

CLASSIC

Submittal

JVB-ARSS19 25 29
Classic Architectural
Copper/Aluminum and
Steel Elements

JVB Slip Jointed Enclosure

Specification

ENCLOSURE:

STYLE: Classic Double Slope
OUTLET: Extruded Aluminum
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)

HEIGHT: 19-1/2"
 25-1/2"
 29-1/2"

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

ACCESSORIES:

All Accessories are Overlapping type
All accessories return to the wall at the bottom
and have pre-punched holes for fastening to
the wall.

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
or 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

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:

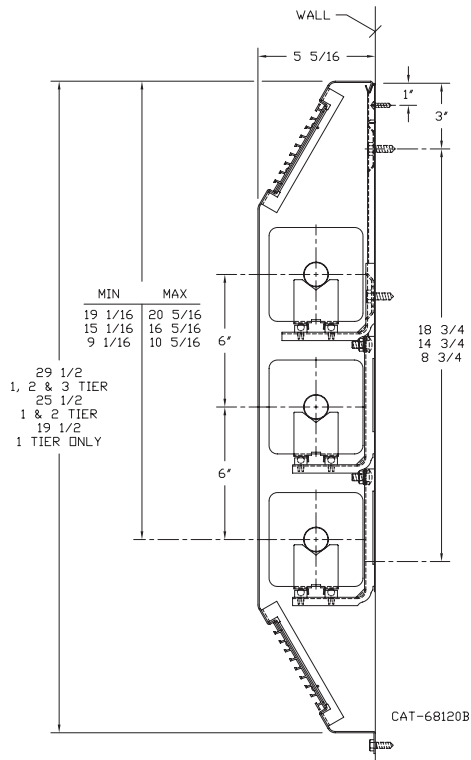
1/8" x 3/8" Closed Cell (Opt'l)

BRACKETS:

Vertical Wall Brkt
w/B.B. Hgr
 Wall Brkt w/B.B. Hgr
(For 3rd Tier)

DAMPER: Not Available

JVB-ARSS19 25 29



ELEMENT TUBE SIZE	FIN SIZE HEIGHT x WIDTH	CRADLE NUMBER	A
3/4 COPPER	3 5/8 x 4 1/4	2	7"
3/4 COPPER	4 1/4 x 4 1/4	3A	7 3/8"
1" COPPER	3 5/8 x 4 1/4	2	7 3/16"
1" COPPER	4 1/4 x 4 1/4	2	7 3/16"
1 1/4 COPPER	3 5/8 x 4 1/4	2	7 5/16"
1 1/4 COPPER	4 1/4 x 4 1/4	2	7 5/16"
1" STEEL	4 1/4 x 4 1/4	2	7 5/16"
1 1/4 STEEL	4 1/4 x 4 1/4	2	7 1/2"
2" STEEL	4 1/4 x 4 1/4	1	7 1/4"



STERLING

COMMERCIAL HYDRONIC PRODUCTS

260 North Elm St., Westfield, MA 01085

(413) 564-5535 Fax: (413) 562-8437

www.sterlingheat.com



PROJECT: _____ DATE: _____

LOCATION: _____

ARCHITECT: _____

ENGINEER: _____

CONTRACTOR: _____

PO NUMBER: _____

STYLE JVB-ARSS19 25 29

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"	C3/4-433	3-5/8" x 4-1/4"	32	.020	19-1/2	1	-		1220	1050	950	840	740	650	550	490	400	320		
					25-1/2	1	-		1305	1120	1020	900	800	690	590	520	430	340		
					25-1/2	2-6 CL	-		1985	1710	1550	1370	1210	1050	890	790	660	520	430	340
					29-1/2	1	-		1370	1180	1070	950	840	730	620	550	450	360		
					29-1/2	2-6 CL	-		2080	1790	1620	1440	1270	1100	940	830	690	540		
3/4"	C3/4-434	3-5/8" x 4-1/4"	40	.020	19-1/2	1	-		1470	1260	1150	1010	900	780	660	590	490	380		
					25-1/2	1	-		1570	1350	1220	1080	960	830	710	630	520	410		
					25-1/2	2-6 CL	-		2230	1920	1740	1540	1360	1180	1000	890	740	580		
					29-1/2	1	-		1650	1420	1290	1140	1010	870	740	660	540	430		
					29-1/2	2-6 CL	-		2330	2000	1820	1610	1420	1230	1050	930	770	610		
3/4"	C3/4-435	3-5/8" x 4-1/4"	50	.020	19-1/2	1	-		1590	1370	1240	1100	970	840	720	640	520	410		
					25-1/2	1	-		1805	1550	1410	1250	1100	960	810	720	600	470		
					25-1/2	2-6 CL	-		2435	2090	1900	1680	1490	1290	1100	970	800	630		
					29-1/2	1	-		1950	1680	1520	1350	1190	1030	880	780	640	510		
					29-1/2	2-6 CL	-		2685	2310	2090	1850	1640	1420	1210	1070	890	700		
1"	C433	3-5/8" x 4-1/4"	32	.020	19-1/2	1	-		1330	1140	1040	920	810	700	600	530	440	350		
					25-1/2	1	-		1400	1200	1090	970	850	740	630	560	460	360		
					25-1/2	2-6 CL	-		2160	1860	1680	1490	1320	1140	970	860	710	560		
					29-1/2	1	-		1460	1260	1140	1010	890	770	660	580	480	380		
					29-1/2	2-6 CL	-		2235	1920	1740	1540	1360	1180	1010	890	740	580		
1"	C434	3-5/8" x 4-1/4"	40	.020	19-1/2	1	-		1535	1320	1200	1060	940	810	690	610	510	400		
					25-1/2	1	-		1640	1410	1280	1130	1000	870	740	660	540	430		
					25-1/2	2-6 CL	-		2300	1980	1790	1590	1400	1220	1040	920	760	600		
					29-1/2	1	-		1720	1480	1340	1190	1050	910	770	690	570	450		
					29-1/2	2-6 CL	-		2390	2060	1860	1650	1460	1270	1080	960	790	620		
1"	C435	3-5/8" x 4-1/4"	50	.020	19-1/2	1	-		1665	1430	1300	1150	1020	880	750	670	550	430		
					25-1/2	1	-		1880	1620	1470	1300	1150	1000	850	750	620	490		
					25-1/2	2-6 CL	-		2280	1960	1780	1570	1390	1210	1030	910	750	590		
					29-1/2	1	-		2040	1750	1590	1410	1240	1080	920	820	670	530		
					29-1/2	2-6 CL	-		2510	2160	1960	1730	1530	1330	1130	1000	830	650		
1-1/4"	C1433	3-5/8" x 4-1/4"	32	.020	19-1/2	1	-		1250	1080	980	860	760	660	560	500	410	330		
					25-1/2	1	-		1320	1140	1030	910	810	700	590	530	440	340		
					25-1/2	2-6 CL	-		2040	1750	1590	1410	1240	1080	920	820	670	530		
					29-1/2	1	-		1375	1180	1070	950	840	730	620	550	450	360		
					29-1/2	2-6 CL	-		2115	1820	1650	1460	1290	1120	950	850	700	550		
1-1/4"	C1434	3-5/8" x 4-1/4"	40	.020	19-1/2	1	-		1500	1290	1170	1040	920	800	680	600	500	390		
					25-1/2	1	-		1625	1400	1270	1120	990	860	730	650	540	420		
					25-1/2	2-6 CL	-		2255	1940	1760	1560	1380	1200	1010	900	740	590		
					29-1/2	1	-		1685	1450	1310	1160	1030	890	760	670	560	440		
					29-1/2	2-6 CL	-		2340	2010	1830	1610	1430	1240	1050	940	770	610		
1-1/4"	C1435	3-5/8" x 4-1/4"	50	.020	19-1/2	1	-		1610	1380	1260	1110	980	850	720	640	530	420		
					25-1/2	1	-		1840	1580	1440	1270	1120	980	830	740	610	480		
					25-1/2	2-6 CL	-		2165	1860	1690	1490	1320	1150	970	870	710	560		
					29-1/2	1	-		1960	1690	1530	1350	1200	1040	880	780	650	510		
					29-1/2	2-6 CL	-		2425	2090	1890	1670	1480	1290	1090	970	800	630		
1-1/4"	C1435	3-5/8" x 4-1/4"	50	.020	29-1/2	3-6 CL	-		2740	2360	2140	1890	1670	1450	1230	1100	900	710		

STYLE JVB-ARSS19 25 29

COPPER/ALUMINUM ELEMENT RATINGS

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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"	C3/4-43	4-1/4" SQ.	32	.020	19-1/2	1	-	1320	1140	1030	910	810	700	590	530	440	340	
					25-1/2	1	-	1415	1220	1100	980	860	750	640	570	470	370	
					25-1/2	2-6 CL	-	2180	1870	1700	1500	1330	1160	980	870	720	570	
					29-1/2	1	-	1480	1270	1150	1020	900	780	670	590	490	380	
					29-1/2	2-6 CL	-	2280	1960	1780	1570	1390	1210	1030	910	750	590	
3/4"	C3/4-44	4-1/4" SQ.	40	.020	19-1/2	1	-	1610	1380	1260	1110	980	850	720	640	530	420	
					25-1/2	1	-	1730	1490	1350	1190	1060	920	780	690	570	450	
					25-1/2	2-6 CL	-	2430	2090	1900	1680	1480	1290	1090	970	800	630	
					29-1/2	1	-	1800	1550	1400	1240	1100	950	810	720	590	470	
					29-1/2	2-6 CL	-	2540	2180	1980	1750	1550	1350	1140	1020	840	660	
3/4"	C3/4-45	4-1/4" SQ.	50	.020	19-1/2	1	-	1650	1420	1290	1140	1010	870	740	660	540	430	
					25-1/2	1	-	1770	1520	1380	1220	1080	940	800	710	580	460	
					25-1/2	2-6 CL	-	2440	2100	1900	1680	1490	1290	1100	980	810	630	
					29-1/2	1	-	1990	1710	1550	1370	1210	1050	900	800	660	520	
					29-1/2	2-6 CL	-	2550	2190	1990	1760	1560	1350	1150	1020	840	660	
1"	C43	4-1/4" SQ.	32	.020	19-1/2	1	-	1425	1230	1110	980	870	760	640	570	470	370	
					25-1/2	1	-	1500	1290	1170	1040	920	800	680	600	500	390	
					25-1/2	2-6 CL	-	2235	1920	1740	1540	1360	1180	1010	890	740	580	
					29-1/2	1	-	1565	1350	1220	1080	950	830	700	630	520	410	
					29-1/2	2-6 CL	-	2445	2100	1910	1690	1490	1300	1100	980	810	640	
1"	C44	4-1/4" SQ.	40	.020	19-1/2	1	-	1625	1400	1270	1120	990	860	730	650	540	420	
					25-1/2	1	-	1760	1510	1370	1210	1070	930	790	700	580	460	
					25-1/2	2-6 CL	-	2325	2000	1810	1600	1420	1230	1050	930	770	600	
					29-1/2	1	-	1850	1590	1440	1280	1130	980	830	740	610	480	
					29-1/2	2-6 CL	-	2520	2170	1970	1740	1540	1340	1130	1010	830	660	
1"	C45	4-1/4" SQ.	50	.020	19-1/2	1	-	1780	1530	1390	1230	1090	940	800	710	590	460	
					25-1/2	1	-	2020	1740	1580	1390	1230	1070	910	810	670	530	
					25-1/2	2-6 CL	-	2315	1990	1810	1600	1410	1230	1040	930	760	600	
					29-1/2	1	-	2165	1860	1690	1490	1320	1150	970	870	710	560	
					29-1/2	2-6 CL	-	2590	2230	2020	1790	1580	1370	1170	1040	850	670	
1-1/4"	C143	4-1/4" SQ.	32	.020	19-1/2	1	-	1400	1200	1090	970	850	740	630	560	460	360	
					25-1/2	1	-	1475	1270	1150	1020	900	780	660	590	490	380	
					25-1/2	2-6 CL	-	2195	1890	1710	1510	1340	1160	990	880	720	570	
					29-1/2	1	-	1530	1320	1190	1060	930	810	690	610	500	400	
					29-1/2	2-6 CL	-	2400	2060	1870	1660	1460	1270	1080	960	790	620	
1-1/4"	C144	4-1/4" SQ.	40	.020	19-1/2	1	-	1600	1380	1250	1100	980	850	720	640	530	420	
					25-1/2	1	-	1725	1480	1350	1190	1050	910	780	690	570	450	
					25-1/2	2-6 CL	-	2280	1960	1780	1570	1390	1210	1030	910	750	590	
					29-1/2	1	-	1815	1560	1420	1250	1110	960	820	730	600	470	
					29-1/2	2-6 CL	-	2480	2130	1930	1710	1510	1310	1120	990	820	640	
1-1/4"	C145	4-1/4" SQ.	50	.020	19-1/2	1	-	1745	1500	1360	1200	1060	920	790	700	580	450	
					25-1/2	1	-	1985	1710	1550	1370	1210	1050	890	790	660	520	
					25-1/2	2-6 CL	-	2270	1950	1770	1570	1380	1200	1020	910	750	590	
					29-1/2	1	-	2135	1840	1670	1470	1300	1130	960	850	700	560	
					29-1/2	2-6 CL	-	2545	2190	1990	1760	1550	1350	1150	1020	840	660	
1-1/4"	C145	4-1/4" SQ.	50	.020	29-1/2	3-6 CL	-	2880	2480	2250	1990	1760	1530	1300	1150	950	750	

STYLE JVB-ARSS19 25 29

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"	S43	4-1/4" SQ.	32	.032	19-1/2	1	-		1215	1040	950	840	740	640	550	490	400	320
					25-1/2	1	-	1255	1080	980	870	770	670	560	500	410	330	
					25-1/2	2-6 CL	-	1980	1700	1540	1370	1210	1050	890	790	650	510	
					29-1/2	1	-	1290	1110	1010	890	790	680	580	520	430	340	
					29-1/2	2-6 CL	-	2045	1760	1600	1410	1250	1080	920	820	670	530	
1"	S44	4-1/4" SQ.	40	.032	19-1/2	1	-		1360	1170	1060	940	830	720	610	540	450	350
					25-1/2	1	-	1445	1240	1130	1000	880	770	650	580	480	380	
					25-1/2	2-6 CL	-	2140	1840	1670	1480	1310	1130	960	860	710	560	
					29-1/2	1	-	1495	1290	1170	1030	910	790	670	600	490	390	
					29-1/2	2-6 CL	-	2240	1930	1750	1550	1370	1190	1010	900	740	580	
1"	S45	4-1/4" SQ.	50	.032	19-1/2	1	-		1425	1230	1110	980	870	760	640	570	470	370
					25-1/2	1	-	1515	1300	1180	1050	920	800	680	610	500	390	
					25-1/2	2-6 CL	-	2190	1880	1710	1510	1340	1160	990	880	720	570	
					29-1/2	1	-	1570	1350	1220	1080	960	830	710	630	520	410	
					29-1/2	2-6 CL	-	2295	1970	1790	1580	1400	1220	1030	920	760	600	
1-1/4"	S143	4-1/4" SQ.	32	.032	19-1/2	1	-		1120	960	870	770	680	590	500	450	370	290
					25-1/2	1	-	1190	1020	930	820	730	630	540	480	390	310	
					25-1/2	2-6 CL	-	1780	1530	1390	1230	1090	940	800	710	590	460	
					29-1/2	1	-	1250	1080	980	860	760	660	560	500	410	330	
					29-1/2	2-6 CL	-	1880	1620	1470	1300	1150	1000	850	750	620	490	
1-1/4"	S144	4-1/4" SQ.	40	.032	19-1/2	1	-		1360	1170	1060	940	830	720	610	540	450	350
					25-1/2	1	-	1470	1260	1150	1010	900	780	660	590	490	380	
					25-1/2	2-6 CL	-	2090	1800	1630	1440	1270	1110	940	840	690	540	
					29-1/2	1	-	1560	1340	1220	1080	950	830	700	620	510	410	
					29-1/2	2-6 CL	-	2240	1930	1750	1550	1370	1190	1010	900	740	580	
1-1/4"	S145	4-1/4" SQ.	50	.032	19-1/2	1	-		1415	1220	1100	980	860	750	640	570	470	370
					25-1/2	1	-	1505	1290	1170	1040	920	800	680	600	500	390	
					25-1/2	2-6 CL	-	2150	1850	1680	1480	1310	1140	970	860	710	560	
					29-1/2	1	-	1555	1340	1210	1070	950	820	700	620	510	400	
					29-1/2	2-6 CL	-	2250	1940	1760	1550	1370	1190	1010	900	740	590	
2"	S242	4-1/4" SQ.	25	.032	19-1/2	1	-		1050	900	820	720	640	560	470	420	350	270
					25-1/2	1	-	1110	950	870	770	680	590	500	440	370	290	
					25-1/2	2-6 CL	-	1670	1440	1300	1150	1020	890	750	670	550	430	
					29-1/2	1	-	1170	1010	910	810	710	620	530	470	390	300	
					29-1/2	2-6 CL	-	1770	1520	1380	1220	1080	940	800	710	580	460	
2"	S243	4-1/4" SQ.	32	.032	19-1/2	1	-		1220	1050	950	840	740	650	550	490	400	320
					25-1/2	1	-	1290	1110	1010	890	790	680	580	520	430	340	
					25-1/2	2-6 CL	-	1930	1660	1510	1330	1180	1020	870	770	640	500	
					29-1/2	1	-	1360	1170	1060	940	830	720	610	540	450	350	
					29-1/2	2-6 CL	-	2040	1750	1590	1410	1240	1080	920	820	670	530	
2"	S243	4-1/4" SQ.	32	.032	19-1/2	1	-		2350	2020	1830	1620	1430	1250	1060	940	780	610

DESIGN DATA

COMMERCIAL FINNED TUBE RATING CORRECTION CHARTS

CATALOG FINNED TUBE RATINGS ARE BASED UPON THE FOLLOWING CONDITIONS:

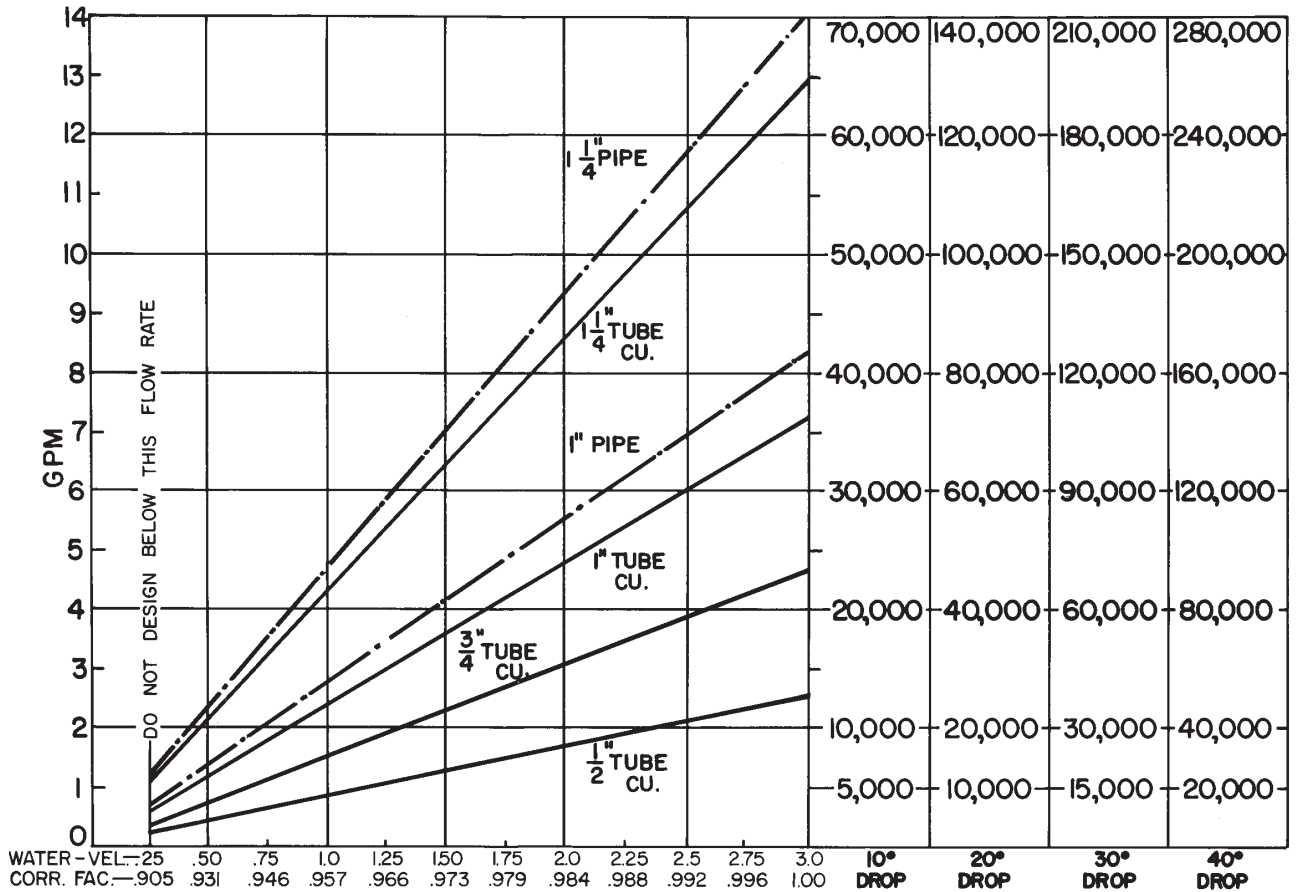
- 215°F AVERAGE WATER OR STEAM TEMPERATURE
- 65°F ENTERING AIR TEMPERATURE
- 3 FEET PER SECOND WATER FLOW RATE
- CATALOG MOUNTING HEIGHT

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.

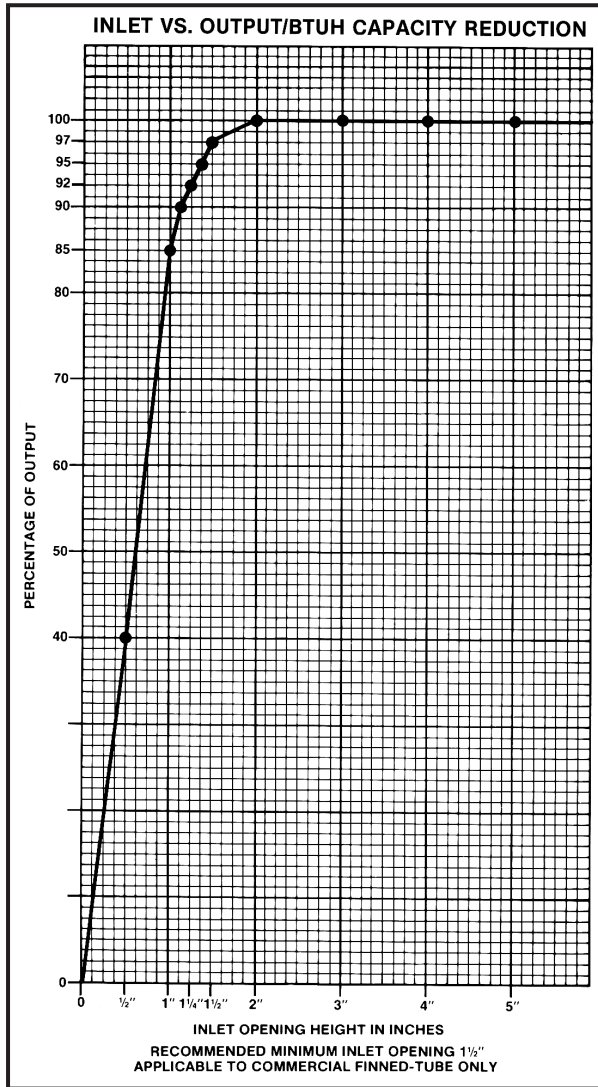


1/2" COP. ALUM.	1,80	2,33	5,33	9,16					
3/4" COP. ALUM.	.5	1,5	3,16	5,4	6,25				
1" COP. ALUM.	.233	.41	.83	1,45	2,16	2,83	3,66		
1" PIPE	.37	.79	1,3	2,00	2,70	3,70	4,80		
1 1/4" COP. ALUM.	.16	.33	.55	.79	1,08	1,33	1,8	2,25	2,26
1 1/4" PIPE	.09	.18	.31	.5	.70	1,0	1,1	1,3	1,6
								1,8	2,58
					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

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

DESIGN DATA

INLET AIR CORRECTION FACTOR



GUARANTEED WORKING PRESSURES

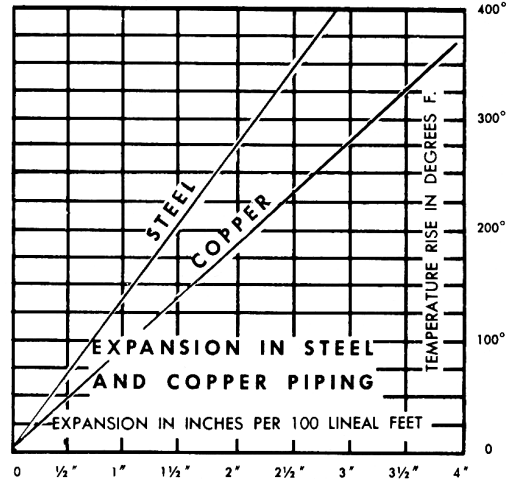
- 1" IPS — 780 AT TEMPERATURES UP TO 650°F.
 - 1 1/4" IPS — 660 AT TEMPERATURES UP TO 650°F.
 - 2" IPS — 405 AT TEMPERATURES UP TO 650°F.
 - 1 1/4" CU — 194 AT TEMPERATURES UP TO 300°F.
 - 1" CU — 204 AT TEMPERATURES UP TO 300°F.
 - 3/4" CU — 218 PSI AT TEMPERATURES UP TO 300°F.
- MAXIMUM PRESSURES AT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