------|------------------|
| 20 | .952 | .988 |
| 30 | .921 | .968 |
| 40 | .888 | .943 |
| 50 | .852 | .912 |

Fluid Temperature 180°F

| % Solution | Ethylene Glycol | Propylene Glycol |
|------------|-----------------|------------------|
| 20 | .946 | .982 |
| 30 | .913 | .961 |
| 40 | .879 | .934 |
| 50 | .842 | .902 |

Fluid Temperature 140°F

| % Solution | Ethylene Glycol | Propylene Glycol |
|------------|-----------------|------------------|
| 20 | .934 | .97 |
| 30 | .898 | .946 |
| 40 | .861 | .916 |
| 50 | .821 | .881 |

ALTITUDE FACTORS

Approximate factors for convective heat value at varying altitudes

| Altitude | Ferrous Units | Copper Alum. Units |
|------------|---------------|--------------------|
| Sea Level | 1.000 | 1.000 |
| 1,000 ft. | .984 | .969 |
| 2,000 ft. | .968 | .938 |
| 3,000 ft. | .952 | .908 |
| 4,000 ft. | .936 | .878 |
| 5,000 ft. | .920 | .850 |
| 6,000 ft. | .904 | .822 |
| 7,000 ft. | .889 | .795 |
| 8,000 ft. | .874 | .768 |
| 9,000 ft. | .859 | .743 |
| 10,000 ft. | .844 | .718 |
| 15,000 ft. | .771 | .603 |
| 20,000 ft. | .703 | .502 |

CORRECTION FACTORS FOR STEAM PRESSURES AND AIR TEMPERATURES OTHER THAN STANDARD

| STEAM | | ENTERING AIR TEMPERATURE, °F | | | | | | | | | | | | | | |
|--------------|----------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Pressure | | Temp. | | | STD | | | | | | | | | | | |
| Gauge | Abs. Psi | °F | 45 | 55 | 65 | 70 | 75 | 80 | 85 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
| (Vac) 15" Hg | 7.32 | 178.9 | 0.90 | 0.80 | 0.70 | 0.65 | 0.60 | 0.56 | 0.51 | 0.45 | 0.39 | 0.32 | 0.25 | 0.18 | 0.13 | 0.08 |
| (Vac) 10" | 9.78 | 192.2 | 1.02 | 0.91 | 0.81 | 0.76 | 0.71 | 0.66 | 0.62 | 0.55 | 0.48 | 0.40 | 0.33 | 0.26 | 0.20 | 0.14 |
| (Vac) 5" | 12.25 | 202.9 | 1.11 | 1.00 | 0.90 | 0.85 | 0.79 | 0.75 | 0.70 | 0.63 | 0.56 | 0.48 | 0.40 | 0.33 | 0.27 | 0.20 |
| (Vac) 0 Psi | 14.696 | 212.0 | 1.19 | 1.09 | 0.97 | 0.92 | 0.87 | 0.82 | 0.77 | 0.70 | 0.63 | 0.54 | 0.46 | 0.38 | 0.31 | 0.25 |
| ▶ .899 | 15.595 | 215.0 | 1.22 | 1.11 | 1.00 | 0.95 | 0.90 | 0.84 | 0.80 | 0.75 | 0.65 | 0.57 | 0.48 | 0.40 | 0.33 | 0.26 |
| 5 | 19.70 | 227.1 | 1.34 | 1.22 | 1.11 | 1.05 | 1.00 | 0.95 | 0.90 | 0.81 | 0.75 | 0.66 | 0.57 | 0.49 | 0.41 | 0.34 |
| 10 | 24.70 | 239.4 | 1.45 | 1.33 | 1.22 | 1.17 | 1.11 | 1.05 | 1.00 | 0.91 | 0.85 | 0.75 | 0.66 | 0.58 | 0.50 | 0.42 |
| 15 | 29.70 | 249.8 | 1.55 | 1.43 | 1.31 | 1.26 | 1.20 | 1.14 | 1.09 | 1.00 | 0.94 | 0.84 | 0.75 | 0.66 | 0.57 | 0.49 |
| 20 | 34.70 | 258.8 | 1.63 | 1.52 | 1.40 | 1.33 | 1.28 | 1.23 | 1.17 | 1.07 | 1.02 | 0.92 | 0.82 | 0.73 | 0.64 | 0.55 |
| 25 | 39.70 | 266.8 | 1.71 | 1.59 | 1.47 | 1.41 | 1.36 | 1.30 | 1.25 | 1.15 | 1.09 | 0.98 | 0.89 | 0.80 | 0.71 | 0.62 |
| 30 | 44.70 | 274.0 | 1.78 | 1.66 | 1.54 | 1.48 | 1.42 | 1.37 | 1.31 | 1.21 | 1.15 | 1.05 | 0.95 | 0.85 | 0.76 | 0.68 |
| 40 | 54.70 | 286.7 | 1.91 | 1.79 | 1.66 | 1.61 | 1.54 | 1.49 | 1.43 | 1.32 | 1.27 | 1.16 | 1.06 | 0.97 | 0.87 | 0.78 |
| 50 | 64.70 | 297.7 | 2.02 | 1.90 | 1.77 | 1.71 | 1.65 | 1.60 | 1.54 | 1.42 | 1.37 | 1.26 | 1.16 | 1.06 | 0.96 | 0.87 |
| 60 | 74.70 | 307.3 | 2.10 | 2.00 | 1.87 | 1.81 | 1.75 | 1.69 | 1.63 | 1.51 | 1.47 | 1.35 | 1.25 | 1.15 | 1.05 | 0.95 |
| 70 | 84.70 | 316.0 | 2.20 | 2.09 | 1.95 | 1.89 | 1.83 | 1.77 | 1.71 | 1.59 | 1.55 | 1.44 | 1.33 | 1.23 | 1.12 | 1.03 |
| 80 | 94.70 | 323.9 | 2.27 | 2.17 | 2.03 | 1.97 | 1.91 | 1.85 | 1.80 | 1.69 | 1.63 | 1.52 | 1.41 | 1.31 | 1.20 | 1.10 |
| 90 | 104.70 | 331.2 | 2.36 | 2.24 | 2.11 | 2.05 | 1.98 | 1.93 | 1.87 | 1.74 | 1.70 | 1.59 | 1.48 | 1.38 | 1.28 | 1.17 |
| 100 | 114.70 | 337.9 | 2.43 | 2.31 | 2.18 | 2.11 | 2.05 | 2.00 | 1.94 | 1.81 | 1.77 | 1.65 | 1.54 | 1.44 | 1.33 | 1.23 |
| 125 | 139.70 | 352.9 | 2.59 | 2.47 | 2.33 | 2.27 | 2.21 | 2.16 | 2.10 | 1.96 | 1.92 | 1.80 | 1.69 | 1.59 | 1.48 | 1.38 |
| 150 | 164.70 | 365.9 | 2.73 | 2.62 | 2.47 | 2.43 | 2.35 | 2.29 | 2.23 | 2.08 | 2.05 | 1.94 | 1.82 | 1.72 | 1.61 | 1.51 |
| 175 | 189.70 | 377.4 | 2.86 | 2.74 | 2.60 | 2.54 | 2.47 | 2.41 | 2.35 | 2.21 | 2.17 | 2.05 | 1.95 | 1.85 | 1.73 | 1.63 |
| 200 | 214.70 | 387.8 | 2.95 | 2.85 | 2.71 | 2.63 | 2.58 | 2.52 | 2.47 | 2.31 | 2.29 | 2.17 | 2.06 | 1.96 | 1.84 | 1.75 |

From Keenan and Keyes — Linear Interpolation.

Note: Gauge pressure should be corrected for altitude.

CORRECTION FACTORS FOR WATER TEMPERATURES AND AIR TEMPERATURES OTHER THAN STANDARD

| AVERAGE WATER TEMP. °F | ENTERING AIR TEMPERATURE, °F | | | | | | | | | | | | | | |
|---------------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 45 | 55 | STD | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 130 | 140 | 150 |
| 90 | .19 | .13 | .11 | .06 | | | | | | | | | | | |
| 100 | .25 | .19 | .15 | .11 | .08 | .06 | | | | | | | | | |
| 110 | .31 | .25 | .20 | .16 | .13 | .11 | .08 | .06 | | | | | | | |
| 120 | .38 | .31 | .26 | .21 | .19 | .16 | .13 | .11 | .08 | .06 | | | | | |
| 130 | .45 | .38 | .33 | .28 | .25 | .21 | .19 | .16 | .13 | .11 | .06 | | | | |
| 140 | .53 | .45 | .40 | .34 | .31 | .28 | .25 | .21 | .19 | .16 | .11 | .06 | | | |
| 150 | .61 | .53 | .45 | .41 | .38 | .34 | .31 | .28 | .25 | .21 | .16 | .11 | .06 | | |
| 160 | .69 | .61 | .53 | .49 | .45 | .41 | .38 | .34 | .31 | .28 | .21 | .16 | .11 | .06 | |
| 170 | .77 | .69 | .61 | .57 | .53 | .49 | .45 | .41 | .38 | .34 | .28 | .21 | .16 | .11 | .06 |
| 180 | .86 | .77 | .69 | .65 | .61 | .57 | .53 | .49 | .45 | .41 | .34 | .28 | .21 | .16 | .11 |
| 190 | .95 | .86 | .78 | .73 | .69 | .65 | .61 | .57 | .53 | .49 | .41 | .34 | .28 | .21 | .16 |
| 200 | 1.05 | .95 | .86 | .82 | .77 | .73 | .69 | .65 | .61 | .57 | .49 | .41 | .34 | .28 | .21 |
| 210 | 1.14 | 1.05 | .95 | .91 | .86 | .82 | .77 | .73 | .69 | .65 | .57 | .49 | .41 | .34 | .28 |
| ▶ 215 (STD.) | 1.19 | 1.09 | 1.00 | .95 | .91 | .86 | .82 | .77 | .73 | .69 | .61 | .53 | .45 | .38 | .31 |
| 220 | 1.24 | 1.14 | 1.05 | 1.00 | .95 | .91 | .86 | .82 | .77 | .73 | .65 | .57 | .49 | .41 | .34 |
| 230 | 1.34 | 1.24 | 1.14 | 1.09 | 1.05 | 1.00 | .95 | .91 | .86 | .82 | .73 | .65 | .57 | .49 | .41 |
| 240 | 1.44 | 1.34 | 1.25 | 1.19 | 1.14 | 1.09 | 1.05 | 1.00 | .95 | .91 | .82 | .73 | .65 | .57 | .49 |
| 250 | 1.55 | 1.44 | 1.34 | 1.29 | 1.24 | 1.19 | 1.14 | 1.09 | 1.05 | 1.00 | .91 | .82 | .73 | .65 | .57 |
| 260 | 1.66 | 1.55 | 1.44 | 1.39 | 1.34 | 1.29 | 1.24 | 1.19 | 1.14 | 1.09 | 1.00 | .91 | .82 | .73 | .65 |
| 270 | 1.76 | 1.66 | 1.55 | 1.50 | 1.44 | 1.39 | 1.34 | 1.29 | 1.24 | 1.19 | 1.09 | 1.00 | .91 | .82 | .73 |
| 280 | 1.87 | 1.76 | 1.66 | 1.60 | 1.55 | 1.50 | 1.44 | 1.39 | 1.34 | 1.29 | 1.19 | 1.09 | 1.00 | .91 | .82 |
| 290 | 1.99 | 1.87 | 1.76 | 1.71 | 1.66 | 1.60 | 1.55 | 1.50 | 1.44 | 1.39 | 1.29 | 1.19 | 1.09 | 1.00 | .91 |
| 300 | 2.10 | 1.99 | 1.87 | 1.82 | 1.76 | 1.71 | 1.66 | 1.60 | 1.55 | 1.50 | 1.39 | 1.29 | 1.19 | 1.09 | 1.00 |