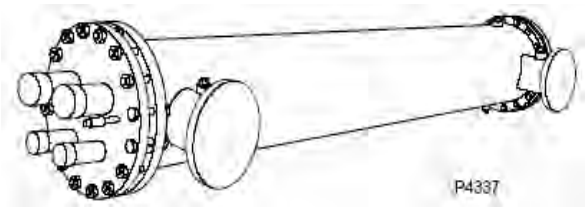
10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Build your system on the best...10RT Series DX coolers

Choose Carrier 10RT Series directexpansion(DX) shell-and-tube liquid coolers for built-up systems in office buildings,hospitals, or any commercial applications where unique cooling requirements or space limitations dictate the need for separate location of the cooler from the condenser, compressors, or air-handling components.



Features/Benefits

- Fifteen models, 71/2 through 350 tons normally carried in stock or with short shipping lead times.
- High performance tubes providing more economical cooling.
- Serviceable through-tube design and removable heads.
- Controlled refrigerant velocities for positive oil return and low refrigerant pressure drop.

With 10RT Series coolers, dimensional restrictions are no problem, since you select from a large assortment of shell diameters and lengths. And these compact coolers are available in 71/2 through 350 nominal tons capacity range. (Based on 44 F leaving water temperature; R-22 at 35 F evaporator temperature; 0.0001 fouling factor.) The 10RT is designed for optimum heat transfer rates and features rolled-in tubes and removable heads. Shell-side baffling is selected for high operating efficiency and minimal fluid pressure drops.

Model Number Nomenclature

10RT 070 2 D 2 2 7 A B

Product Series
10RT = Direct Expansion Liquid Coolers

Nominal Tube Length (ft)
040 - 4
050 - 5
060 - 6
070 - 7
080 - 8
090 - 9
100 - 10
110 - 11
120 - 12

Baffle Spacing
1 – Low Flow Rate
2
3
4
5 } Medium Flow Rate
6 – High Flow Rate

Nominal Shell OD (in.)
A – 5
B – 6
C – 8
D – 10
E – 12
F – 14
G – 16
H – 18
J – 20
L – 24

B - Mounting Saddle

A – Lifting Lugs

Packaging
7 - Skidded

Refrigerant Passes
2 – Two-Pass Cooler
4 – Four-Pass Cooler

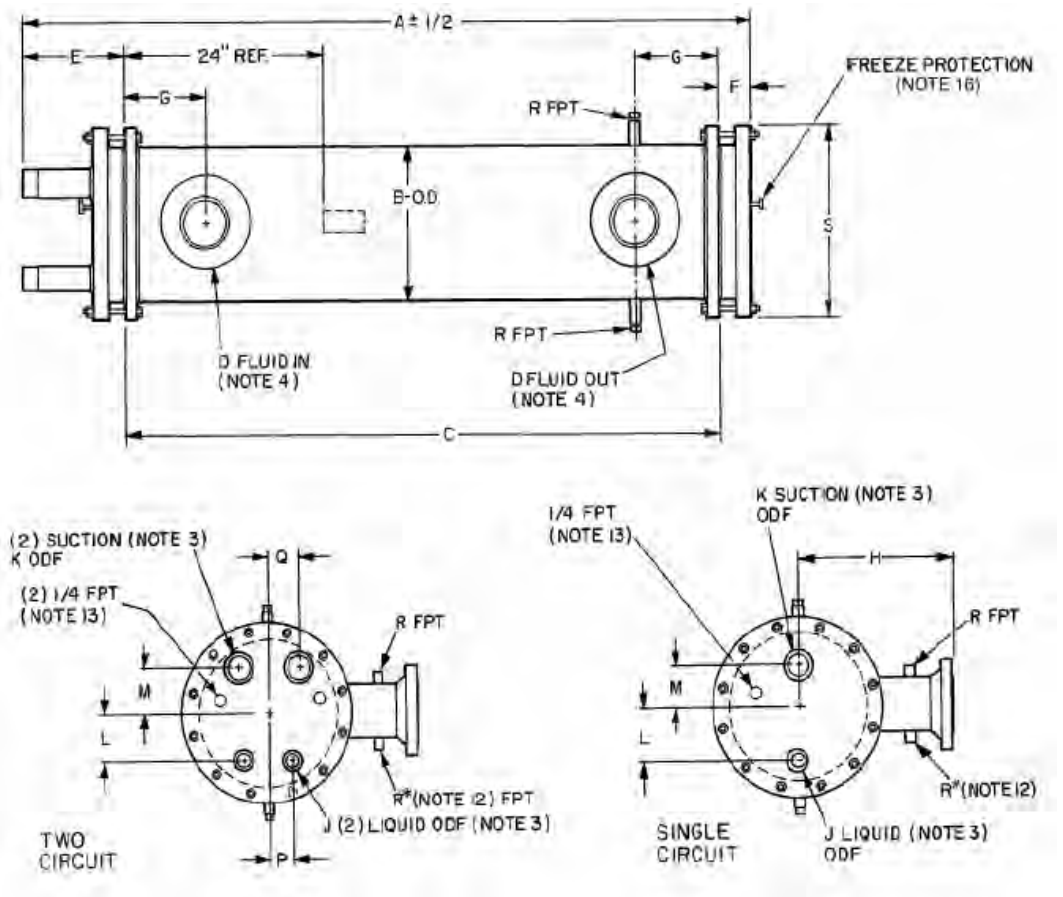
Refrigerant Circuits*
Standard No. Shell OD (in.) of Circuits
1 – 5, 6
2 – 8 through 24

***CIRCUIT AVAILABILITY**

LETTER DESIGNATOR	SHELL OD (in.)	NO. OF CIRCUITS			
		1	2	3	4
A	5	Std	NA	NA	NA
B	6	Std	NA	NA	NA
C	8	SO	Std	NA	NA
D	10	SO	Std	SO	NA
E	12	SO	Std	SO	SO
F	14	SO	Std	SO	SO
G	16	SO	Std	SO	SO
H	18	SO	Std	SO	SO
J	20	SO	Std	SO	SO
L	24	SO	Std	SO	SO

LEGEND
NA — Not Available
SO — Special Order
Std — Standard

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)



NOTES:

1. Constructed and tested in accordance with ASME code Section VIII for unfired pressure vessels.
2. Maximum working pressures: 200 psi at 100 F tube side; 150 psi at 120 F shell side.
3. Connections J and K are steel welded to head and bored to ODS of copper tubing.
4. Fluid connections are MPT through 3 inches. Connections larger than 3 in. terminate in 150 lb flanges.
5. Shell baffles: hot-rolled steel, terne plate.
6. Heads: ASME specification SA-285, grade C, or cast steel heads, ASME specification SA-216, grade WCA or WCB.
7. Tube sheets: flange quality carbon steel, ASME specification SA-285 grade C.
8. Shell: Steel pipe shell, ASME specification SA-53, grade A or B.
9. Tubes: 3/4-in. OD seamless copper tubes per ASME specifications with internal and external enhanced surface.
10. One circuit standard with 5-in. and 6-in. pipe shell (optional for all others).Two circuits standard with 8-in. through 24-in. pipe shells.
11. Insulation: 3/4-in. Armaflex standard. Double layer of Armaflex available on special order.
12. Fitting R* used only on 3-in. MPT or smaller fluid connections.Fluid connections larger than 3-in. have both R and R*.
13. External equalizer connection.
14. Add 11/2-in. to dimension B; 3/4-in. to dimension F; and 11/2-in. to dimension S to take into account the standard 3/4-in. Armaflex insulation.
15. Finish: Grey enamel paint.
16. 1/4-FPT freeze protection connection.
17. Tube wall thickness: 0.028-in. finned; 0.056-in. plain.

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Dimensions — 2-Pass (in.)

UNIT 10RT	A	B	C	D	E	F	G	H	J (ODF)	K (ODF)	L	M	P	Q	R	S
0401-A-127	55-3/4	5-9/16	47-5/8	2	6-13/16	1-5/16	3-3/16	8-5/8	7/8	1-3/8	1-1/4	1-3/8	—	—	3/4	8-1/2
0501-A-127	67-3/4	5-9/16	59-5/8	2	6-13/16	1-5/16	3-3/16	8-5/8	7/8	1-3/8	1-1/4	1-3/8	—	—	3/4	8-1/2
0501-B-127	67-3/4	6-5/8	59-5/8	2-1/2	6-13/16	1-5/16	3-7/16	9-3/16	1-1/8	2-1/8	1-9/16	1-9/16	—	—	3/4	9-3/4
0601-B-127	79-3/4	6-5/8	71-5/8	2-1/2	6-13/16	1-5/16	3-7/16	9-3/16	1-1/8	2-1/8	1-9/16	1-9/16	—	—	3/4	9-3/4
0401-C-227	56	8-5/8	47-5/8	3	6-15/16	1-7/16	3-7/8	10-3/16	1-3/8	2-1/8	2	1-5/8	1-1/2	1-3/4	3/4	11-3/4
0501-C-227	68	8-5/8	59-5/8	3	6-15/16	1-7/16	3-7/8	10-3/16	1-3/8	2-1/8	2	1-5/8	1-1/2	1-3/4	3/4	11-3/4
0602-C-227	80	8-5/8	71-5/8	3	6-15/16	1-7/16	3-7/8	10-3/16	1-3/8	2-1/8	2	1-5/8	1-1/2	1-3/4	3/4	11-3/4
0702-C-227	92	8-5/8	83-5/8	3	6-15/16	1-7/16	3-7/8	10-3/16	1-3/8	2-1/8	2	1-5/8	1-1/2	1-3/4	3/4	11-3/4
0503-D-227	69	10-3/4	59-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-3/8	2-5/8	2-3/4	1-3/4	2	2-1/2	3/4	14-3/8
0604-D-227	81	10-3/4	71-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-3/8	2-5/8	2-3/4	1-3/4	2	2-1/2	3/4	14-3/8
0702-D-227	93	10-3/4	83-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-3/8	2-5/8	2-3/4	1-3/4	2	2-1/2	3/4	14-3/8
0704-D-227	93	10-3/4	83-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-3/8	2-5/8	2-3/4	1-3/4	2	2-1/2	3/4	14-3/8
0804-D-227	105	10-3/4	95-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-3/8	2-5/8	2-3/4	1-3/4	2	2-1/2	3/4	14-3/8
0904-D-227	117	10-3/4	107-5/8	5	7-7/16	1-15/16	5-1/16	11-5/8	1-3/8	2-5/8	2-3/4	1-3/4	2	2-1/2	3/4	14-3/8
0804-E-227	105-1/2	12-3/4	95-5/8	5	7-11/16	2-3/16	5-3/4	12-5/8	1-5/8	2-5/8	3-1/4	1-3/4	2-1/2	2-3/4	3/4	16-3/8
0806-E-227	105-1/2	12-3/4	95-5/8	6	7-11/16	2-3/16	5-3/4	12-5/8	1-5/8	2-5/8	3-1/4	1-3/4	2-1/2	2-3/4	3/4	16-3/8
1004-F-227	130-1/2	14	119-5/8	6	8-3/16	2-11/16	5-3/4	13-1/4	1-5/8	3-1/8	3-3/4	3	2-5/8	2-7/8	3/4	17-1/2
1104-F-227	142-1/2	14	131-5/8	6	8-3/16	2-11/16	5-3/4	13-1/4	1-5/8	3-1/8	3-3/4	3	2-5/8	2-7/8	3/4	17-1/2
1004-G-227	131-1/2	16	119-5/8	8	8-11/16	3-3/16	7-1/16	14-1/4	2-1/8	3-1/8	4	3	3	3-1/4	3/4	19-1/2
1104-G-227	143-1/2	16	131-5/8	8	8-11/16	3-3/16	7-1/16	14-1/4	2-1/8	3-1/8	4	3	3	3-1/4	3/4	19-1/2
0903-H-227	119-1/2	18	107-5/8	8	8-11/16	3-3/16	7-1/16	15-1/4	2-1/8	3-5/8	4-3/4	3-1/2	3-1/4	3-3/4	3/4	21-1/2
1003-H-227	131-1/2	18	119-5/8	8	8-11/16	3-3/16	7-1/16	15-1/4	2-1/8	3-5/8	4-3/4	3-1/2	3-1/4	3-3/4	3/4	21-1/2
1205-H-227	155-1/2	18	143-5/8	8	8-11/16	3-3/16	7-1/16	15-1/4	2-1/8	3-5/8	4-3/4	3-1/2	3-1/4	3-3/4	3/4	21-1/2
1003-J-227	132-1/2	20	119-5/8	8	9-3/16	3-11/16	8-3/8	16-1/4	2-1/8	3-5/8	5	4-1/4	3-1/2	4-3/8	3/4	23-1/2
1104-J-227	144-1/2	20	131-5/8	10	9-3/16	3-11/16	8-3/8	16-1/4	2-1/8	3-5/8	5	4-1/4	3-1/2	4-3/8	3/4	23-1/2
1204-J-227	156-1/2	20	143-5/8	10	9-3/16	3-11/16	8-3/8	16-1/4	2-1/8	3-5/8	5	4-1/4	3-1/2	4-3/8	3/4	23-1/2
1206-J-227	155-1/2	20	143-5/8	10	8-11/16	3-11/16	8-3/8	16-1/4	2-1/8	3-5/8	5	4-1/4	3-1/2	4-3/8	3/4	23-1/2
0902-L-227	120-1/2	24	107-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-5/8	4-1/8	6-1/4	3-5/8	4-3/4	4-7/8	3/4	27-1/2
1002-L-227	132-1/2	24	119-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-5/8	4-1/8	6-1/4	3-5/8	4-3/4	4-7/8	3/4	27-1/2
1103-L-227	144-1/2	24	131-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-5/8	4-1/8	6-1/4	3-5/8	4-3/4	4-7/8	3/4	27-1/2
1203-L-227	156-1/2	24	143-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-5/8	4-1/8	6-1/4	3-5/8	4-3/4	4-7/8	3/4	27-1/2

Dimensions — 4 Pass (in.)

UNIT 10RT	A	B	C	D	E	F	G	H	J (ODF)	K (ODF)	L	M	P	Q	R	S
0401-A-147	56-3/8	5-9/16	47-5/8	2	7-7/16	1-5/16	3-3/16	8-5/8	5/8	1-1/8	1-3/4	1-3/4	—	—	3/4	8-1/2
0501-A-147	68-3/8	5-9/16	59-5/8	2	7-7/16	1-5/16	3-3/16	8-5/8	5/8	1-1/8	1-3/4	1-3/4	—	—	3/4	8-1/2
0501-B-147	67-3/4	6-5/8	59-5/8	2-1/2	6-13/16	1-5/16	3-7/16	9-3/16	7/8	1-3/8	2-1/8	2-1/8	—	—	3/4	9-3/4
0601-B-147	79-3/4	6-5/8	71-5/8	2-1/2	6-13/16	1-5/16	3-7/16	9-3/16	7/8	1-3/8	2-1/8	2-1/8	—	—	3/4	9-3/4
0401-C-247	56-5/8	8-5/8	47-5/8	3	7-9/16	1-7/16	3-7/8	10-3/16	1-1/8	1-3/8	3	3	1-25/64	1-25/64	3/4	11-3/4
0501-C-247	68-5/8	8-5/8	59-5/8	3	7-9/16	1-7/16	3-7/8	10-3/16	1-1/8	1-3/8	3	3	1-25/64	1-25/64	3/4	11-3/4
0602-C-247	80-5/8	8-5/8	71-5/8	3	7-9/16	1-7/16	3-7/8	10-3/16	1-1/8	1-3/8	3	3	1-25/64	1-25/64	3/4	11-3/4
0702-C-247	92-5/8	8-5/8	83-5/8	3	7-9/16	1-7/16	3-7/8	10-3/16	1-1/8	1-3/8	3	3	1-25/64	1-25/64	3/4	11-3/4
0503-D-247	69	10-3/4	59-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-1/8	2-1/8	4-1/16	3	1-1/8	2	3/4	14-3/8
0604-D-247	81	10-3/4	71-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-1/8	2-1/8	4-1/16	3	1-1/8	2	3/4	14-3/8
0702-D-247	93	10-3/4	83-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-1/8	2-1/8	4-1/16	3	1-1/8	2	3/4	14-3/8
0704-D-247	93	10-3/4	83-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-1/8	2-1/8	4-1/16	3	1-1/8	2	3/4	14-3/8
0804-D-247	105	10-3/4	95-5/8	4	7-7/16	1-15/16	4-1/2	11-5/8	1-1/8	2-1/8	4-1/16	3	1-1/8	2	3/4	14-3/8
0904-D-247	117	10-3/4	107-5/8	5	7-7/16	1-15/16	5-1/16	11-5/8	1-1/8	2-1/8	4-1/16	3	1-1/8	2	3/4	14-3/8
0804-E-247	105-1/2	12-3/4	95-5/8	5	7-11/16	2-3/16	5-3/4	12-5/8	1-3/8	2-1/8	4-3/8	3-1/2	2	2-1/2	3/4	16-3/8
0806-E-247	105-1/2	12-3/4	95-5/8	6	7-11/16	2-3/16	5-3/4	12-5/8	1-3/8	2-1/8	4-3/8	3-1/2	2	2-1/2	3/4	16-3/8
1004-F-247	130-1/2	14	119-5/8	6	8-3/16	2-11/16	5-3/4	13-1/4	1-3/8	2-5/8	5	4-1/8	1-7/8	2-5/8	3/4	17-1/2
1104-F-247	142-1/2	14	131-5/8	6	8-3/16	2-11/16	5-3/4	13-1/4	1-3/8	2-5/8	5	4-1/8	1-7/8	2-5/8	3/4	17-1/2
1004-G-247	131-1/2	16	119-5/8	8	8-11/16	3-3/16	7-1/16	14-1/4	1-5/8	2-5/8	6-1/4	3-7/8	1-5/8	3	3/4	19-1/2
1104-G-247	143-1/2	16	131-5/8	8	8-11/16	3-3/16	7-1/16	14-1/4	1-5/8	2-5/8	6-1/4	3-7/8	1-5/8	3	3/4	19-1/2
0903-H-247	119-1/2	18	107-5/8	8	8-11/16	3-3/16	7-1/16	15-1/4	1-5/8	2-5/8	6-3/8	4-1/2	2-5/8	3-3/8	3/4	21-1/2
1003-H-247	131-1/2	18	119-5/8	8	8-11/16	3-3/16	7-1/16	15-1/4	1-5/8	2-5/8	6-3/8	4-1/2	2-5/8	3-3/8	3/4	21-1/2
1205-H-247	155-1/2	18	143-5/8	8	8-11/16	3-3/16	7-1/16	15-1/4	1-5/8	2-5/8	6-3/8	4-1/2	2-5/8	3-3/8	3/4	21-1/2
1003-J-247	132-1/2	20	119-5/8	8	9-3/16	3-11/16	8-3/8	16-1/4	1-5/8	3-1/8	7-1/4	5	3-5/16	4	3/4	23-1/2
1104-J-247	144-1/2	20	131-5/8	10	9-3/16	3-11/16	8-3/8	16-1/4	1-5/8	3-1/8	7-1/4	5	3-5/16	4	3/4	23-1/2
1204-J-247	156-1/2	20	143-5/8	10	9-3/16	3-11/16	8-3/8	16-1/4	1-5/8	3-1/8	7-1/4	5	3-5/16	4	3/4	23-1/2
1206-J-247	155-1/2	20	143-5/8	10	8-11/16	3-11/16	8-3/8	16-1/4	1-5/8	3-1/8	7-1/4	5	3-5/16	4	3/4	23-1/2
0902-L-247	120-1/2	24	107-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-1/8	3-5/8	8-3/4	6-1/4	3-3/4	4-3/4	3/4	27-1/2
1002-L-247	132-1/2	24	119-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-1/8	3-5/8	8-3/4	6-1/4	3-3/4	4-3/4	3/4	27-1/2
1103-L-247	144-1/2	24	131-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-1/8	3-5/8	8-3/4	6-1/4	3-3/4	4-3/4	3/4	27-1/2
1203-L-247	156-1/2	24	143-5/8	10	9-3/16	3-11/16	8-9/16	18-1/4	2-1/8	3-5/8	8-3/4	6-1/4	3-3/4	4-3/4	3/4	27-1/2

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Water Ratings — R-22

6 F WATER TEMPERATURE RANGE; 4 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	—	—	2.69	1.05	4.09	2.18	5.37	3.74	6.66	5.69	8.19	8.59	6.33	5.18
0501-A	2.24	0.99	3.67	2.23	5.12	4.32	6.58	7.08	8.17	10.89	6.52	7.08	8.20	10.89	—	—
0501-B	3.18	0.92	5.11	1.80	7.63	4.07	9.86	6.79	12.08	10.06	9.52	6.38	12.11	10.07	—	—
0601-B	5.63	2.79	8.17	5.87	10.51	9.67	7.79	5.33	10.90	10.37	—	—	—	—	—	—
0401-C	—	—	—	—	8.03	1.18	11.76	2.56	15.11	4.20	18.85	6.42	14.18	3.71	18.81	6.42
0501-C	6.59	1.09	10.24	2.40	14.42	4.81	18.54	7.85	13.24	4.05	18.05	7.38	—	—	—	—
0602-C	9.49	1.29	13.86	2.77	18.17	4.81	21.84	6.85	19.02	5.21	26.14	9.71	—	—	—	—
0702-C	13.65	3.12	17.62	5.14	21.42	7.59	21.40	7.59	—	—	—	—	—	—	—	—
0503-D	—	—	—	—	18.61	1.34	24.34	2.27	30.78	3.66	36.40	5.07	31.66	3.90	39.27	5.84
0604-D	—	—	16.99	0.96	23.71	1.52	29.52	2.32	35.26	3.28	31.87	2.69	42.97	4.91	—	—
0702-D	20.02	2.85	26.69	5.08	32.63	7.62	31.92	7.32	42.59	12.70	—	—	—	—	—	—
0704-D	16.67	1.01	23.34	1.69	29.40	2.66	26.61	2.21	37.26	4.30	—	—	—	—	—	—
0804-D	21.48	1.64	27.66	2.68	27.47	2.69	38.34	5.15	—	—	—	—	—	—	—	—
0904-D	25.06	2.70	25.84	2.89	37.99	6.16	50.16	10.53	62.38	15.91	—	—	—	—	—	—
0804-E	33.82	2.45	43.22	3.94	42.08	3.74	60.61	7.69	—	—	—	—	—	—	—	—
0806-E	26.99	1.30	37.34	2.38	45.78	3.44	46.94	3.61	65.56	6.76	84.26	10.82	102.82	15.66	—	—
1004-F	47.06	2.64	58.71	4.07	73.76	6.29	90.98	9.57	106.21	12.81	—	—	—	—	—	—
1104-F	52.60	3.74	70.01	6.55	86.25	9.76	102.57	13.60	—	—	—	—	—	—	—	—
1004-G	58.90	2.44	68.31	3.26	87.40	5.26	109.41	8.27	128.83	11.26	150.88	15.44	—	—	—	—
1104-G	61.88	3.16	82.55	5.54	103.33	8.56	124.27	12.20	147.95	17.38	—	—	—	—	—	—
0903-H	74.18	2.72	88.38	3.79	97.48	4.64	119.33	6.81	144.68	9.94	—	—	—	—	—	—
1003-H	80.75	3.71	93.28	4.96	117.17	7.66	144.82	11.65	—	—	—	—	—	—	—	—
1206-H	83.38	1.82	113.41	3.35	143.59	5.32	171.52	7.50	—	—	—	—	—	—	—	—
1003-J	100.08	3.30	116.03	4.41	150.12	7.35	180.40	10.36	—	—	—	—	—	—	—	—
1104-J	101.36	2.41	133.70	4.10	170.94	6.69	203.91	9.32	241.33	13.01	—	—	—	—	—	—
1204-J	120.62	4.04	158.17	6.88	193.50	10.10	233.48	14.73	—	—	—	—	—	—	—	—

8 F WATER TEMPERATURE RANGE; 3 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	2.20	0.71	3.31	0.97	4.71	1.63	6.00	2.63	7.55	4.20	8.83	5.69	10.10	7.36
0501-A	2.87	0.95	4.48	1.88	6.11	3.50	7.57	5.34	8.99	7.52	7.39	5.06	9.78	8.89	11.51	11.97
0501-B	4.15	0.90	6.38	1.58	8.89	3.12	11.14	4.88	13.33	7.01	15.24	9.07	14.01	7.67	—	—
0601-B	7.02	2.42	9.70	4.68	12.02	7.22	13.97	9.67	13.22	8.66	—	—	—	—	—	—
0401-C	—	—	6.61	0.77	9.90	1.09	13.65	1.94	17.41	3.17	20.78	4.45	24.47	6.12	27.43	7.54
0501-C	8.97	1.11	13.14	2.26	16.86	3.68	20.97	5.72	24.50	7.73	21.66	6.03	27.63	9.63	—	—
0602-C	12.01	1.18	16.09	2.09	20.38	3.39	17.44	2.49	23.33	4.45	30.48	7.52	—	—	—	—
0702-C	16.24	2.48	20.12	3.80	18.87	3.34	25.77	6.21	34.12	10.77	—	—	—	—	—	—
0503-D	—	—	14.92	0.79	20.61	1.03	27.10	1.59	33.53	2.45	38.44	3.19	35.47	2.74	44.69	4.35
0604-D	13.05	0.66	19.29	0.84	26.00	1.10	31.75	1.52	27.20	1.12	36.30	1.99	47.49	3.40	56.77	4.79
0702-D	24.01	2.31	30.53	3.78	27.95	3.16	38.63	6.04	50.45	10.18	61.29	14.68	—	—	—	—
0704-D	19.94	0.92	26.55	1.25	31.99	1.79	31.86	1.80	42.56	3.17	53.36	4.94	—	—	—	—
0804-D	25.17	1.29	30.61	1.88	33.56	2.27	45.77	4.18	57.97	6.66	—	—	—	—	—	—
0904-D	28.13	1.92	31.27	2.35	44.97	4.86	58.59	8.25	69.47	11.24	82.68	15.92	—	—	—	—
0804-E	38.67	1.80	47.06	2.62	51.44	3.16	70.18	5.80	88.81	9.16	—	—	—	—	—	—
0806-E	30.55	1.06	40.82	1.66	48.21	2.22	53.85	2.74	70.53	4.50	89.37	7.00	108.16	10.01	126.64	13.45
1004-F	52.75	1.90	67.80	3.05	85.26	4.79	100.46	6.54	117.73	8.98	132.80	11.30	147.73	13.87	—	—
1104-F	63.66	3.10	80.11	4.79	98.73	7.29	115.03	9.76	130.97	12.58	—	—	—	—	—	—
1004-G	62.42	1.57	82.98	2.75	102.34	4.10	121.73	5.71	143.91	7.99	165.93	10.63	185.09	13.09	—	—
1104-G	76.24	2.72	98.76	4.51	119.65	6.52	140.64	8.89	161.51	11.62	181.96	14.68	—	—	—	—
0903-H	83.38	1.92	89.38	2.22	114.53	3.62	136.62	5.04	162.15	7.05	187.84	9.37	213.58	12.01	—	—
1003-H	84.43	2.30	112.03	4.04	136.20	5.84	164.03	8.43	191.93	11.46	—	—	—	—	—	—
1206-H	100.05	1.49	132.36	2.60	160.71	3.75	189.06	5.12	216.50	6.70	—	—	—	—	—	—
1003-J	104.93	2.05	139.37	3.59	173.80	5.55	208.49	7.92	243.33	10.69	—	—	—	—	—	—
1104-J	123.80	2.03	159.11	3.29	196.59	5.00	234.05	7.06	267.16	9.04	303.48	11.71	—	—	—	—
1204-J	145.33	3.29	185.85	5.37	221.35	7.48	261.01	10.45	295.33	13.29	—	—	—	—	—	—

LEGEND
Cap. — Capacity (Tons)
EFT — Entering Fluid Temperature
LFT — Leaving Fluid Temperature
PD — Pressure Drop (PSIG)
SST — Refrigerant Saturated Suction Temperature

NOTES:
1. Ratings based on 35 F saturated suction temperature. Fouling factor is 0.0001.
2. Shaded selections are 2-pass. All other selections are 4-pass.
3. LTD = LFT – SST
4. Range = EFT – LFT

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Water Ratings - R22 (contd)

10 F WATER TEMPERATURE RANGE; 2.4 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	2.53	0.68	3.79	0.90	5.06	1.19	6.62	2.05	7.92	2.92	9.43	4.21	10.69	5.38
0501-A	3.66	0.98	5.12	1.55	6.74	2.71	8.19	3.99	9.61	5.53	8.61	4.41	10.67	6.75	13.09	10.07
0501-B	5.10	0.89	7.61	1.46	9.86	2.45	12.09	3.68	14.06	4.95	12.73	4.09	15.90	6.38	19.11	9.07
0601-B	8.50	2.31	10.85	3.76	13.15	5.56	11.68	4.33	15.52	7.71	19.37	11.86	—	—	—	—
0401-C	—	—	8.02	0.75	11.35	0.99	15.12	1.51	18.90	2.37	22.60	3.43	25.90	4.45	24.46	4.00
0501-C	10.80	1.07	15.01	1.87	19.16	3.08	22.78	4.36	20.35	3.49	26.26	5.78	31.26	7.95	—	—
0602-C	13.87	1.08	18.18	1.73	21.88	2.49	20.41	2.17	27.60	4.02	33.58	5.84	40.82	8.51	—	—
0702-C	18.01	1.94	21.85	2.87	23.12	3.22	30.80	5.74	37.80	8.43	—	—	—	—	—	—
0503-D	—	—	16.84	0.73	23.31	0.94	29.00	1.16	34.66	1.66	40.26	2.25	39.20	2.15	48.52	3.30
0604-D	14.79	0.63	21.51	0.77	27.27	0.93	32.97	1.11	29.59	1.00	40.68	1.61	49.98	2.40	61.27	3.60
0702-D	26.75	1.83	33.18	2.86	34.48	3.10	45.27	5.32	56.07	8.04	69.00	12.11	—	—	—	—
0704-D	22.01	0.83	28.06	1.02	33.94	1.30	34.77	1.36	47.78	2.58	58.67	3.84	69.47	5.33	—	—
0804-D	26.91	1.05	27.45	1.08	38.27	1.88	51.82	3.45	64.08	5.25	73.81	6.80	—	—	—	—
0904-D	25.92	1.13	38.07	2.25	51.82	4.16	64.10	6.30	76.11	8.81	86.81	11.25	—	—	—	—
0804-E	42.18	1.39	42.11	1.39	60.68	2.83	79.50	4.79	98.23	7.25	116.66	10.10	—	—	—	—
0806-E	33.85	0.96	42.26	1.16	42.22	1.16	60.64	2.28	79.26	3.75	97.97	5.57	116.58	7.71	131.45	9.54
1004-F	60.30	1.58	76.67	2.51	94.19	3.76	111.47	5.26	126.53	6.69	141.56	8.29	—	—	—	—
1104-F	73.24	2.64	90.89	4.00	108.40	5.65	124.48	7.38	140.41	9.34	—	—	—	—	—	—
1004-G	72.22	1.34	94.51	2.29	114.16	3.26	136.30	4.65	155.68	6.00	175.06	7.51	196.72	9.53	—	—
1104-G	90.28	2.46	111.46	3.67	132.49	5.11	155.99	7.15	176.56	9.10	—	—	—	—	—	—
0903-H	91.50	1.50	102.53	1.86	128.10	2.87	153.67	4.10	179.25	5.54	204.80	7.19	230.36	9.04	255.79	11.09
1003-H	100.66	2.11	126.90	3.29	154.87	4.86	182.60	6.74	210.23	8.90	234.70	10.92	—	—	—	—
1206-H	116.28	1.30	144.65	1.97	176.80	2.94	204.85	3.91	232.47	5.01	—	—	—	—	—	—
1003-J	127.35	1.96	162.22	3.13	197.05	4.58	231.65	6.29	266.21	8.26	300.60	10.49	—	—	—	—
1104-J	145.77	1.81	183.80	2.84	221.27	4.10	254.15	5.32	290.95	6.99	—	—	—	—	—	—
1204-J	171.88	2.99	207.67	4.27	247.43	6.09	282.29	7.85	—	—	—	—	—	—	—	—

12 F WATER TEMPERATURE RANGE; 2 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	2.99	0.68	4.12	0.82	5.66	1.11	6.95	1.57	8.49	2.37	9.78	3.12	11.05	3.99
0501-A	4.09	0.91	5.71	1.36	7.33	2.24	8.63	3.06	7.40	2.25	9.81	4.01	12.21	6.26	13.96	7.96
0501-B	5.75	0.84	8.27	1.20	10.77	2.04	12.77	2.84	11.40	2.30	14.04	3.44	17.76	5.58	20.45	7.23
0601-B	9.30	1.91	11.66	3.00	13.97	4.33	13.93	4.33	17.14	6.49	21.00	9.68	24.88	13.44	—	—
0401-C	6.13	0.61	9.41	0.74	13.14	0.97	16.89	1.33	20.65	1.99	24.36	2.79	27.32	3.48	26.47	3.25
0501-C	12.56	1.04	16.76	1.63	20.47	2.41	24.56	3.52	23.88	3.36	28.83	4.82	35.82	7.38	40.93	9.36
0602-C	15.32	1.00	19.64	1.40	23.35	1.97	23.34	1.97	30.57	3.41	37.77	5.21	43.82	6.85	52.18	9.71
0702-C	19.71	1.62	18.90	1.48	27.29	3.15	34.30	4.93	41.31	7.03	49.66	10.09	—	—	—	—
0503-D	13.03	0.60	18.66	0.70	24.35	0.84	30.78	1.04	36.44	1.28	33.60	1.14	41.29	1.64	52.26	2.66
0604-D	16.43	0.61	22.67	0.71	28.44	0.82	34.16	0.96	33.90	0.96	43.06	1.25	54.25	1.99	63.65	2.70
0702-D	29.34	1.54	27.94	1.41	38.65	2.68	50.62	4.62	61.44	6.75	74.32	9.84	85.14	12.71	—	—
0704-D	23.93	0.77	29.97	0.92	29.26	0.90	39.87	1.26	50.63	2.00	63.66	3.18	74.50	4.32	85.20	5.60
0804-D	29.10	0.95	30.66	1.00	42.83	1.64	55.11	2.70	67.43	4.02	79.58	5.60	91.51	7.36	—	—
0904-D	31.01	1.13	43.21	2.03	55.54	3.30	69.24	5.13	81.35	7.06	—	—	—	—	—	—
0804-E	45.56	1.14	47.05	1.20	65.75	2.30	84.61	3.76	105.37	5.82	122.10	7.70	140.47	10.10	—	—
0806-E	35.17	0.85	44.46	1.04	46.84	1.09	65.26	1.87	79.96	2.68	98.69	3.97	117.42	5.49	136.07	7.25
1004-F	67.48	1.39	85.01	2.18	100.44	2.96	118.00	4.07	135.16	5.35	—	—	—	—	—	—
1104-F	79.87	2.18	98.80	3.31	115.40	4.42	133.77	5.98	—	—	—	—	—	—	—	—
1004-G	83.08	1.25	102.65	1.86	125.18	2.75	147.57	3.81	167.05	4.82	188.92	6.19	—	—	—	—
1104-G	99.04	2.05	123.37	3.16	144.68	4.27	165.60	5.54	—	—	—	—	—	—	—	—
0903-H	89.75	1.01	115.25	1.64	144.20	2.57	169.88	3.53	195.47	4.64	221.10	5.89	246.71	7.29	272.24	8.83
1003-H	112.72	1.83	140.99	2.83	169.20	4.04	197.12	5.45	224.90	7.08	252.49	8.90	—	—	—	—
1206-H	127.44	1.09	159.96	1.71	188.37	2.32	216.63	3.03	—	—	—	—	—	—	—	—
1003-J	144.57	1.76	179.73	2.68	214.88	3.78	249.75	5.08	284.52	6.55	319.13	8.20	—	—	—	—
1104-J	164.31	1.61	202.48	2.41	240.45	3.37	273.54	4.29	310.50	5.54	—	—	—	—	—	—
1204-J	191.94	2.61	228.16	3.60	268.20	4.99	303.23	6.31	—	—	—	—	—	—	—	—

LEGEND

Cap. — Capacity (Tons)
EFT — Entering Fluid Temperature
LFT — Leaving Fluid Temperature
PD — Pressure Drop (PSIG)
SST — Refrigerant Saturated Suction Temperature

NOTES:

1. Ratings based on 35 F saturated suction temperature. Fouling factor is 0.0001.
2. Shaded selections are 2-pass. All other selections are 4-pass.
3. LTD = LFT – SST
4. Range = EFT – LFT

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Water Ratings — R-134a

6 F WATER TEMPERATURE RANGE; 4 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	—	—	2.37	0.93	3.46	1.56	4.42	2.53	5.52	3.97	6.47	5.43	7.41	7.07
0501-A	1.94	0.87	3.06	1.55	4.19	2.90	5.31	4.68	6.33	6.66	7.16	8.42	7.97	10.37	8.60	11.96
0501-B	2.86	0.84	4.46	1.38	6.20	2.68	7.93	4.42	9.27	5.96	10.66	7.89	11.82	9.56	12.73	11.12
0601-B	4.67	1.91	6.57	3.84	8.14	5.87	9.51	8.02	10.69	10.02	12.38	13.43	—	—	—	—
0401-C	—	—	—	—	7.05	1.03	9.86	1.80	12.66	3.00	15.07	4.20	17.48	5.54	19.79	7.05
0501-C	5.70	0.94	8.69	1.74	11.68	3.17	14.39	4.82	16.81	6.47	18.92	8.10	20.29	9.36	—	—
0602-C	8.00	1.04	10.94	1.72	13.80	2.77	16.08	3.72	18.18	4.82	21.82	6.85	—	—	—	—
0702-C	10.33	1.75	13.24	2.93	15.44	3.97	18.03	5.41	23.96	9.44	—	—	—	—	—	—
0503-D	—	—	10.33	0.74	14.97	1.00	19.59	1.48	23.47	2.10	27.54	2.93	30.82	3.67	33.50	4.35
0604-D	9.11	0.64	13.67	0.80	18.20	1.02	22.60	1.38	26.03	1.82	29.04	2.23	36.18	3.50	43.21	4.91
0702-D	15.67	1.75	20.00	2.86	23.64	4.01	26.71	5.10	34.81	8.54	44.04	13.48	—	—	—	—
0704-D	13.36	0.83	17.97	1.10	21.94	1.51	25.20	2.00	31.83	3.17	39.97	4.93	—	—	—	—
0804-D	21.64	0.66	20.32	1.47	23.43	1.94	32.19	3.65	41.38	6.00	—	—	—	—	—	—
0904-D	25.08	0.94	26.05	2.18	31.18	4.15	41.36	7.33	50.04	10.54	58.56	14.27	65.65	17.65	72.60	21.37
0804-E	33.14	0.72	31.52	2.13	36.23	2.79	49.33	5.06	63.39	8.26	—	—	—	—	—	—
0806-E	32.25	0.61	28.00	1.41	33.30	1.93	41.94	2.97	54.01	4.68	69.92	7.69	82.05	10.27	94.08	13.15
1004-F	43.61	2.03	54.46	3.5	67.59	5.35	79.55	7.31	91.41	9.57	102.79	12.13	113.10	14.59	63.00	17.28
1104-F	49.38	3.31	62.39	5.17	75.19	7.45	87.72	10.12	98.76	12.78	108.74	15.30	59.72	18.03	61.47	20.96
1004-G	55.60	1.73	64.71	2.92	81.53	4.61	98.15	6.68	113.42	8.83	128.42	11.26	141.85	13.62	154.99	16.18
1104-G	61.84	2.96	76.33	4.76	92.78	6.97	109.03	9.59	123.68	12.20	137.68	15.12	150.37	17.85	78.27	20.78
0903-H	58.37	1.70	72.39	2.57	93.21	4.25	111.04	5.89	131.93	8.30	152.70	11.10	—	—	—	—
1003-H	69.66	2.47	88.67	4.49	108.03	6.51	130.55	9.56	149.89	12.39	—	—	—	—	—	—
1206-H	83.23	1.71	102.44	2.74	124.56	4.01	144.62	5.32	163.64	6.81	180.67	8.23	102.67	9.78	105.64	11.45
1003-J	86.43	2.35	110.46	3.99	138.72	6.29	163.04	8.50	191.02	11.70	—	—	—	—	—	—
1104-J	98.00	2.27	126.47	3.73	152.49	5.32	178.43	7.19	205.72	9.61	228.35	11.71	250.39	14.02	—	—
1204-J	113.30	3.60	141.25	5.50	168.77	7.79	195.63	10.45	217.62	12.70	240.42	15.57	131.95	18.25	135.91	21.12

8 F WATER TEMPERATURE RANGE; 3 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	—	—	2.84	0.85	3.80	1.11	4.90	1.75	5.99	2.63	6.94	3.53	7.86	4.57
0501-A	2.46	0.83	3.68	1.26	4.73	2.05	5.91	3.27	6.77	4.25	7.67	5.50	8.14	6.26	9.80	8.89
0501-B	3.66	0.81	5.40	1.15	7.02	1.92	8.61	2.90	10.15	4.08	11.42	5.18	11.50	5.19	14.06	7.67
0601-B	5.81	1.68	7.41	2.70	8.94	3.96	10.29	5.27	11.25	6.33	14.00	9.67	—	—	—	—
0401-C	—	—	5.67	0.70	8.46	0.94	11.28	1.32	14.08	2.08	16.49	2.84	18.82	3.71	21.10	4.64
0501-C	7.49	0.93	10.49	1.43	13.25	2.26	15.91	3.30	18.26	4.39	20.36	5.41	22.83	6.69	—	—
0602-C	9.80	0.96	12.71	1.32	15.22	1.90	17.42	2.49	19.67	3.16	24.82	5.02	30.57	7.52	36.31	10.50
0702-C	12.20	1.40	14.59	1.99	16.75	2.62	22.23	4.67	27.49	7.02	33.45	10.26	—	—	—	—
0503-D	—	—	12.60	0.71	16.86	0.86	21.46	1.08	25.24	1.38	28.94	1.82	32.26	2.26	37.23	3.04
0604-D	11.31	0.62	15.84	0.73	19.90	0.86	23.79	1.01	27.22	1.12	30.61	1.42	38.60	2.24	47.58	3.40
0702-D	18.34	1.36	22.08	1.94	25.63	2.65	32.05	4.13	41.29	6.89	50.47	10.18	58.55	13.48	—	—
0704-D	15.65	0.76	19.92	0.92	23.35	1.07	26.64	1.26	34.74	2.11	44.01	3.37	53.21	4.94	61.17	6.46
0804-D	18.44	0.91	22.13	1.09	27.62	1.53	36.83	2.69	46.07	4.19	55.11	6.01	62.81	7.71	—	—
0904-D	24.62	0.94	27.59	1.87	36.43	3.19	46.63	5.25	55.18	7.35	62.37	9.20	69.48	11.25	—	—
0804-E	28.70	1.09	34.02	1.41	42.34	2.13	58.38	4.06	72.48	6.19	84.54	8.27	97.96	11.08	—	—
0806-E	24.03	0.86	29.89	1.04	35.09	1.25	46.67	2.12	60.65	3.45	74.64	5.08	86.72	6.66	98.67	8.45
1004-F	49.83	1.70	61.99	2.56	76.19	3.87	88.01	5.12	98.66	6.35	109.18	7.71	120.21	9.42	—	—
1104-F	57.54	2.53	71.65	3.90	83.35	5.17	95.46	6.84	105.64	8.24	56.64	10.03	58.34	11.70	—	—
1004-G	60.41	1.48	75.94	2.29	92.89	3.39	109.43	4.72	123.22	5.89	136.89	7.19	151.35	8.83	—	—
1104-G	70.33	2.30	88.54	3.64	104.94	5.07	119.52	6.52	133.84	8.14	147.80	9.94	74.65	11.61	—	—
0903-H	65.99	1.23	85.33	2.02	106.46	3.11	127.37	4.44	145.41	5.67	165.81	7.41	183.42	8.96	200.91	10.65
1003-H	81.83	2.18	103.12	3.41	125.83	5.08	145.09	6.65	163.99	8.43	182.65	10.4	200.98	12.57	—	—
1206-H	93.90	1.33	116.23	2.00	137.99	2.81	157.44	3.63	176.41	4.55	96.94	5.42	99.80	6.37	102.61	7.21
1003-J	103.98	2.05	130.55	3.16	157.00	4.51	184.98	6.29	208.72	7.92	232.2	9.72	255.35	11.69	—	—
1104-J	117.08	1.83	145.75	2.79	171.97	3.82	197.25	5.00	222.01	6.34	244.65	7.63	—	—	—	—
1204-J	134.00	2.85	162.17	4.09	188.83	5.56	212.94	7.03	234.9	8.42	125.53	10.19	129.38	11.83	133.16	13.58

LEGEND

Cap. — Capacity (Tons)
EFT — Entering Fluid Temperature
LFT — Leaving Fluid Temperature
PD — Pressure Drop (PSIG)
SST — Refrigerant Saturated Suction Temperature

NOTES:

1. Ratings based on 35 F saturated suction temperature.Fouling factor is 0.0001.
2. Shaded selections are 2-pass. All other selections are 4-pass.
3. LTD = LFT – SST
4. Range = EFT – LFT

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Water Ratings — R-134a (cont)

10 F WATER TEMPERATURE RANGE; 2.4 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	2.21	0.64	3.17	0.78	4.26	1.00	5.35	1.34	6.31	1.87	7.26	2.47	8.19	3.16
0501-A	3.06	0.83	4.11	1.09	5.30	1.68	6.32	2.39	7.19	3.06	8.15	4.00	9.00	4.85	10.66	6.75
0501-B	4.45	0.80	6.06	1.04	7.67	1.46	9.25	2.14	10.78	2.95	12.07	3.69	13.33	4.52	15.9	6.38
0601-B	6.60	1.39	8.17	2.11	9.69	3.00	11.04	3.90	13.16	5.57	15.61	7.71	18.68	10.96	—	—
0401-C	—	—	7.05	0.70	9.85	0.88	12.28	1.08	15.06	1.51	17.46	2.03	19.84	2.62	22.12	3.30
0501-C	9.00	0.90	11.98	1.19	14.69	1.80	17.32	2.53	19.51	3.18	21.53	3.92	26.33	5.78	31.19	7.95
0602-C	10.95	0.87	13.82	1.08	16.33	1.40	18.54	1.80	23.19	2.84	27.79	4.02	33.51	5.84	39.19	7.94
0702-C	13.34	1.12	15.86	1.51	18.94	2.14	25.67	3.98	30.93	5.74	36.81	8.07	42.01	10.36	—	—
0503-D	9.81	0.58	14.05	0.66	18.66	0.79	22.49	0.91	26.29	1.06	30.02	1.24	31.80	1.41	39.32	2.15
0604-D	12.51	0.59	17.02	0.67	21.02	0.76	24.93	0.86	28.37	0.96	33.92	1.13	40.97	1.62	49.93	2.40
0702-D	20.08	1.11	24.02	1.49	28.03	2.02	37.33	3.60	46.56	5.65	54.62	7.68	62.65	9.98	70.6	12.56
0704-D	17.28	0.71	21.27	0.81	24.71	0.91	29.43	1.07	39.78	1.80	47.90	2.58	56.02	3.50	64.04	4.57
0804-D	19.97	0.81	23.67	0.93	32.15	1.34	41.35	2.19	50.46	3.26	58.38	4.31	67.14	5.76	73.76	6.80
0904-D	24.22	0.97	31.28	1.52	41.48	2.68	50.23	3.89	58.85	5.34	67.17	7.01	—	—	—	—
0804-E	31.07	0.95	36.43	1.11	51.27	2.05	65.31	3.28	79.26	4.80	91.30	6.29	103.12	7.93	114.79	9.72
0806-E	25.76	0.77	31.59	0.90	37.4	1.05	51.31	1.68	63.36	2.45	77.25	3.55	89.29	4.62	102.90	6.08
1004-F	55.93	1.37	69.12	2.06	82.14	2.90	94.04	3.76	105.7	4.73	116.21	5.67	—	—	—	—
1104-F	65.21	2.11	78.08	2.98	90.70	4.00	102.13	5.02	113.11	6.15	—	—	—	—	68.28	9.76
1004-G	68.42	1.21	86.70	1.94	102.19	2.65	117.57	3.48	132.55	4.40	147.25	5.44	159.76	6.29		
1104-G	80.50	1.95	98.52	2.92	113.61	3.8	128.38	4.81	143.79	6.09	—	—	—	—	87.46	9.51
0903-H	76.80	1.07	98.00	1.71	119.14	2.51	140.04	3.46	157.88	4.33	178.27	5.54	195.90	6.62	213.41	7.79
1003-H	93.92	1.83	116.89	2.83	136.47	3.78	158.56	5.15	177.46	6.40	196.09	7.78	—	—	—	—
1206-H	104.96	1.07	127.07	1.55	147.06	2.04	166.71	2.60	185.89	3.22	94.67	3.91	—	—	—	—
1003-J	119.04	1.71	145.72	2.51	174.18	3.59	200.07	4.71	225.57	5.99	249.05	7.24	—	—	—	—
1104-J	133.11	1.52	161.62	2.21	189.66	3.03	214.93	3.87	237.98	4.69	—	—	—	—	—	—
1204-J	151.02	2.33	178.80	3.23	205.72	4.27	228.20	5.14	119.42	6.26	123.21	7.48	—	—	—	—

12 F WATER TEMPERATURE RANGE; 2 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	2.53	0.63	3.48	0.73	4.58	0.90	5.66	1.11	6.62	1.43	7.57	1.87	8.51	2.37
0501-A	3.47	0.80	4.52	0.99	5.71	1.36	6.73	1.88	7.59	2.37	8.15	2.78	9.82	4.01	11.49	5.48
0501-B	5.07	0.77	6.68	0.96	8.29	1.20	9.86	1.70	11.30	2.23	11.49	2.30	14.60	3.77	17.17	5.21
0601-B	7.20	1.15	8.91	1.76	10.31	2.34	11.60	3.00	14.69	4.84	17.14	6.50	20.21	9.00	23.26	11.86
0401-C	5.41	0.58	7.99	0.68	10.80	0.82	13.22	0.97	16.01	1.19	18.74	1.65	20.80	2.00	21.67	2.19
0501-C	10.18	0.86	13.17	1.09	15.88	1.46	18.51	2.01	20.71	2.49	23.97	3.36	28.78	4.82	33.62	6.47
0602-C	12.03	0.81	14.90	0.98	17.42	1.11	19.65	1.40	24.81	2.23	30.62	3.41	36.33	4.83	40.92	6.00
0702-C	14.59	1.02	17.09	1.23	22.25	2.07	28.26	3.35	34.22	4.94	39.46	6.48	44.67	8.19	49.84	10.09
0503-D	11.18	0.57	15.03	0.63	19.64	0.72	23.84	0.82	27.95	0.95	31.65	1.07	33.79	1.14	41.30	1.64
0604-D	13.62	0.58	18.12	0.64	22.13	0.70	26.05	0.78	29.49	0.85	36.18	1.02	43.22	1.26	52.15	1.83
0702-D	21.98	1.01	25.91	1.22	32.01	1.84	41.30	3.07	50.58	4.63	58.67	6.20	66.70	7.92	74.66	9.84
0704-D	18.58	0.67	22.59	0.75	26.04	0.82	32.13	0.98	42.44	1.43	50.57	2.01	58.71	2.68	66.83	3.46
0804-D	21.46	0.75	26.07	0.87	35.24	1.12	44.43	1.76	53.57	2.56	61.51	3.33	70.43	4.40	78.02	5.39
0904-D	25.92	0.94	34.76	1.32	44.97	2.19	53.75	3.10	62.40	4.17	70.85	5.40	—	—	—	—
0804-E	33.39	0.87	41.99	1.07	56.03	1.70	70.09	2.63	84.08	3.76	97.90	5.09	108.22	6.09	121.36	7.70
0806-E	27.00	0.71	32.89	0.81	39.88	0.94	53.78	1.30	65.83	1.87	79.75	2.68	93.54	3.62	105.50	4.52
1004-F	61.60	1.17	73.86	1.63	87.96	2.32	99.92	2.96	111.68	3.68	—	—	—	—	—	—
1104-F	70.31	1.70	83.33	2.35	96.09	3.10	108.48	3.96	—	—	—	—	—	—	—	—
1004-G	75.90	1.04	94.30	1.60	109.90	2.14	125.39	2.75	140.68	3.44	155.46	4.20	—	—	—	—
1104-G	88.68	1.66	106.81	2.39	123.25	3.16	138.16	3.92	—	—	—	—	—	—	—	—
0903-H	85.53	0.92	106.86	1.41	128.19	2.01	149.41	2.72	170.18	3.53	188.04	4.25	208.23	5.25	—	—
1003-H	105.26	1.62	126.78	2.30	149.66	3.21	169.03	4.04	188.12	4.96	206.91	5.97	—	—	—	—
1206-H	113.47	0.88	135.76	1.23	157.59	1.65	177.28	2.06	—	—	—	—	—	—	—	—
1003-J	133.15	1.50	162.06	2.20	190.64	3.03	214.92	3.78	238.91	4.62	265.64	5.79	—	—	—	—
1104-J	146.00	1.27	176.83	1.86	203.04	2.41	228.86	3.03	253.69	3.73	—	—	—	—	—	—
1204-J	165.03	1.94	193.05	2.61	220.34	3.39	244.79	4.15	—	—	—	—	—	—	153.43	7.48

LEGEND

Cap. — Capacity (Tons)
EFT — Entering Fluid Temperature
LFT — Leaving Fluid Temperature
PD — Pressure Drop (PSIG)
SST — Refrigerant Saturated Suction Temperature

NOTES:

1. Ratings based on 35 F saturated suction temperature. Fouling factor is 0.0001.
2. Shaded selections are 2-pass. All other selections are 4-pass.
3. LTD = LFT – SST
4. Range = EFT – LFT

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Water Ratings - R507/440A

6 F WATER TEMPERATURE RANGE; 4 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	2.20	0.87	3.31	1.42	4.72	2.90	6.01	4.67	7.29	6.78	8.80	9.90	7.26	6.78
0501-A	2.67	1.17	4.28	3.04	5.74	5.42	7.17	8.42	5.70	5.43	7.37	8.89	—	—	—	—
0501-B	3.98	1.11	6.33	2.82	8.57	5.15	10.77	8.12	8.26	4.79	10.83	8.12	—	—	—	—
0601-B	6.59	3.83	8.93	7.04	11.07	10.73	9.35	7.69	—	—	—	—	—	—	—	—
0401-C	—	—	6.57	0.97	9.88	1.80	13.24	3.22	16.95	5.25	20.65	7.70	16.90	5.25	20.79	7.70
0501-C	8.09	1.50	12.02	3.33	16.14	6.03	19.75	8.85	15.66	5.62	—	—	—	—	—	—
0602-C	10.95	1.72	15.28	3.38	18.95	5.20	16.77	4.07	23.24	7.75	—	—	—	—	—	—
0702-C	14.56	3.53	11.95	2.39	18.00	5.41	24.87	10.09	—	—	—	—	—	—	—	—
0503-D	—	—	14.90	1.00	20.59	1.62	27.02	2.82	32.60	4.12	27.97	3.03	35.55	4.82	44.83	7.55
0604-D	—	—	19.24	1.09	25.01	1.66	—	—	28.34	2.15	38.49	3.95	—	—	—	—
0702-D	21.94	3.45	—	—	26.65	5.09	37.27	9.84	—	—	—	—	—	—	—	—
0704-D	18.64	1.14	24.68	1.89	—	—	31.93	3.16	42.64	5.59	—	—	—	—	—	—
0804-D	22.90	1.87	—	—	32.19	3.64	44.36	6.89	—	—	—	—	—	—	—	—
0904-D	—	—	31.04	4.14	43.22	7.94	55.35	12.71	67.42	18.54	—	—	—	—	—	—
0804-E	35.15	2.61	32.81	2.29	51.30	5.54	67.93	9.46	—	—	—	—	—	—	—	—
0806-E	29.32	1.51	38.53	2.52	39.70	2.67	56.18	5.06	74.87	8.67	93.34	13.14	108.24	16.99	—	—
1004-F	43.98	2.33	58.76	4.07	73.66	6.29	88.60	8.98	105.54	12.81	—	—	—	—	—	—
1104-F	52.71	3.74	69.95	6.55	85.92	9.76	101.86	13.60	—	—	—	—	—	—	—	—
1004-G	—	—	68.42	3.26	87.37	5.26	106.43	7.72	128.21	11.26	147.3	14.70	—	—	—	—
1104-G	62.05	3.16	82.57	5.54	103.09	8.56	123.64	12.20	144.11	16.46	—	—	—	—	—	—
0903-H	72.00	2.57	74.51	2.72	97.52	4.64	119.21	6.81	144.29	9.94	—	—	—	—	—	—
1003-H	69.96	2.83	93.40	4.96	117.1	7.66	141.11	10.93	—	—	—	—	—	—	—	—
1206-H	85.71	1.94	113.38	3.35	141.19	5.12	166.77	7.04	—	—	—	—	—	—	—	—
1003-J	86.96	2.51	116.20	4.41	147.92	7.08	179.96	10.36	—	—	—	—	—	—	—	—
1104-J	101.64	2.41	133.79	4.10	170.59	6.69	202.99	9.32	235.46	12.36	—	—	—	—	—	—
1204-J	120.82	4.04	157.94	6.88	192.64	10.10	227.22	13.90	—	—	—	—	—	—	—	—

8 F WATER TEMPERATURE RANGE; 3 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	2.68	0.81	3.94	1.14	5.35	2.10	6.65	3.21	8.17	4.93	6.62	3.22	8.22	4.93
0501-A	3.49	1.13	5.10	2.42	6.56	3.98	7.99	5.93	6.57	3.99	8.96	7.52	10.68	10.37	—	—
0501-B	5.10	1.10	7.34	2.10	9.59	3.58	11.80	5.46	10.14	4.08	12.74	6.38	15.93	9.81	—	—
0601-B	8.12	3.29	10.45	5.46	8.53	3.62	11.68	6.77	15.50	11.85	—	—	—	—	—	—
0401-C	5.18	0.67	8.44	0.94	11.77	1.44	15.52	2.52	18.88	3.71	22.55	5.25	19.74	4.07	24.45	6.12
0501-C	10.74	1.51	14.44	2.69	18.56	4.52	14.43	2.70	20.30	5.41	25.23	8.10	—	—	—	—
0602-C	13.47	1.47	17.48	2.49	14.57	1.73	20.44	3.40	27.58	6.21	33.59	8.95	—	—	—	—
0702-C	17.11	2.75	15.47	2.23	22.37	4.67	30.00	8.34	—	—	—	—	—	—	—	—
0503-D	—	—	16.90	0.86	23.35	1.18	29.04	1.82	24.19	1.28	31.75	2.19	41.00	3.68	48.74	5.07
0604-D	15.31	0.72	21.53	0.92	27.27	1.12	22.76	0.96	31.82	1.52	42.96	2.79	52.28	4.07	—	—
0702-D	25.39	2.58	22.69	2.06	33.34	4.48	45.15	8.22	55.92	12.33	—	—	—	—	—	—
0704-D	21.38	0.98	27.35	1.32	26.62	1.26	37.25	2.43	48.05	4.00	58.81	5.93	—	—	—	—
0804-D	—	—	27.50	1.53	39.63	3.15	51.85	5.36	62.75	7.70	—	—	—	—	—	—
0904-D	25.88	1.65	38.02	3.49	51.66	6.45	62.42	9.20	74.35	12.9	—	—	—	—	—	—
0804-E	—	—	42.17	2.13	60.78	4.38	79.45	7.41	97.95	11.07	—	—	—	—	—	—
0806-E	32.84	1.10	—	—	46.63	2.12	61.18	3.44	79.90	5.68	98.66	8.44	117.04	11.68	—	—
1004-F	52.92	1.90	67.87	3.05	85.11	4.79	100.04	6.54	114.99	8.55	—	—	—	—	—	—
1104-F	63.78	3.10	80.01	4.79	96.14	6.84	112.10	9.24	—	—	—	—	—	—	—	—
1004-G	64.12	1.67	83.10	2.75	102.27	4.10	121.39	5.71	140.58	7.59	159.71	9.71	—	—	—	—
1104-G	77.98	2.86	98.72	4.51	119.27	6.52	139.79	8.89	—	—	—	—	—	—	—	—
0903-H	68.15	1.31	89.59	2.22	114.59	3.62	136.49	5.04	161.69	7.05	186.96	9.37	212.18	12.01	—	—
1003-H	86.53	2.43	112.16	4.04	136.09	5.84	163.49	8.43	187.70	10.93	—	—	—	—	—	—
1206-H	102.41	1.57	132.24	2.60	160.04	3.75	187.58	5.12	—	—	—	—	—	—	—	—
1003-J	109.80	2.27	139.57	3.59	173.66	5.55	207.83	7.92	238.10	10.20	—	—	—	—	—	—
1104-J	126.55	2.13	159.14	3.29	196.05	5.00	228.52	6.69	—	—	—	—	—	—	—	—
1204-J	148.04	3.44	185.40	5.37	220.09	7.48	—	—	—	—	—	—	—	—	—	—

LEGEND

Cap. — Capacity (Tons)
EFT — Entering Fluid Temperature
LFT — Leaving Fluid Temperature
PD — Pressure Drop (PSIG)
SST — Refrigerant Saturated Suction Temperature

NOTES:

1. Ratings based on 35 F saturated suction temperature. Fouling factor is 0.0001.
2. Shaded selections are 2-pass. All other selections are 4-pass.
3. LTD = LFT – SST
4. Range = EFT – LFT

10RT SERIES DX COOLERS (7-1/2 to 350 Nominal Tons)

Water Ratings — R-507/404A (cont)

10 F WATER TEMPERATURE RANGE; 2.4 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	—	—	3.16	0.78	4.42	1.03	5.97	1.68	7.26	2.47	8.54	3.41	7.55	2.69	9.43	4.22
0501-A	4.28	1.10	5.74	1.95	7.33	3.23	5.74	1.95	7.79	3.61	9.85	5.77	12.26	8.89	14.68	12.63
0501-B	6.06	1.04	8.31	1.72	10.78	2.94	8.30	1.72	11.46	3.31	14.64	5.42	17.83	7.94	—	—
0601-B	9.13	2.64	11.27	4.03	10.13	3.24	13.98	6.24	17.82	10.09	—	—	—	—	—	—
0401-C	6.59	0.67	9.88	0.88	13.23	1.15	17.01	1.92	20.71	2.87	17.86	2.14	22.56	3.43	27.30	4.92
0501-C	12.60	1.31	16.75	2.35	20.36	3.48	17.97	2.71	23.89	4.82	28.88	6.82	—	—	—	—
0602-C	15.30	1.22	18.97	1.87	17.52	1.59	24.70	3.21	30.69	4.91	37.90	7.38	45.15	10.34	—	—
0702-C	12.87	1.08	19.70	2.33	27.39	4.53	34.36	7.02	42.70	10.77	—	—	—	—	—	—
0503-D	13.95	0.66	19.60	0.82	25.28	1.02	30.87	1.32	26.26	1.06	35.48	1.75	44.83	2.80	54.13	4.08
0604-D	17.07	0.67	23.70	0.83	28.89	0.98	27.12	0.93	36.20	1.28	45.46	1.99	56.73	3.09	67.89	4.43
0702-D	—	—	29.20	2.22	39.94	4.13	50.76	6.64	63.66	10.38	74.33	13.95	—	—	—	—
0704-D	23.88	0.89	—	—	30.66	1.12	42.47	2.04	53.29	3.18	64.17	4.56	74.78	6.14	—	—
0804-D	—	—	32.19	1.34	44.40	2.52	57.92	4.30	67.62	5.75	—	—	—	—	—	—
0904-D	31.17	1.52	44.83	3.13	57.09	5.02	69.04	7.35	—	—	—	—	—	—	—	—
0804-E	32.91	1.00	51.37	2.04	70.07	3.75	88.91	5.96	105.45	8.27	121.87	10.88	—	—	—	—
0806-E	35.15	0.98	35.13	0.98	51.42	1.68	69.93	2.97	88.55	4.62	103.41	6.07	121.78	8.30	—	—
1004-F	61.62	1.66	76.72	2.51	93.97	3.76	108.89	4.99	—	—	—	—	—	—	—	—
1104-F	73.33	2.64	89.57	3.87	105.65	5.33	—	—	—	—	—	—	—	—	—	—
1004-G	75.41	1.48	94.63	2.29	114.05	3.26	135.74	4.65	152.14	5.71	—	—	—	—	—	—
1104-G	90.45	2.46	111.36	3.67	131.89	5.11	152.03	6.79	—	—	—	—	—	—	—	—
0903-H	80.99	1.18	106.05	2.02	128.18	2.87	153.47	4.10	178.65	5.54	203.61	7.19	—	—	—	—
1003-H	102.77	2.21	130.49	3.53	154.66	4.86	178.64	6.40	205.59	8.52	—	—	—	—	—	—
1206-H	116.51	1.30	144.48	1.97	172.08	2.77	—	—	—	—	—	—	—	—	—	—
1003-J	127.77	1.96	162.38	3.13	196.80	4.58	226.78	5.99	260.51	7.92	—	—	—	—	—	—
1104-J	146.11	1.81	183.71	2.84	216.12	3.87	248.18	5.06	—	—	—	—	—	—	—	—
1204-J	171.92	2.99	206.87	4.27	241.04	5.76	—	—	—	—	—	—	—	—	—	—

12 F WATER TEMPERATURE RANGE; 2 GPM/TON

UNIT 10RT	LEAVING TEMPERATURE DIFFERENCE (LTD) (F)															
	5		6		7		8		9		10		11		12	
	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD	Cap.	PD
0401-A	2.37	0.61	3.49	0.73	4.89	0.96	6.30	1.29	7.58	1.87	8.86	2.54	8.21	2.20	10.10	3.33
0501-A	4.71	1.04	6.17	1.55	7.76	2.50	6.93	2.00	8.99	3.36	11.40	5.46	13.15	7.09	15.57	9.87
0501-B	6.98	1.00	9.21	1.48	11.43	2.29	10.14	1.81	12.77	2.84	16.51	4.81	19.71	6.80	22.93	9.07
0601-B	10.05	2.25	8.56	1.61	12.39	3.42	15.61	5.35	19.45	8.34	23.31	11.86	—	—	—	—
0401-C	7.56	0.66	11.28	0.85	15.01	1.11	18.37	1.56	21.72	2.18	20.63	2.00	24.58	2.80	30.13	4.20
0501-C	14.33	1.19	18.01	1.87	15.56	1.40	21.49	2.71	26.47	4.07	33.45	6.47	38.54	8.34	—	—
0602-C	16.72	1.09	14.59	0.95	20.46	1.51	27.67	2.79	34.89	4.46	40.91	6.00	48.10	8.22	—	—
0702-C	16.25	1.11	23.15	2.23	30.87	3.98	37.86	5.95	46.13	8.80	53.07	11.47	—	—	—	—
0503-D	14.99	0.63	20.64	0.74	27.03	0.92	31.93	1.07	29.92	1.00	39.18	1.49	48.56	2.29	57.92	3.26
0604-D	18.22	0.64	24.83	0.75	—	—	29.48	0.85	38.61	1.09	49.76	1.68	59.11	2.33	70.36	3.31
0702-D	22.70	1.04	34.48	2.15	45.28	3.69	56.13	5.65	66.89	7.92	79.57	11.23	—	—	—	—
0704-D	25.25	0.80	24.06	0.77	34.63	1.06	45.33	1.61	56.14	2.44	69.08	3.73	79.70	4.95	—	—
0804-D	24.62	0.82	36.74	1.22	48.95	2.14	61.16	3.32	73.28	4.77	—	—	—	—	—	—
0904-D	36.28	1.44	48.52	2.53	62.08	4.16	72.91	5.65	—	—	—	—	—	—	—	—
0804-E	39.83	1.01	56.42	1.70	75.17	2.98	93.95	4.62	112.46	6.61	—	—	—	—	—	—
0806-E	36.43	0.87	39.75	0.94	56.07	1.41	72.59	2.26	89.25	3.29	107.76	4.70	—	—	—	—
1004-F	67.67	1.39	84.97	2.18	100.11	2.96	117.18	4.07	—	—	—	—	—	—	—	—
1104-F	79.88	2.18	98.39	3.31	114.47	4.42	—	—	—	—	—	—	—	—	—	—
1004-G	83.36	1.25	102.73	1.86	124.9	2.75	144.23	3.62	—	—	—	—	—	—	—	—
1104-G	99.15	2.05	121.59	3.06	143.75	4.27	—	—	—	—	—	—	—	—	—	—
0903-H	93.49	1.10	118.77	1.76	144.20	2.57	169.48	3.53	191.66	4.44	216.73	5.67	—	—	—	—
1003-H	116.59	1.98	141.01	2.83	168.72	4.04	195.94	5.45	—	—	—	—	—	—	—	—
1206-H	127.58	1.09	155.58	1.59	183.35	2.19	—	—	—	—	—	—	—	—	—	—
1003-J	145.01	1.76	179.78	2.68	214.32	3.78	244.50	4.85	—	—	—	—	—	—	—	—
1104-J	164.53	1.61	202.03	2.41	234.87	3.20	—	—	—	—	—	—	—	—	—	—
1204-J	186.76	2.44	226.80	3.60	—	—	—	—	—	—	—	—	—	—	—	—

LEGEND

Cap. — Capacity (Tons)
EFT — Entering Fluid Temperature
LFT — Leaving Fluid Temperature
PD — Pressure Drop (PSIG)
SST — Refrigerant Saturated Suction Temperature

NOTES:

1. Ratings based on 35 F saturated suction temperature. Fouling factor is 0.0001.
2. Shaded selections are 2-pass. All other selections are 4-pass.
3. LTD = LFT – SST
4. Range = EFT – LFT

10RT SERIES DX COOLERS

TOTALINE CONDENSER UNIT	FRONT CONDENSER HEAD	REAR CONDENSER HEAD	GASKET
10RT0401-A-147--AB	HEAD0026223	HEAD0026216	GASKE010180
10RT0501-A-147--AB	HEAD0026223	HEAD0026216	GASKE010180
10RT0501-B-147--AB	HEAD0026111	HEAD0026135	GASKE010254
10RT0401-C-247--AB	HEAD0025732	HEAD0025651	GASKE010247
10RT0501-C-247--AB	HEAD0025732	HEAD0025651	GASKE010247
10RT0602-C-227--AB	HEAD0025763	HEAD0025787	GASKE010247
10RT0702-C-227--AB	HEAD0025763	HEAD0025787	GASKE010247
10RT0704-D-227--AB	HEAD0025594	HEAD0025363	GASKE010216
10RT0804-D-227--AB	HEAD0025594	HEAD0025363	GASKE010216
10RT0904-D-227--AB	HEAD0025594	HEAD0025363	GASKE010216
10RT0804-E-227--AB	HEAD0026142	HEAD0026166	GASKE010209
10RT1004-F-227--AB	HEAD0026366	HEAD0026373	GASKE010223
10RT0601-B-147--AB	HEAD0026111	HEAD0026135	GASKE010254
10RT0503-D-247--AB	HEAD0010423	HEAD0025363	GASKE010216
10RT0604-D-247--AB	HEAD0010423	HEAD0025363	GASKE010216
10RT0702-D-227--AB	HEAD0025594	HEAD0025363	GASKE010216
10RT0806-E-227--AB	HEAD0026142	HEAD0026166	GASKE010209
10RT1104-F-227--AB	HEAD0026366	HEAD0026373	GASKE010223
10RT1004-G-227--AB	HEAD0026492	HEAD0026511	GASKE016245
10RT1104-G-227--AB	HEAD0026492	HEAD0026511	GASKE016245
10RT0903-H-227--AB	HEAD0026528	HEAD0026454	GASKE016340
10RT1003-H-227--AB	HEAD0026528	HEAD0026454	GASKE016340
10RT1205-H-227--AB	HEAD0026528	HEAD0026454	GASKE016340
10RT1003-J-227--AB	HEAD0011183	HEAD0021873	GASKE016238
10RT1104-J-227--AB	HEAD0011183	HEAD0021873	GASKE016238
10RT1204-J-227--AB	HEAD0011183	HEAD0021873	GASKE016238
10RT0902-L-227--AB	HEAD0020906	COVER005369	GASKE015473
10RT1002-L-227--AB	HEAD0026430	HEAD0026454	GASKE009930
10RT1103-L-227--AB	HEAD0026430	HEAD0026454	GASKE009930
10RT1203-L-227--AB	HEAD0026430	HEAD0026454	GASKE009930

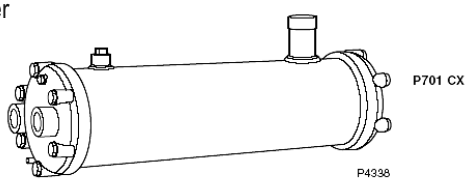
P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

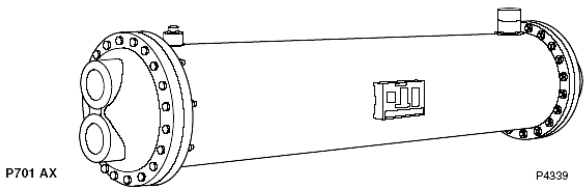
Totaline's water-cooled condensers are designed for a wide range of applications and are available in many models ranging from 5 to 400 nominal tons. Small and large condensers are available for fresh water applications while marine condensers can be special ordered for sea water applications.

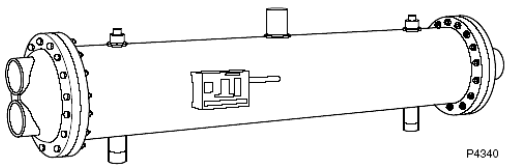
Features/Benefits

There are many standard condensers to choose from in small and large sizes. In addition, special ordered marine condensers for sea water applications can be ordered through Totaline's part stores. Totaline's condensers offer the following features and benefits:

- All condensers conform to ASME specifications.
- Shells are shot blasted and cleaned prior to assembly.
- Quality steel tube supports are made to close tolerance to minimize vibration.
- Exterior surfaces are cleaned and painted with a high quality enamel primer.
- Steel refrigerant connections are bored to accept outside diameter of sweat copper tubing.
- Relief, vent and drain connections are provided.







Model Number Nomenclature
05 TO 09 NOMINAL TONS

P701 – 06 05 CX

P701 – Water-Cooled Condenser

Condenser Size
CX – Small
AX – Large

Nominal Tons
05 – 5 Tons
07 – 7.5 Tons
10 – 10 Tons
15 – 15 Tons
20 – 20 Tons } CX Size
25 – 25 Tons
30 – 30 Tons
40 – 40 Tons
50 – 50 Tons
65 – 65 Tons
75 – 75 Tons
90 – 90 Tons } AX Size

Nominal Shell Diameter
06 – 6 in.
08 – 8 in.
10 – 10 in.
12 – 12 in.

110 TO 400 NOMINAL TONS

P701 – 16 400 AX

P701 – Water-Cooled Condenser

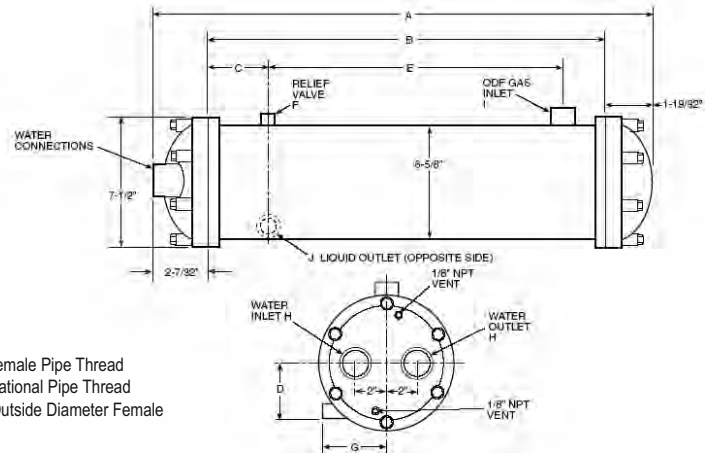
Condenser Size
AX – Large

Nominal Tons
110 – 110 Tons
140 – 140 Tons
150 – 150 Tons
200 – 200 Tons
210 – 210 Tons
230 – 230 Tons
270 – 270 Tons
290 – 290 Tons
300 – 300 Tons
360 – 360 Tons
400 – 400 Tons

Nominal Shell Diameter
12 – 12 in.
14 – 14 in.
16 – 16 in.

P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

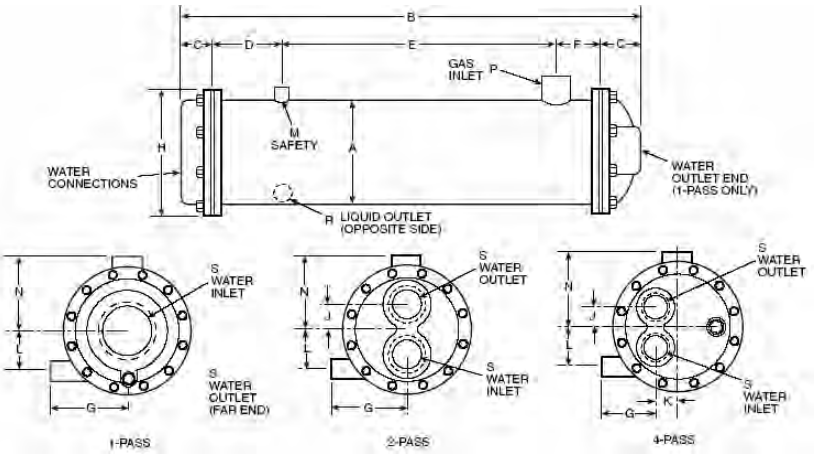
Physical Data and Dimensions
P701 CX FRESH WATER CONDENSERS



LEGEND
FPT — Female Pipe Thread
NPT — National Pipe Thread
ODF — Outside Diameter Female

UNIT P701-	A	B	C	D	E	F FPT	G	H FPT	I ODF	J ODF	WEIGHT (lb)
0605CX	27 9/16	23 3/4	3 1/2	2	16 3/8	1/2	4 13/16	1	1 5/8	1 1/8	100
0607CX	27 9/16	23 3/4	3 1/2	2	16 3/8	1/2	4 13/16	1	1 5/8	1 1/8	105
0610CX	39 9/16	35 3/4	3 1/2	2	28 3/8	1/2	4 13/16	1 1/4	1 5/8	1 1/8	130
0615CX	51 9/16	47 3/4	3 1/2	2	40 3/8	1/2	4 13/16	1 1/4	1 5/8	1 1/8	160
0620CX	51 9/16	47 3/4	3 1/2	2	40 3/8	1/2	4 13/16	1 1/4	1 5/8	1 1/8	170

Physical Data and Dimensions
P701 CX FRESH WATER CONDENSERS



FPT — Female Pipe Thread
ODF — Outside Diameter Female
*125 lb flat face flange.
†150 lb raised face flange.

UNIT P701-	A DIA	B	C	D	E	F	G	H	J	L	M FPT	N	P ODF	R ODF	S	WEIGHT (lb)
0625AX	6 5/8	63 13/16	2 1/32	3 1/2	52 3/8	3 7/8	4 13/16	7 1/2	1 1/2	2 5/8	2 5/8	6 5/16	1 5/8	1 1/8	2	170
0630AX	6 5/8	63 13/16	2 1/32	3 1/2	52 3/8	3 7/8	4 13/16	7 1/2	1 1/2	2 5/8	2 5/8	6 5/16	2 1/8	1 3/8	2	195
0840AX	8 5/8	66	3 1/8	3 1/2	52 3/8	3 7/8	5 13/16	9 11/16	1 7/8	3 13/32	3 13/32	7 5/16	2 1/8	1 3/8	2 1/2	300
0850AX	8 5/8	78	3 1/8	3 1/2	64 3/8	3 7/8	5 13/16	9 11/16	1 7/8	3 13/32	3 13/32	7 5/16	2 1/8	1 3/8	2 1/2	340
1065AX	10 3/4	69 1/8	4 11/16	3 3/4	52	4	6 7/8	13 3/4	21/4	4 1/4	4 1/4	8 3/8	2 5/8	1 5/8	3	460
1075AX	10 3/4	81 1/8	4 11/16	3 3/4	64	4	6 7/8	13 3/4	21/4	4 1/4	4 1/4	8 3/8	2 5/8	1 5/8	3	475
1290AX	12 3/4	69	4 5/8	4 3/16	50 15/16	4 5/8	7 7/8	15 3/4	2 5/8	5 1/4	5 1/4	9 3/8	2 5/8	1 5/8	4	590
12110AX	12 3/4	81	4 5/8	4 3/8	62 7/16	415/16	7 7/8	15 3/4	2 5/8	5 1/16	5 1/16	9 3/8	3 1/8	2 1/8	4	665
12140AX	12 3/4	108	6 1/8	4 3/8	86 7/16	4 15/16	7 7/8	15 3/4	—	5 1/16	5 1/16	9 3/8	3 1/8	2 1/8	6*	855
12150AX	12 3/4	108	6 1/8	4 3/8	86 7/16	4 15/16	7 7/8	15 3/4	—	5 1/16	5 1/16	9 3/8	3 1/8	2 1/8	6*	890
12200AX	12 3/4	132	6 1/8	4 3/8	110 3/16	5 3/16	7 7/8	15 3/4	—	5 1/16	5 1/16	9 3/8	3 5/8	2 1/8	6*	1060
14140AX	14	69	5 1/8	4 3/8	50 7/16	4 15/16	8 1/2	17 7/8	4 1/2	5 9/16	5 9/16	10	3 1/8	2 1/8	4*	895
14165AX	14	81	5 1/8	4 3/8	62 7/16	4 15/16	8 1/2	17 7/8	4 1/2	5 9/16	5 9/16	10	3 5/8	2 1/8	4*	1410
14210AX	14	115 3/8	9 11/16	4 5/8	85 11/16	5 7/16	8 1/2	17 7/8	—	5 7/16	5 7/16	10	4 1/8	2 5/8	6†	1240
14270AX	14	139 3/8	9 11/16	4 5/8	109 11/16	5 7/16	8 1/2	17 7/8	—	5 7/16	5 7/16	10	4 1/8	2 5/8	6†	1420
14290AX	14	139 3/8	9 11/16	4 5/8	109 11/16	5 7/16	8 1/2	17 7/8	—	5 7/16	5 7/16	10	4 1/8	2 5/8	6†	1480
16200AX	16	69	5 1/8	4 5/8	49 11/16	5 7/16	9 1/2	19 7/8	5	6 1/2	6 1/2	11	3 5/8	2 1/8	5*	1220
16210AX	16	81	5 1/8	4 7/8	61 3/16	5 11/16	9 1/2	19 7/8	5	6 7/16	6 7/16	11	4 1/8	2 5/8	5*	1190
16230AX	16	81	5 1/8	4 7/8	61 3/16	5 11/16	9 1/2	19 7/8	5	6 7/16	6 7/16	11	4 1/8	2 5/8	5*	1360
16300AX	16	120 1/2	12 3/8	4 7/8	84 5/8	6 1/4	9 1/2	19 7/8	—	5 7/8	5 7/8	11	5 1/8	3 1/8	8†	1723
16360AX	16	144 1/2	12 3/8	4 7/8	108 5/8	6 1/4	9 1/2	19 7/8	—	5 7/8	5 7/8	11	5 1/8	3 1/8	8†	1825
16400AX	16	144 1/2	12 3/8	4 7/8	108 5/8	6 1/4	9 1/2	19 7/8	—	5 7/8	5 7/8	11	5 1/8	3 1/8	8†	2085

P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

Selection and Rating Notes

1. Condenser Tables:
Condenser Capacity and Flow Rate Tables are based on R-22, R-134a, and R507/404A refrigerant. Ratings include ARI standard .00025 fouling factor.

2. Ratings:
Ratings show conditions where fluid velocity, pressure drop, and tube sheet impingement are within acceptable range under continuous duty. NOTE: To avoid reduction in service life, do not exceed flow rates shown in table.

3. Determine Total Heat of Compression:
Table ratings show total heat of rejection (THR) at 14,400 Btuh per ton. The THR is derived from the total heat load at the evaporator of 12,000 Btuh per ton plus20% which is the average heat of compression (a.c. duty). To calculate Total Heat of Compression for semi-hermetic compressors, add the low side heat load to the heat produced by the compressor which equates to: Full load kW x 3413 kW per Btuh To calculate Total Heat of Compression for open-drive compressors, add the low side heat load to the heat produced by the compressor which equates to: Brake Horsepower x 2544 Btuh per HP

4. Greatest Temperature Difference (GTD):
GTD is the difference between the entering water temperature and saturated condensing temperature.

5. Condenser Water Flow:
Condenser water flow from cooling towers is typically based on 10 degree temperature change across the condenser. This equals 3 gallon per minute (GPM) per ton. Tower water temperatures are based on wet bulb and capacity of tower cell. Typical tower temperature is 85 F but can vary by geographic areas or tower cell design. City water cooling usually specifies less water with a 20 F temperature difference across the condenser, or 1.5 GPM per ton.

6. Fouling Factors:
Condenser Capacity and Flow Rate Tables include ARI standard .00025 fouling factor. The amount of fouling varies with the quality of cooling water and the velocity in which it moves through the tubes. The lower the velocity, the greater the chance is to produce tubeside fouling. For additional information on fouling factors or for applications that fall outside the values shown in the tables, contact Totaline SalesRepresentative.

UNIT P701-	NOMINAL TONS	THR (Btuh)	GPM	PRESSURE DROP	No. PASSES	SURFACE (sq ft)	PUMP DOWN (lb)
0605CX	5	87,846	15	4.8	6	6.1	17
0607CX	7.5	119,869	22.5	7.4	6	7.5	15.7
0610CX	10	174,765	30	5.1	4	11.8	24.1
0615CX	15	273,709	45	11	4	17.6	31.2
0620CX	20	353,820	60	13.5	4	21.9	27.1
0625AX	25	371,578	75	4.7	2	22.3	39.3
0630AX	30	437,433	90	5.2	2	26.1	35.9
0840AX	40	608,148	120	4.5	2	37.1	70.4
0850AX	50	770,641	150	7.5	2	45	84.8
1065AX	65	944,411	195	5.2	2	55.7	111.2
1075AX	75	1,155,961	225	7.6	2	67.5	134.2
1290AX	90	1,312,300	270	6	2	78	158.5
12110AX	110	1,645,759	330	9.6	2	94.5	191.5
12140AX	140	2,027,756	420	2.1	1	127.5	257.7
12150AX	150	2,187,086	450	2.1	1	139.6	246.6
12200AX	200	2,967,634	600	4.1	1	175.6	309.8
14140AX	140	2,037,996	420	5.6	2	120.7	160.7
14165AX	165	2,518,541	495	8.4	2	146.2	194.2
16200AX	200	2,902,774	600	5.5	2	170.9	201.9
14210AX	210	3,086,396	630	2.3	1	197.3	261.3
16210AX	210	3,196,081	630	7.9	2	184.5	264.7
16230AX	230	3,544,948	690	7.8	2	206.9	244
14270AX	270	3,922,026	810	4.8	1	229.2	345.8
14290AX	290	4,224,263	870	4.9	1	248.4	328.3
16300AX	300	4,374,171	900	2.2	1	279.2	328.3
16360AX	360	5,298,332	1080	4.2	1	313.3	447.4
16400AX	400	5,935,269	1200	4.2	1	351.5	412.5

NOTES:
1. Nominal tons per ARI standards. ARI Standards include R-22 service at 105 F condensing temp, 85 F inlet cooling water, 14,400 Btuh/ton, .00025 total fouling factor.
2. P701-0615CX, P701-0620CX, P701-1290AX, P701-12110AX, P701-14165AX and P701-16210AX units have excessive velocity at ARI Standard flow rate. Flow rate shown is within acceptable velocity limits.
3. Pump down capacities based on 80% of free shell volume with R-22 at 90 F (per ARI standards).
4. Consult Totaline sales representative for marine condenser capacities

P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

CONDENSER CAPACITY AND FLOW RATES — R-22 (at 105 F) CONDENSING TEMPERATURE WITH .00025 TOTAL FOULING FACTOR

UNIT P701-	GPM	ΔP	TOTAL HEAT OF REJECTION AT SPECIFIED GTD (F)					
			15° GTD	20° GTD	25° GTD	30° GTD	35° GTD	40° GTD
0605CX	4	0.4	25,876	34,346	42,623	50,894	59,047	67,175
	7	1.2	40,573	53,575	66,384	79,002	91,433	103,691
	10	2.3	52,268	68,835	85,046	100,906	116,676	131,981
	13	3.7	61,854	80,982	100,018	118,330	136,385	154,717
	16	5.5	69,544	91,211	112,212	132,917	153,006	172,113
	19	7.5	76,284	99,334	122,457	144,354	165,956	187,291
	22	9.9	81,725	106,541	130,963	153,913	177,705	200,067
0607CX	8	1.1	47,149	62,256	77,174	91,893	106,399	120,699
	11	2.0	59,478	78,384	96,924	115,096	133,011	150,692
	14	3.1	69,930	91,849	113,217	134,268	155,035	175,071
	17	4.4	78,722	103,175	126,925	150,325	173,419	195,531
	20	6.0	86,329	112,806	138,858	164,108	189,023	213,636
	23	7.8	92,626	121,152	148,694	176,400	202,651	228,578
	26	9.7	98,283	128,605	157,814	186,617	213,715	240,462
0610CX	10	0.7	62,373	82,860	102,457	122,287	141,818	160,973
	15	1.5	85,363	112,618	139,447	165,852	191,883	217,417
	20	2.5	104,246	137,064	169,356	201,201	232,648	263,167
	25	3.7	120,229	157,722	194,628	230,151	265,167	299,727
	30	5.2	133,498	174,765	215,383	254,191	292,454	330,227
	35	6.9	144,917	189,123	232,616	274,693	317,053	357,244
	40	8.8	154,191	202,443	248,020	292,947	337,309	379,093
0615CX	15	1.5	97,523	129,183	160,807	191,540	222,649	252,631
	20	2.6	122,585	161,948	200,943	239,541	277,305	314,905
	25	3.8	144,524	190,575	235,938	280,611	324,664	368,164
	30	5.4	163,698	215,528	268,356	316,465	365,659	414,241
	35	7.1	180,523	237,619	293,047	347,672	401,108	453,874
	40	9.0	195,650	256,985	316,774	374,406	432,610	488,748
	45	11.2	208,992	273,709	336,575	398,539	459,727	520,228
0620CX	15	1.1	101,136	134,027	166,805	199,111	231,647	263,717
	20	1.9	128,374	170,328	211,585	252,256	292,405	332,450
	25	2.8	153,231	202,435	251,179	299,427	346,631	393,631
	30	3.8	175,497	231,510	286,665	341,092	394,800	447,790
	35	5.1	195,393	257,457	318,265	378,366	437,215	495,867
	40	6.5	213,379	280,670	346,918	411,868	475,987	538,365
	45	8.1	229,519	301,699	372,792	441,714	509,707	576,875
0625AX	25	0.7	143,279	189,183	234,342	278,853	322,685	365,918
	35	1.2	182,367	239,870	296,448	352,230	407,288	460,716
	45	1.9	214,674	281,873	347,257	412,496	475,260	537,191
	55	2.7	241,762	316,860	389,648	462,572	532,195	600,918
	65	3.7	265,014	346,304	426,315	502,128	580,044	650,648
	75	4.8	283,919	371,578	456,014	539,267	617,577	694,849
	85	6.0	300,803	391,753	483,509	569,523	654,414	738,299
0630AX	30	0.7	170,758	225,374	279,128	332,028	384,178	435,634
	40	1.2	209,945	276,499	341,625	405,807	468,118	529,518
	50	1.8	242,650	319,222	393,855	466,584	537,416	609,117
	60	2.5	271,334	358,215	438,635	519,889	597,581	674,205
	70	3.4	295,532	386,982	477,015	564,243	647,069	732,076
	80	4.3	317,238	415,518	508,451	603,921	694,287	779,467
	90	5.3	335,480	437,433	537,756	636,707	729,719	826,329
0840AX	40	0.6	231,569	305,830	378,918	450,965	521,942	591,910
	60	1.3	308,640	408,013	504,258	597,595	689,529	780,189
	80	2.2	372,012	487,892	603,017	713,803	819,900	927,725
	100	3.3	422,189	552,832	681,449	806,061	924,384	1,045,822
	120	4.5	463,073	608,148	745,178	880,222	1,013,523	1,139,022
	140	6.0	500,930	661,392	799,425	941,663	1,082,025	1,220,703
0850AX	50	1.1	296,824	392,331	486,264	578,850	670,228	760,485
	70	1.9	378,460	498,635	616,474	731,993	845,905	958,367
	90	3.0	445,812	585,635	723,306	857,721	987,383	1,118,374
	110	4.4	502,450	656,782	808,565	958,209	1,105,984	1,247,414
	130	5.9	548,504	717,949	884,783	1,046,464	1,200,062	1,357,777
	150	7.6	587,833	770,641	947,107	1,117,473	1,285,647	1,451,868
1065AX	100	1.6	497,687	655,475	808,070	958,376	1,106,650	1,249,634
	120	2.2	558,019	731,538	904,525	1,070,705	1,229,850	1,391,588
	140	2.9	609,337	799,341	986,472	1,165,035	1,341,130	1,514,993
	160	3.7	655,460	858,550	1,054,440	1,249,623	1,434,672	1,617,293
	180	4.6	694,609	912,222	1,117,768	1,320,333	1,520,285	1,708,533
	200	5.8	731,968	955,731	1,170,825	1,388,102	1,592,145	1,793,632
	220	6.6	764,189	996,751	1,225,710	1,445,627	1,650,631	1,865,118

LEGEND
GPM — Gallons Per Minute
GTD — Greatest Temperature Difference(F)
ΔP— Change In Pressure (psi)

NOTES:
1. Total heat of rejection is in Btuh.
2. GTD is the difference between the condensing temperature and the inlet water temperature.

P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

CONDENSER CAPACITY AND FLOW RATES — R-22 (at 105 F) CONDENSING TEMPERATURE WITH .00025 TOTAL FOULING FACTOR

UNIT P701-	GPM	ΔP	TOTAL HEAT OF REJECTION AT SPECIFIED GTD (F)					
			15° GTD	20° GTD	25° GTD	30° GTD	35° GTD	40° GTD
1075AX	100	1.8	549,242	723,666	894,725	1,064,037	1,229,536	1,392,800
	120	2.5	620,641	816,646	1,008,988	1,195,572	1,379,434	1,560,856
	140	3.3	684,010	898,961	1,108,478	1,310,356	1,514,172	1,710,591
	160	4.2	740,636	970,480	1,193,714	1,413,701	1,630,852	1,838,835
	180	5.2	790,161	1,031,523	1,272,666	1,502,922	1,730,059	1,954,402
	200	6.2	832,768	1,091,177	1,341,161	1,587,674	1,821,717	2,052,717
	220	7.4	873,638	1,143,861	1,399,460	1,662,009	1,910,686	2,145,306
1290AX	125	1.5	647,708	851,897	1,052,844	1,247,755	1,443,202	1,632,703
	150	2.1	727,950	957,665	1,181,564	1,399,753	1,612,247	1,827,351
	175	2.7	801,122	1,050,925	1,293,509	1,529,077	1,764,923	1,997,960
	200	3.5	865,203	1,130,819	1,392,139	1,645,384	1,895,198	2,141,908
	225	4.4	920,475	1,202,857	1,480,758	1,754,871	2,014,720	2,271,172
	250	5.3	973,062	1,270,146	1,556,383	1,838,443	2,116,837	2,379,001
12110AX	125	1.7	709,443	935,822	1,158,675	1,378,012	1,593,021	1,806,411
	150	2.3	806,243	1,061,146	1,311,985	1,559,368	1,798,741	2,038,119
	175	3.1	891,444	1,172,494	1,449,312	1,717,584	1,982,106	2,243,254
	200	3.9	968,319	1,270,209	1,567,302	1,860,345	2,142,651	2,428,676
	225	4.8	1,036,223	1,362,848	1,676,315	1,985,238	2,290,194	2,582,240
	250	5.8	1,100,217	1,441,382	1,772,096	2,103,464	2,420,017	2,732,636
12140AX	200	0.6	1,001,127	1,315,969	1,625,774	1,931,178	2,229,385	2,516,832
	275	1.0	1,227,329	1,608,045	1,982,676	2,352,045	2,704,787	3,052,573
	350	1.6	1,409,736	1,845,046	2,265,246	2,687,795	3,087,802	3,482,486
	425	2.2	1,556,958	2,033,727	2,491,961	2,954,691	3,388,991	3,817,573
	500	2.9	1,679,131	2,198,496	2,682,488	3,173,108	3,657,631	4,108,083
	575	3.7	1,785,789	2,324,867	2,855,407	3,362,094	3,862,159	4,322,409
14140AX	150	0.9	837,468	1,104,779	1,367,476	1,625,473	1,880,768	2,130,479
	200	1.5	1,024,922	1,348,299	1,664,135	1,978,055	2,282,311	2,582,434
	250	2.2	1,180,023	1,550,353	1,915,099	2,265,790	2,611,549	2,952,835
	300	3.1	1,315,964	1,718,611	2,120,895	2,504,871	2,883,491	3,257,263
	350	4.1	1,429,599	1,868,143	2,299,754	2,708,794	3,129,046	3,527,334
	400	5.2	1,531,322	1,991,541	2,444,151	2,890,336	3,330,900	3,745,417
	450	6.5	1,615,835	2,112,964	2,578,846	3,049,759	3,490,559	3,937,867
12150AX	225	0.6	1,115,708	1,467,119	1,813,040	2,150,604	2,483,462	2,804,138
	300	1.0	1,340,371	1,756,172	2,165,306	2,568,678	2,953,928	3,347,060
	375	1.5	1,528,485	1,998,193	2,460,469	2,898,293	3,348,127	3,755,280
	450	2.1	1,676,685	2,187,086	2,689,272	3,184,458	3,649,584	4,132,598
	525	2.8	1,814,346	2,353,276	2,883,226	3,405,512	3,921,048	4,430,503
	600	3.5	1,925,912	2,497,970	3,060,678	3,598,318	4,128,647	4,652,365
	675	4.3	2,012,271	2,630,528	3,200,063	3,780,874	4,354,531	4,881,361
14165AX	100	0.5	653,019	863,988	1,075,136	1,284,549	1,488,236	1,694,373
	175	1.3	1,020,301	1,346,893	1,668,492	1,985,663	2,298,685	2,607,208
	250	2.5	1,311,461	1,723,877	2,132,322	2,526,493	2,921,219	3,304,471
	325	4.0	1,545,317	2,022,692	2,497,840	2,954,947	3,405,763	3,850,932
	400	5.8	1,734,022	2,273,809	2,788,416	3,295,339	3,795,567	4,289,800
	475	7.9	1,888,436	2,472,537	3,036,448	3,592,558	4,130,103	4,637,316
12200AX	175	0.5	1,036,407	1,370,530	1,699,143	2,022,971	2,342,462	2,657,876
	275	1.1	1,443,277	1,900,667	2,348,235	2,789,344	3,217,610	3,639,661
	375	1.8	1,761,534	2,314,216	2,845,078	3,367,805	3,883,355	4,392,400
	475	2.8	2,009,806	2,641,826	3,243,681	3,836,775	4,422,170	4,978,075
	575	3.9	2,216,727	2,911,067	3,566,859	4,213,194	4,851,251	5,451,971
	675	5.1	2,389,837	3,112,286	3,841,096	4,524,378	5,198,771	5,865,201
16200AX	175	0.6	1,024,624	1,354,070	1,678,702	1,998,149	2,313,249	2,623,657
	275	1.3	1,420,618	1,871,931	2,313,491	2,741,744	3,171,255	3,587,662
	375	2.4	1,734,267	2,273,442	2,797,067	3,312,944	3,821,973	4,309,151
	475	3.6	1,975,785	2,589,891	3,183,902	3,769,536	4,325,191	4,873,334
	575	5.1	2,176,714	2,848,763	3,496,108	4,134,381	4,734,756	5,327,175
	675	6.9	2,344,233	3,057,721	3,760,097	4,434,731	5,063,607	5,721,592
14210AX	300	0.6	1,517,254	1,993,877	2,462,665	2,920,225	3,371,081	3,815,758
	400	1.1	1,830,461	2,402,416	2,965,530	3,496,911	4,036,389	4,569,118
	500	1.6	2,083,261	2,732,006	3,359,473	3,977,847	4,588,129	5,166,653
	600	2.2	2,304,057	3,012,589	3,710,107	4,382,864	5,015,617	5,670,941
	700	2.9	2,480,970	3,250,710	3,990,250	4,700,497	5,401,112	6,092,993
	800	3.7	2,637,269	3,459,476	4,224,991	4,979,263	5,700,870	6,413,044
	900	4.5	2,785,070	3,625,707	4,453,153	5,243,277	6,023,187	6,740,668

LEGEND
GPM — Gallons Per Minute
GTD — Greatest Temperature Difference(F)
ΔP— Change In Pressure (psi)

NOTES:
1. Total heat of rejection is in Btuh.
2. GTD is the difference between the condensing temperature and the Inlet water temperature.

P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

CAPACITY AND FLOW RATES — R-22 (at 105 F) CONDENSING TEMPERATURE WITH .00025 TOTAL FOULING FACTOR

UNIT P701-	GPM	ΔP	TOTAL HEAT OF REJECTION AT SPECIFIED GTD (F)					
			15° GTD	20° GTD	25° GTD	30° GTD	35° GTD	40° GTD
	200	1	1,194,350	1,578,641	1,956,273	2,329,709	2,698,111	3,062,287
	275	1.8	1,507,268	1,985,089	2,456,183	2,916,566	3,375,334	3,823,536
	350	2.8	1,770,094	2,323,697	2,868,324	3,400,202	3,924,854	4,442,995
16210AX	425	4	1,991,883	2,608,452	3,215,109	3,805,374	4,387,800	4,963,190
	500	5.3	2,173,887	2,850,585	3,506,490	4,153,270	4,780,925	5,378,156
	575	6.9	2,342,974	3,060,496	3,766,791	4,436,244	5,096,548	5,748,665
	650	8.5	2,486,054	3,232,073	3,965,846	4,689,412	5,404,144	6,077,054
	225	1.1	1,343,705	1,774,662	2,199,194	2,619,003	3,034,096	3,442,551
	300	1.8	1,658,124	2,186,147	2,704,940	3,212,311	3,717,051	4,210,543
	375	2.7	1,926,815	2,533,533	3,126,145	3,715,226	4,286,501	4,850,302
16230AX	450	3.7	2,154,179	2,834,521	3,489,889	4,135,715	4,764,872	5,385,954
	525	4.9	2,351,561	3,088,477	3,793,499	4,498,966	5,173,593	5,862,392
	600	6.2	2,528,836	3,310,041	4,079,235	4,797,247	5,532,731	6,259,915
	675	7.7	2,680,047	3,509,005	4,293,092	5,098,519	5,861,381	6,581,106
	300	0.8	1,659,847	2,189,338	2,709,603	3,218,407	3,724,199	4,218,564
	400	1.4	2,024,956	2,659,408	3,283,509	3,892,882	4,493,714	5,086,777
	500	2.1	2,325,370	3,048,255	3,768,927	4,461,273	5,124,368	5,798,307
14270AX	600	2.8	2,576,282	3,382,754	4,164,316	4,921,708	5,668,965	6,407,079
	700	3.7	2,807,096	3,655,656	4,506,963	5,312,992	6,108,043	6,893,203
	800	4.8	2,982,903	3,899,223	4,781,048	5,660,710	6,487,671	7,346,606
	900	5.9	3,163,790	4,119,905	5,036,865	5,940,587	6,832,761	7,664,767
	300	0.7	1,696,427	2,238,151	2,771,577	3,295,118	3,812,421	4,323,115
	425	1.4	2,163,318	2,846,526	3,519,423	4,171,405	4,814,028	5,448,155
14290AX	550	2.2	2,546,440	3,337,925	4,106,608	4,863,922	5,611,202	6,326,541
	675	3.1	2,851,064	3,733,082	4,601,424	5,442,767	6,241,750	7,061,758
	800	4.3	3,118,233	4,070,090	4,987,248	5,891,008	6,783,032	7,664,521
	925	5.5	3,331,512	4,356,253	5,341,138	6,312,257	7,246,436	8,169,269
	475	0.7	2,316,169	3,039,869	3,759,339	4,445,216	5,137,081	5,802,897
	625	1.2	2,749,165	3,604,853	4,434,163	5,264,683	6,057,206	6,838,959
	775	1.7	3,111,810	4,054,506	5,000,040	5,894,968	6,777,151	7,647,698
16300AX	925	2.3	3,395,270	4,458,625	5,458,362	6,443,346	7,390,511	8,325,127
	1075	3	3,659,895	4,783,503	5,860,457	6,922,151	7,909,981	8,884,406
	1225	3.8	3,872,697	5,032,227	6,173,035	7,298,037	8,373,584	9,436,001
	1375	4.7	4,074,876	5,286,951	6,479,584	7,615,195	8,735,819	9,801,754
	475	1	2,518,292	3,311,712	4,096,515	4,860,189	5,618,421	6,367,262
	625	1.6	3,013,394	3,954,287	4,880,307	5,771,694	6,672,864	7,540,194
16360AX	775	2.4	3,416,332	4,477,293	5,505,721	6,535,813	7,519,583	8,490,628
	925	3.2	3,769,142	4,924,974	6,062,656	7,140,653	8,248,700	9,252,776
	1075	4.2	4,056,344	5,308,452	6,514,437	7,648,327	8,822,102	9,925,908
	1225	5.3	4,311,940	5,615,111	6,864,968	8,096,719	9,312,672	10,514,506
	475	0.8	2,605,621	3,432,065	4,247,606	5,052,103	5,838,210	6,613,309
	625	1.4	3,139,915	4,124,948	5,103,101	6,050,035	6,983,882	7,905,841
	775	2	3,592,864	4,709,650	5,794,296	6,862,846	7,917,186	8,958,654
16400AX	925	2.7	3,965,169	5,186,929	6,409,377	7,575,035	8,725,168	9,818,054
	1075	3.6	4,284,368	5,611,293	6,918,043	8,155,234	9,375,599	10,580,803
	1225	4.5	4,569,570	5,988,678	7,324,212	8,671,764	9,938,639	11,254,399
	1375	5.5	4,839,239	6,301,762	7,704,446	9,086,817	10,451,466	11,800,277

LEGEND
GPM — Gallons Per Minute
GTD — Greatest Temperature Difference(F)
ΔP— Change In Pressure (psi)

NOTES:
1. Total heat of rejection is in Btuh.
2. GTD is the difference between the condensing temperature and the Inlet water temperature.

P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

CONDENSER CAPACITY AND FLOW RATES — R-134A (at 105 F) CONDENSING TEMPERATURE WITH .00025 TOTAL FOULING FACTOR

UNIT P701-	GPM	TOTAL HEAT OF REJECTION AT SPECIFIED GTD (F)			
		15° GTD		40° GTD	
		ΔP	THR	ΔP	THR
0605CX	4 22	0.43 9.69	25,765 80,103	0.44 10.06	66,796 194,621
0607CX	8 26	1.08 9.55	46,790 96,365	1.12 9.90	119,453 234,015
0610CX	10 40	0.69 8.57	62,074 151,198	0.71 8.93	159,840 369,084
0615CX	15 42	1.50 9.64	96,870 197,657	1.56 10.04	251,118 490,954
0620CX	15 45	1.07 7.88	100,679 226,118	1.11 8.18	262,189 565,547
0625AX	25 85	0.65 5.83	142,136 294,664	0.68 6.12	361,781 717,671
0630AX	30 90	0.71 5.16	169,332 328,979	0.74 5.41	430,974 804,474
0840AX	40 140	0.61 5.83	229,741 487,215	0.64 6.10	585,906 1,186,682
0850AX	50 150	1.04 7.41	294,477 576,477	1.08 7.77	752,237 1,414,060
1065AX	100 220	1.55 6.44	491,308 748,299	1.62 6.75	1,231,276 1,811,718
1075AX	100 220	1.75 7.21	543,235 857,022	1.83 7.56	1,371,900 2,089,682
1290AX	125 250	1.45 5.17	640,243 949,116	1.51 5.38	1,610,509 2,331,313
12110AX	125 250	1.62 5.71	702,533 1,081,660	1.68 5.95	1,781,996 2,670,390
12140AX	200 575	0.57 3.61	989,938 1,746,399	0.60 3.84	2,484,282 4,222,703
14140AX	150 450	0.86 6.32	829,800 1,583,375	0.89 6.60	2,106,140 3,828,377
12150AX	225 675	0.61 4.20	1,102,892 1,966,220	0.64 4.46	2,759,028 4,725,153
14165AX	100 475	0.47 7.74	648,134 1,852,532	0.49 8.09	1,684,102 4,517,159
12200AX	175 675	0.47 4.97	1,029,404 2,340,751	0.49 5.27	2,632,546 5,700,528
16200AX	175 675	0.58 6.71	1,017,399 2,295,546	0.61 7.02	2,597,916 5,557,759
14210AX	300 900	0.62 4.42	1,500,798 2,723,529	0.65 4.65	3,767,346 6,531,613
16210AX	200 650	1.00 8.25	1,184,433 2,421,220	1.04 8.66	3,029,886 5,912,984
16230AX	225 675	1.04 7.48	1,331,505 2,629,070	1.08 7.83	3,406,100 6,410,453
14270AX	300 900	0.81 5.68	1,644,295 3,074,944	0.85 6.00	4,168,315 7,495,165
14290AX	300 925	0.73 5.37	1,681,478 3,264,221	0.76 5.66	4,269,982 7,943,303
16300AX	475 1375	0.69 4.53	2,288,601 3,961,437	0.73 4.80	5,705,596 9,566,629
16360AX	475 1225	0.97 5.13	2,490,601 4,191,020	1.03 5.45	6,270,314 10,215,657
16400AX	475 1375	0.82 5.33	2,579,947 4,703,510	0.86 5.64	6,522,230 11,464,852

LEGEND
GPM — Gallons Per Minute
GTD — Greatest Temperature Difference (F)
THR — Total Heat of Rejection
ΔP— Change In Pressure (psi)

NOTES:
1. Total heat of rejection is in Btuh.
2. GTD is the difference between the condensing temperature and the inlet water temperature.

P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons)

CONDENSER CAPACITY AND FLOW RATES — R-507/404A (at 105 F) CONDENSING TEMPERATURE WITH .00025 TOTAL FOULING FACTOR

UNIT P701-	GPM	TOTAL HEAT OF REJECTION AT SPECIFIED GTD (F)			
		15° GTD		40° GTD	
		ΔP	THR	ΔP	THR
0605CX	4 22	0.43 9.69	25,582 76,649	0.44 10.07	66,021 186,012
0607CX	8 26	1.08 9.56	46,132 92,293	1.12 9.91	117,295 223,811
0610CX	10 40	0.69 8.57	61,395 145,885	0.71 8.93	157,440 353,223
0615CX	15 42	1.50 9.64	96,015 191,905	1.56 10.05	247,451 471,557
0620CX	15 45	1.07 7.88	99,591 220,172	1.11 8.19	258,740 547,035
0625AX	25 85	0.65 5.83	140,108 283,698	0.68 6.13	355,018 680,343
0630AX	30 90	0.71 5.17	166,854 317,371	0.74 5.41	422,296 764,927
0840AX	40 140	0.61 5.83	226,617 469,123	0.64 6.12	575,438 1,133,013
0850AX	50 150	1.04 7.41	290,154 556,359	1.08 7.78	737,603 1,346,139
1065AX	100 220	1.55 6.44	481,415 719,947	1.62 6.75	1,195,454 1,727,631
1075AX	100 220	1.75 7.21	532,609 827,576	1.83 7.57	1,339,365 2,001,385
1290AX	125 250	1.45 5.17	626,889 916,892	1.51 5.39	1,563,267 2,235,009
12110AX	125 250	1.62 5.71	690,314 1,048,796	1.69 5.96	1,742,825 2,558,547
12140AX	200 575	0.57 3.61	969,692 1,675,473	0.60 3.84	2,419,279 4,013,472
14140AX	150 450	0.86 6.32	816,842 1,513,513	0.89 6.61	2,060,332 3,655,576
12150AX	225 675	0.61 4.20	1,083,086 1,883,280	0.64 4.46	2,693,371 4,481,024
14165AX	100 475	0.47 7.74	643,291 1,788,919	0.49 8.10	1,663,120 4,326,399
12200AX	175 675	0.47 4.97	1,016,231 2,253,177	0.49 5.28	2,588,503 5,402,854
16200AX	175 675	0.58 6.71	1,004,120 2,208,564	0.61 7.02	2,553,079 5,299,788
14210AX	300 900	0.62 4.42	1,471,001 2,612,665	0.65 4.65	3,670,893 6,258,033
16210AX	200 650	1.00 8.25	1,168,653 2,333,933	1.04 8.67	2,974,120 5,653,432
16230AX	225 675	1.04 7.48	1,313,736 2,530,572	1.08 7.84	3,343,356 6,139,566
14270AX	300 900	0.81 5.69	1,616,728 2,958,091	0.85 6.01	4,073,584 7,149,523
14290AX	300 925	0.73 5.37	1,655,375 3,144,178	0.76 5.67	4,184,727 7,586,650
16300AX	475 1375	0.69 4.53	2,238,728 3,792,706	0.73 4.80	5,565,050 9,070,571
16360AX	475 1225	0.98 5.14	2,441,137 4,031,866	1.03 5.45	6,123,263 9,774,892
16400AX	475 1375	0.82 5.33	2,534,088 4,524,881	0.86 5.65	6,380,518 10,936,480

LEGEND

GPM — Gallons Per Minute
GTD — Greatest Temperature Difference (F)
THR — Total Heat of Rejection
ΔP —hange In Pressure (psi)

NOTES:

1. Total heat of rejection is in Btuh.
2. GTD is the difference between the condensing temperature and the inlet water temperature.

Condenser, DX Cooler, and Marine Replacement Parts

Condenser

TOTALINE CONDENSER UNIT	FRONT CONDENSER HEAD	REAR CONDENSER HEAD	GASKET
P701-0605CX	C10827A1	C10847A1	09C2616
P701-0607CX	C10827A1	C10847A1	09C2616
P701-0610CX	C10828A1	C10848A1	09C2416
P701-0615CX	C10828A1	C10848A1	09C2416
P701-0620CX	C10828A1	C10848A1	09C2416
P701-0625AX	01B200F6	01BCLLF6	01C1416
P701-0630AX	01B200F6	01BCLLF6	01C1416
P701-0840AX	01B2LLF8	01BCLLF8	01C1418
P701-0850AX	01B2LLF8	01BCLLF8	01C1418
P701-1065AX	01B2LLFA	01BCLLFA	01C141A
P701-1075AX	01B2LLFA	01BCLLFA	01C141A
P701-1290AX	01B2LLFB	01BCLLFB	01C141B
P701-12110AX	01B2LLFB	01BCLLFB	01C141B
P701-12140AX	01B100FB	01B100FB	01C141B
P701-14140AX	08B2H0FC	08B2LLFC	0RC141C
P701-12150AX	01B100FB	01B100FB	01C141B
P701-14165AX	08B2H0FC	08B2LLFC	0RC141C
P701-12200AX	01B100FB	01B100FB	01C141B
P701-16200AX	08B2H0FC	08B2LLFC	0RC141D
P701-14210AX	HD51120N0003ND2	HD51120N0003ND2	0RC141C
P701-16210AX	08B2H0FC	08B2LLFC	0RC141D
P701-16230AX	08B2H0FC	08B2LLFC	0RC141D
P701-14270AX	HD51120N0003ND2	HD51120N0003ND2	0RC141C
P701-14290AX	HD51120N0003ND2	HD51120N0003ND2	0RC141C
P701-16300AX	HD51120N0003NF2	HD51120N0003NF2	0RC141D
P701-16360AX	HD51120N0003NF2	HD51120N0003NF2	0RC141D
P701-16400AX	HD51120N0003NF2	HD51120N0003NF2	0RC141D

MARINE CONDENSER

ACME MHX MARINE CONDENSER

ACME® Type MHX condensers are manufactured with the latest technology marine condenser tubing to provide compact size and cost effective use.

STANDARD DESIGNS

ACME® MHX condensers are available in standard designs for sea water duty. Standard MHX water condensers are available from 5 to 330 nominal tons of duty and are manufactured in large quantities to provide the lowest cost per ton available. Non-standard marine condensers are available to meet virtually any chiller application.

MODERN TUBE MATERIALS

ACME® MHX condensers utilize the latest technology tubing. Years of research and development, combined with thorough testing in our own labs have resulted in the highest efficiency condensers available. All condensers are manufactured with 3/4" diameters 90/10 cupro-nickel tubing to provide heavy wall construction and ease of service from commonly available tube cleaning devices.

MODIFICATIONS

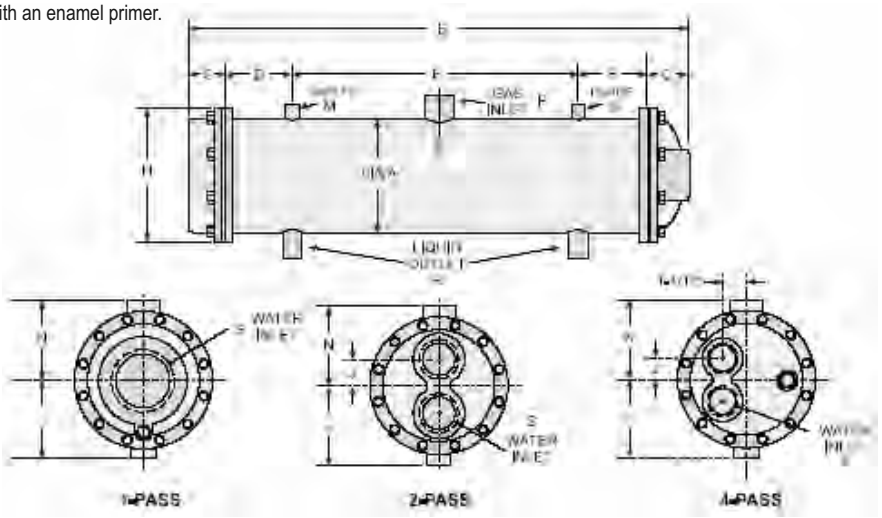
ACME® refrigeration heat exchangers are available with special materials of construction as required. Fresh water condensers can be made from stainless steel for increased life with poor quality cooling water. Vessels can be equipped with cupro-nickel tubes and tube sheets or titanium tubes for sea water duty. If your application calls for something special, just ask.

- **Shells** – Steel pipe to ASME specification. Shells are shot blasted and cleaned prior to assembly.
- **Tubes** – 90/10 cupro-nickel high performance enhanced design roller expanded into grooved tube sheets.
- **Tube shee**t – 90/10 cupro-nickel to ASME specifications. Precision machined for excellent sealing.
- **Tube Supports** – Quality steel manufactured to close tolerance to minimize vibration.
- **Heads** – Cast bronze to withstand the corrosive effects of sea water duty. Single-pass 14" & 16" heads are fabricated from steel and epoxy coated.
- **Connections** – All water side connections are FPT except 12" 1-pass, 14" and 16" models which have flanges. Refrigerant connections are steel and bored to ODS of copper tubing. Relief, vent and drain connections are provided.
- **Codes** – The refrigerant side is constructed to the latest edition of the ASME Section VIII Div 1 code and stamped. Refrigerant side is dual-rated for 450 psi at 150°F or 305 psi at 250°F. Water side design pressure is 150°F at 150 psi. Shell side is tested at 1.1 times and tube side is tested 1.3 times the design pressure.
- **Finish** – Exterior surfaces are cleaned and painted with an enamel primer.

90/10 Cupro-Nickel
Tubes & Tube sheets
Bronze or Epoxy
Coated Heads

‡ = 125 Lb. FF Flange, § = 150 Lb. RF Flange
Nominal capacity based on:
14,400 BTUH per ton
85°F condenser water
10°F range with R-22 service at 105°F condensing temp.

Comprehensive rating tables are available for R-22, R-134a and R-404a.
Pump-down capacity is based on 80% of free shell volume with R-22 at 90°F per ARI.
Capacity includes 0.00025 hr-ft2-°F/Btu additive fouling.



MODEL MHE	NOM	A	B	C	D	E	F	G	H	J	L	M	N	P	R	S	PUMP	WGT
MHX-602D-4	7.5	6 5/8	27-13/16	2-1/32	5-7/8	12	5-7/8	1/2	7-1/2	1-7/16	6-5/16	1/2	6-5/16	1-3/8	5/8	1-1/2	16	107
MHX-604B-4	5	6 5/8	21-7/8	2-1/32	5-7/8	12	5-7/8	1/2	7-1/2	1-7/16	6-5/16	1/2	6-5/16	1-3/8	5/8	1-1/2	28	180
MHX-603D-4	15	6 5/8	39-13/16	2-1/32	5-7/8	24	5-7/8	1/2	7-1/2	1-7/16	6-5/16	1/2	6-5/16	1-3/8	7/8	1-1/2	21	142
MHX-604D-4	20	6 5/8	51-13/16	2-1/32	5-7/8	36	5-7/8	1/2	7-1/2	1-7/16	6-5/16	1/2	6-5/16	1-3/8	7/8	1-1/2	28	175
MHX-605D-2	25	6 5/8	63-13/16	2-1/32	5-7/8	48	5-7/8	1/2	7-1/2	1-1/2	6-5/16	1/2	6-5/16	1-5/8	7/8	2	36	210
MHX-606D-2	30	6 5/8	75-13/16	2-1/32	5-7/8	60	5-7/8	1/2	7-1/2	1-1/2	6-5/16	1/2	6-5/16	1-5/8	1-1/8	2	43	244
MHX-805A-2	35	8 5/8	66	3-1/8	7-7/8	44	7-7/8	1/2	9-11/16	1-7/8	7-5/16	1/2	7-5/16	2-1/8	1-1/8	2-1/2	70	310
MHX-806A-2	45	8 5/8	78	3-1/8	7-7/8	56	7-7/8	1/2	9-11/16	1-7/8	7-5/16	1/2	7-5/16	2-1/8	1-1/8	2-1/2	84	357
MHX-808A-2	60	8 5/8	102	3-1/8	7-7/8	80	7-7/8	1/2	9-11/16	1-7/8	7-5/16	1/2	7-5/16	2-1/8	1-1/8	2-1/2	313	455
MHX-1005A-2	50	10-3/4	69	4-11/16	7-7/8	44	7-7/8	1/2	13-3/4	2-1/4	8-3/8	3/4	8-3/8	2-1/8	1-5/8	3	111	480
MHX-1006A-2	65	10-3/4	81	4-11/16	7-7/8	56	7-7/8	1/2	13-3/4	2-1/4	8-3/8	3/4	8-3/8	2-5/8	1-5/8	3	134	550
MHX-1008A-2	85	10-3/4	105-1/8	4-11/16	7-7/8	80	7-7/8	1/2	13-3/4	2-1/4	8-3/8	3/4	8-3/8	2-5/8	1-5/8	3	180	695
MHX-1205A-2	70	12-3/4	69	4-5/8	7-7/8	44	7-7/8	1/2	15-3/4	2-5/8	9-3/8	1	9-3/8	2-5/8	1-5/8	3	158	670
MHX-1206A-2	90	12-3/4	81	4-5/8	7-7/8	56	7-7/8	1/2	15-3/4	2-5/8	9-3/8	1	9-3/8	2-5/8	1-5/8	3	191	765
MHX-1208A-1	110	12-3/4	108	6-1/8	7-7/8	80	7-7/8	1/2	15-3/4	--	9-3/8	1	9-3/8	3-1/8	2-5/8	6‡	257	990
MHX-1208A-2	130	12-3/4	105	4-5/8	7-7/8	80	7-7/8	1/2	15-3/4	2-5/8	9-3/8	1	9-3/8	3-1/8	2-5/8	3	257	960
MHX-1210A-1	150	12-3/4	132	6-1/8	7-7/8	104	7-7/8	1/2	15-3/4	--	9-3/8	1	9-3/8	3-1/8	2-5/8	6‡	323	1155
MHX-1405B-2	130	14	69	5-1/8	7-7/8	44	7-7/8	1/2	17-7/8	4-1/2	10	1	10	3-1/8	1-5/8	4‡	160	955
MHX-1406B-2	140	14	81	5-1/8	7-7/8	56	7-7/8	1/2	17-7/8	4-1/2	10	1	10	3-1/8	2-1/8	4‡	194	1100
MHX-1408B-2	200	14	105	5-1/8	7-7/8	80	7-7/8	1/2	17-7/8	4-1/2	10	1	10	3-1/8	2-1/8	4‡	261	1400
MHX-1410B-1	220	14	139-3/8	9-11/16	7-7/8	104	7-7/8	1/2	17-7/8	--	10	1	10	3-5/8	2-1/8	6	328	1740
MHX-1608B-1	230	16	120-1/2	12-3/8	7-7/8	80	7-7/8	1/2	19-7/8	--	11	1	11	3-5/8	2-1/8	8	328	1750
MHX-1608B-2	275	16	105	5-1/8	7-7/8	80	7-7/8	1/2	19-7/8	5	11	1	11	5-1/8	3-1/8	5‡	328	1780
MHX-1610B-1	330	16	144-1/2	12-3/8	7-7/8	104	7-7/8	1/2	19-7/8	--	11	1	11	5-1/8	3-1/8	8§	412	2095

MARINE CONDENSER

ACME MHX MARINE CONDENSER

CAPACITY & FLOW RATES

R-22 AT 105°F CONDENSING TEMP WITH .00025 TOTAL FOULING, STANDARD MODELS

MHX-602-B-4			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
12	0.8	50,560	66,626	81,948	97,593	112,508	126,670
20	2.0	66,825	87,696	107,730	126,944	146,476	165,795
28	3.8	77,766	101,822	124,708	147,305	169,643	190,880
36	6.1	85,520	111,361	136,280	160,890	185,226	209,317
44	9.0	91,140	119,312	146,403	171,745	196,800	223,038

MHX-602-D-4			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
20	1.2	78,720	103,367	126,701	150,686	173,390	195,808
30	2.5	96,607	126,441	155,862	184,923	211,918	238,587
40	4.3	109,214	143,355	175,832	207,905	238,385	268,521
50	6.6	119,083	155,068	191,346	224,040	259,517	291,464
60	9.3	126,340	165,095	201,400	238,223	274,658	306,827

MHX-603-D-4			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
20	1.5	102,983	135,900	168,158	200,005	230,951	262,055
30	3.1	132,010	173,934	214,711	253,731	293,532	331,613
40	5.3	153,507	202,020	247,938	293,264	338,066	382,394
50	8.1	170,052	222,669	273,227	323,160	372,541	421,428
60	11.4	182,485	238,527	295,556	348,481	400,827	452,652

MHX-604-D-4			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
15	1.0	95,096	125,897	156,457	186,626	216,721	246,442
25	2.7	139,443	184,108	228,181	271,618	314,547	356,667
35	5.0	173,192	228,380	281,866	334,655	386,832	438,456
45	7.9	199,783	262,021	323,403	384,060	444,081	501,583
55	11.5	220,750	289,284	356,904	422,437	488,593	551,433

MHX-605-D-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
30	0.7	157,494	207,766	257,037	305,624	353,588	400,977
50	1.8	218,536	286,998	353,471	420,127	483,853	546,799
70	3.3	260,399	342,055	422,636	500,471	573,746	649,852
90	5.2	293,650	383,500	469,606	557,159	638,646	724,391
110	7.6	318,342	414,779	509,908	600,638	693,646	779,121

MHX-606-D-4			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
30	0.8	172,201	227,603	282,261	336,204	389,417	441,939
50	2.0	244,144	321,521	397,086	471,664	545,360	618,251
70	3.7	297,126	389,405	480,402	570,297	657,614	743,984
90	5.9	335,097	440,092	543,725	643,869	738,219	836,228
110	8.5	367,002	481,408	591,304	696,828	804,233	904,378

GTD refers to the difference between the condensing temperature and the inlet water temperature.

MARINE CONDENSER

ACME MHX MARINE CONDENSER

CAPACITY & FLOW RATES

R-22 AT 105°F CONDENSING TEMP WITH .00025 TOTAL FOULING, STANDARD MODELS

MHX-805-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
50	0.9	249,925	328,949	407,492	483,645	558,788	633,002
75	1.9	320,218	421,353	519,530	614,799	708,870	801,845
100	3.2	371,999	488,650	603,766	714,959	819,637	928,360
125	4.8	414,926	540,920	665,167	787,913	902,239	1,022,379
150	6.7	445,131	583,150	714,968	845,183	969,526	1,097,021
175	9.0	473,587	616,221	756,928	890,652	1,022,879	1,153,756

MHX-806-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
50	1.0	275,113	363,351	450,183	535,892	619,855	703,531
75	2.1	359,908	473,088	584,665	694,854	801,137	908,864
100	3.6	424,466	556,293	686,288	814,711	939,448	1,062,834
125	5.4	472,736	619,956	765,215	908,803	1,041,226	1,178,598
150	7.6	514,247	670,757	831,203	981,706	1,130,552	1,269,519
175	10.1	549,195	714,953	883,450	1,040,014	1,194,826	1,348,059

MHX-808-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
40	0.8	259,592	344,395	427,997	511,705	593,226	675,860
60	1.7	357,202	472,291	585,824	698,276	809,362	919,204
80	2.9	437,612	577,396	714,751	850,868	985,522	1,117,411
100	4.4	504,942	665,206	822,042	976,917	1,128,593	1,278,582
120	6.1	561,765	739,048	909,767	1,082,625	1,249,229	1,414,041
140	8.1	608,184	799,040	987,383	1,173,603	1,351,843	1,528,174
160	10.4	651,529	852,808	1,051,343	1,247,568	1,434,131	1,626,415

MHX-1005-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
80	1.0	390,865	514,867	635,941	755,372	873,321	989,905
110	1.8	474,969	624,349	771,711	912,511	1,051,505	1,188,844
140	2.8	542,127	709,175	873,887	1,036,578	1,193,888	1,349,455
170	4.1	595,655	777,466	956,751	1,133,860	1,304,351	1,472,995
200	5.5	639,572	836,834	1,025,794	1,212,420	1,391,201	1,568,021
230	7.1	671,013	881,069	1,081,654	1,279,842	1,475,926	1,656,249
260	9.0	705,845	918,470	1,128,195	1,335,456	1,540,565	1,735,715

MHX-1006-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
80	1.1	431,633	569,721	705,354	839,857	971,394	1,101,292
110	2.0	531,412	700,221	866,804	1,029,625	1,186,757	1,341,899
140	3.2	612,681	804,445	990,694	1,177,509	1,356,232	1,532,877
170	4.6	679,512	886,714	1,094,941	1,300,749	1,496,037	1,689,135
200	6.2	730,974	961,529	1,184,002	1,393,373	1,610,762	1,815,363
230	8.0	779,794	1,021,033	1,252,812	1,481,772	1,708,253	1,932,515
260	10.0	818,554	1,065,666	1,316,760	1,550,175	1,795,994	2,009,348

GTD refers to the difference between the condensing temperature and the inlet water temperature.

MARINE CONDENSER

ACME MHX MARINE CONDENSER

CAPACITY & FLOWRATES

R-22 AT 105°F CONDENSING TEMP WITH .00025 TOTAL FOULING, STANDARD MODELS

MHX-1008-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
90	1.7	535,804	708,436	878,736	1,047,414	1,214,043	1,378,806
120	2.9	656,419	866,094	1,072,126	1,276,302	1,478,283	1,676,117
150	4.4	757,413	997,809	1,233,062	1,465,376	1,692,890	1,917,873
180	6.2	842,648	1,108,572	1,364,650	1,623,938	1,873,844	2,121,061
210	8.2	912,277	1,198,559	1,481,074	1,760,405	2,027,764	2,292,261
240	10.5	977,294	1,279,211	1,577,015	1,871,352	2,151,196	2,439,623

MHX-1205-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
80	0.6	434,571	573,741	710,936	845,169	978,847	1,109,526
120	1.3	571,765	754,067	932,006	1,103,516	1,276,982	1,444,098
160	2.3	679,982	891,367	1,103,245	1,305,515	1,505,281	1,702,756
200	3.4	764,993	1,002,033	1,235,811	1,461,698	1,684,917	1,905,710
240	4.8	832,453	1,094,730	1,340,702	1,590,011	1,836,637	2,074-119

MHX-1206-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
80	0.7	472,445	625,484	775,779	924,810	1,071,578	1,216,612
120	1.5	634,168	836,260	1,035,512	1,231,044	1,424,134	1,612,077
160	2.5	761,843	1,004,530	1,241,455	1,469,889	1,701,102	1,923,981
200	3.8	865,921	1,138,008	1,406,461	1,663,136	1,925,471	2,176,259
240	5.4	951,312	1,248,483	1,541,695	1,819,849	2,106,467	2,378,348

MHX-1208-A-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
80	0.8	523,016	693,742	862,100	1,032,353	1,97,741	1,361,242
120	1.8	722,907	956,246	1,186,950	1,415,556	1,641,222	1,864,225
160	3.0	888,914	1,173,608	1,453,886	1,729,713	2,003,129	2,273,696
200	4.5	1,027,834	1,355,820	1,677,335	1,994,985	2,303,852	2,614,736
240	6.4	1,145,318	1,509,619	1,865,391	2,208,661	2,556,246	2,891,670

MHX-1208-A-1			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
200	0.5	905,280	1,191,110	1,472,894	1,751,098	2,021,952	2,281,132
300	1.1	1,148,319	1,504,462	1,855,584	2,194,694	2,529,591	2,860,624
400	1.9	1,328,860	1,732,695	2,130,804	2,523,929	2,889,836	3,274,171
500	2.9	1,455,920	1,912,051	2,347,428	2,777,473	2,172,689	3,593,421
600	4.0	1,561,726	2,042,768	2,517,420	2,967,998	3,413,533	3,854,520
700	5.3	1,648,226	2,160,296	2,643,634	3,121,119	3,571,197	4,016,454

MHX-1210-A-1			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
200	0.7	1,030,031	1,359,449	1,682,245	2,000,819	2,310,308	2,621,212
300	1.4	1,332,726	1,748,748	2,158,811	2,563,686	2,963,912	3,346,811
400	2.3	1,557,675	2,047,303	2,520,735	2,978,336	2,430,373	3,877,338
500	3.4	1,732,282	2,278,035	2.789,808	3,294,993	2,794,293	4,288,265
600	4.8	1,881,939	2,450,200	3,010,605	3,564,278	4,094,544	4,619,196
700	6.3	1,989,677	2,598,260	3,198,740	3,771,317	4,337,588	4,876,960

GTD refers to the difference between the condensing temperature and the inlet water temperature.

MARINE CONDENSER

ACME MHX MARINE CONDENSER

CAPACITY & FLOWRATES

R-22 AT 105°F CONDENSING TEMP WITH .00025 TOTAL FOULING, STANDARD MC

MHX-1406-B-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
150	0.9	844,265	1,115,290	1,382,501	1,646,349	1,906,442	2,161,663
225	2.0	1,111,799	1,466,553	1,810,259	2,149,316	2,484,226	2,815,353
300	3.4	1,317,364	1,735,679	2,142,548	2,531,849	2,929,133	3,309,228
375	5.1	1,481,903	1,944,822	2,401,628	2,834,825	3,262,818	3,704,980
450	7.1	1,613,300	2,114,104	2,608,302	3,072,895	3,556,204	4,010,453

MHX-1408-B-2			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
150	1.1	948,750	1,256,947	1,560,851	1,863,828	2,162,891	2,458,387
225	2.4	1,286,854	1,700,402	2,108,041	2,510,253	2,907,315	3,299,741
300	4.1	1,559,979	2,057,068	2.547,705	3,029,294	3,497,968	3,968,908
375	6.1	1,783,975	2,345,473	2,899,375	3,440,257	3,981,802	4,504,254
450	8.6	1,970,847	2,586,912	3,185,472	3,786,115	4,361,224	4,930,105

MHX-1410-B-1			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
400	1.2	1,883,138	2,478,733	3,066,118	3,646,320	4,205,116	4,756,982
500	1.8	2,154,505	2,832,020	3,479,107	4,139,047	4,769,550	5,392,658
600	2.5	2.372,868	3,114,623	3,846,417	4,540,181	5,225,288	5,932,772
700	3.3	2.557,658	3,364,904	4,143,675	4,876,246	5,636,721	6,351,976
800	4.2	2,721,493	3,563,935	4,373,270	5,172,413	5,962,519	6,744,479
900	5.3	2,876,649	3,738,465	4,588,115	5,453,018	6,257,171	7,052,584
1000	6.4	2,977,533	3,900,628	4,811,657	5,682,896	6,544,668	7,338,160

7,304,307			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
200	1.0	1,278,131	1,694,417	2,107,411	2,514,915	2,917,480	3,319,375
300	2.1	1.745,944	2,307,603	2,861,485	3,408,633	3,949,446	4,484,482
400	3.5	2,125,899	2,805,477	3,469,349	4,124,366	4,771,609	5,411,831
500	5.3	2,439,704	3,211,795	3,966,012	4,710,841	5,447,417	6,176,567
600	7.4	2,702,814	3,553,387	4,381,184	5,198,898	6,007,783	6,783,500
700	9.9	2,929,201	3,841,633	4,742,009	4,742,009	5,616,246	6,448,586

MHX-1608-B-1			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
600	1.0	2,398,955	3,145,751	3,867,785	4,594,629	5,283,449	5,963,632
800	1.7	2,774,164	3,648,947	4,469,013	5,299,920	6,121,492	6,867,130
1000	2.6	3,082,744	4,022,197	4,948,606	5,834,513	6,709,853	7,575,562
1200	3.6	3,325,458	4,317,691	5,332,128	6,261,945	7,254,062	8,162,880
1400	4.8	3,506,522	4,584,370	5,626,152	6,611,761	7,629,849	8,549,796
1600	6.2	3,664,708	4,768,331	5,856,876	6,932,625	7,945,949	8,948,775

MHX-1610-B-1			TOTAL HEAT OF REJECTION AT SPECIFIED GTD				
GPM	ΔP	15° F GTD	20° F GTD	25° F GTD	30° F GTD	35° F GTD	40° F GTD
600	1.2	2,768,593	3,636,353	4,491,697	5,336,207	6,159,148	6,972,468
800	2.0	3,257,808	4,266,168	5,260,240	6,241,936	7,212,611	8,133.921
1000	3.1	3,643,228	4,767,579	5,876,502	6,945,772	8,029,306	9,048,047
1200	4.3	3,943,105	5,182,805	6,373,212	7,549,381	8,644,687	9,796,210
1400	5.7	4,223,696	5,521,123	6,760,535	7,984,712	9,195,424	10,394,057
1600	7.3	4,437,197	5,760,396	7,113,280	8,354,352	9,678,506	10,892,895

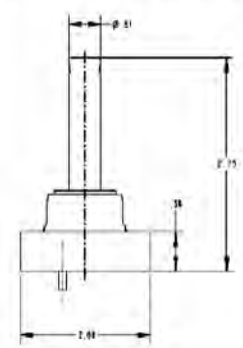
GTD refers to the difference between the condensing temperature and the inlet water temperature

MARINE CONDENSER
REPLACEMENT PARTS

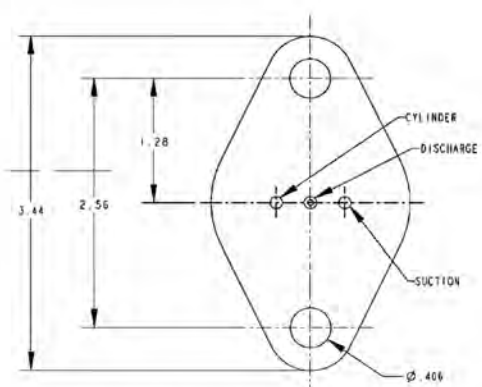
	REPLACEMENT PART NO		
MODEL NO	CONDENSER HEAD	CONDENSER REAR	GASKET
MHX-602B-4	HEAD0011457	HEAD0021178	GASKE020344
MHX-602D-4	HEAD0011457	HEAD0021178	GASKE020344
MHX-603D-4	HEAD0011457	HEAD0021178	GASKE020344
MHX-604D-4	HEAD0011457	HEAD0021178	GASKE020344
MHX-605D-2	HEAD0011457	HEAD0021178	GASKE020344
MHX-606D-2	HEAD0011457	HEAD0021178	GASKE020344
MHX-805A-2	HEAD0021323	HEAD0021330	GASKE020351
MHX-806A-2	HEAD0021323	HEAD0021330	GASKE020351
MHX-808A-2	HEAD0021323	HEAD0021330	GASKE020351
MHX-1005A-2	HEAD0021347	HEAD0021147	GASKE020368
MHX-1006A-2	HEAD0021347	HEAD0021147	GASKE020368
MHX-1008A-2	HEAD0021347	HEAD0021147	GASKE020368
MHX-1205A-2	HEAD0018960	HEAD0021161	GASKE020375
MHX-1206A-2	HEAD0018960	HEAD0021161	GASKE020375
MHX-1208A-1	HEAD0010742	HEAD0010742	GASKE020375
MHX-1208A-2	HEAD0018960	HEAD0021161	GASKE020375
MHX-1210A-1	HEAD0010742	HEAD0010742	GASKE020375
MHX-1405B-2	HEAD0010569	HEAD0011576	GASKE017655
MHX-1406B-2	HEAD0010569	HEAD0011576	GASKE017655
MHX-1408B-2	HEAD0010569	HEAD0011576	GASKE017655
MHX-1410B-1	HEAD0019682 EPOXY	HEAD0021435 EPOXY	0HC141D
MHX-1608B-1	HEAD0021435 EPOXY	HEAD0021435 EPOXY	0HC141D
MHX-1608B-2	HEAD0010711	HEAD0018946	GASKE017781
MHX-1610B-1	HEAD0021435 EPOXY	HEAD0019682 EPOXY	0HC141C

EMERSON 703RC UNLOADER VALVE

DIMENSIONAL DATA



P4602



P4602B

NOTE: Dimensions shown are in inches. Fractions (decimal).
NOTE: Coil sold separately.

APPLICATION
- 3-Way Unloader Valves
- Electrically operated valve for compressor unloading

FEATURES
- Stainless and brass construction
- OEM drop-in reeplacement

SPECIFICATIONS
- Maximum working pressure: 500 psig
- MOPD 300 psig
- Drop-in replacement for Copeland part umber 510-0212-00

NOMENCLATURE
Example: 703RBVLC

703RC	VLC
Valve Series	Coil*

NOTE: Valves are shipped without the solenoid coils (VLC= Valve Less Coil).
See coil section of catalog for information.

PCN*	DESCRIPTION
065131**	703RC-001 AMC 120/50/60
65132	703RC-001 AMC 208-240/50-60
065126**	703RC-001 VLC

**Standard Product Offering.
*Product Code Number.
NOTE: Body gasket not included. Consult compressor manufacturer for body gasket information.

COMPRESSOR VALVES & KITS

MUELLER COMPRESSOR VALVES & KITS

THE INDUSTRY STANDARD

Mueller's compressor valves demonstrate a backseating design, constructed so that the stem forms a seal against a seat whether the stem is full forward or backward. This design allows complete isolation of service when the valve is either fully open or fully closed. In the intermediate position, specialized packing allows gauge and charging port caps and plugs to be accessed without refrigerants loss. Cross reference information is provided to assist in the selection process for all major compressor manufacturers in the industry.

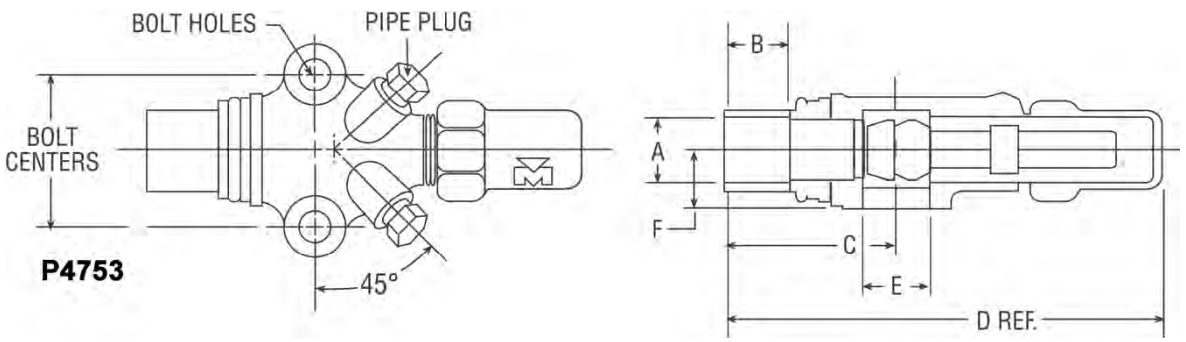
Copeland No	Kit		Copeland No	Kit
998-0510-04	A 17510		998-0510-14	A 17517
998-0510-05	A 17511		998-0510-15	A 17518
998-0510-06	A 17512		998-0510-16	A 17519
998-0510-07	A 17513		998-0510-17	A 17520
998-0510-09	A 17525		998-0510-18	A 17521
998-0510-10	A 17527		998-0510-19	A 17522
998-0510-11	A 17526		998-0510-20	A 17523
998-0510-12	A 17515		998-0510-21	A 17524
998-0510-13	A 17516			

ADVANTAGES:

- Complete service kit including valve body, mounting bolts, cap, and gaskets.
- Compatible with all new refrigerants and oils.
- 700 psig maximum working pressure
- All valves 100% tested.
- Recognized under component program of underwriters laboratories for use in the USA and Canada.

BRASS COMPRESSOR VALVES

Double Port - 45º Flare Type - Steel Cap



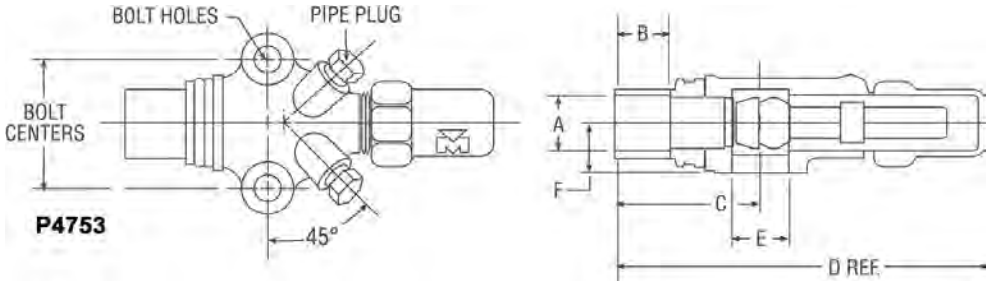
PART NO	Kit	A	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	PIPE PLUG SIZE	FLANGE THICKNESS	Valve Wt	Kit Wt
A 16302	A 17518	3.8	1-3/4	4-7/16	9/16	5/8	1-5/8	11/32	1/8	7/8	1.2	1.24
A 16303	A 17519	1.2	1-7/8	4-11/16	9/16	5/8	1-5/8	11/32	1/8	7/8	1.17	1.2
A 16304	A 17520	5.8	2	4-13/16	9/16	5/8	1-5/8	11/32	1/8	7/8	1.23	1.27

COMPRESSOR VALVES & KITS

MUELLER COMPRESSOR VALVES & KITS

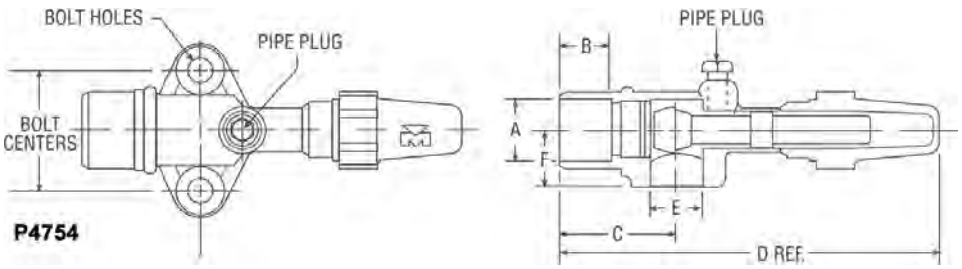
BRASS COMPRESSOR VALVES

Double Port - Solder Type - Steel Cap



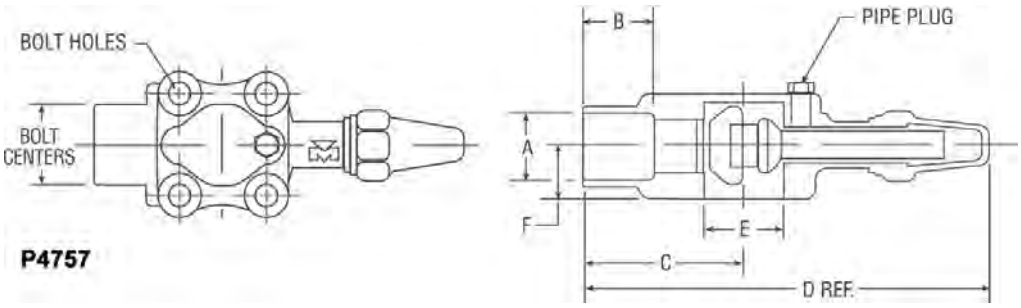
PART NO	Kit	A	B	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	PIPE PLUG SIZE	FLANGE THICKNESS	Valve Wt	Kit Wt
A 16307	A 17510	3/8	5/16	1-1/4	4-5/64	9/16	5/8	1-5/8	11/32	1/8	7/8	0.69	0.73
A 16308	A 17511	1/2	3/8	1-13/32	4-13/64	9/16	5/8	1-5/8	11/32	1/8	7/8	0.86	0.89
A 16309	A 17512	5/5	1/2	1-1/2	4-1/2	9/16	5/8	1-5/8	11/32	1/8	7/8	0.88	0.92

Straight Port - Solder Type - Plastic Cap



PART NO	Kit	A	B	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	PIPE PLUG SIZE	FLANGE THICKNESS	Valve Wt	Kit Wt
A 16310	A 17517	3/4	5/8	1-29/32	6-9/16	13/16	7/8	1-5/8	11/32	1/8	1-21/64	1.64	1.69
A 16311	A 17515	7/8	3/4	1-31/32	6-9/16	13/16	7/8	1-5/8	11/32	1/8	1-21/64	1.63	1.67
A 16317	A 17528	7/8	3/4	1-31/32	6-1/2	13/16	7/8	1-5/8	11/32	1/8	1-21/64	1.63	1.68
B 32197	A 17529	7/8	3/4	1-31/32	6-9/16	13/16	7/8	1-3/4	11/32	1/8	1-21/64	1.42	1.69
A 15500	--	1-1/8	29/32	2-1/16	6-9/16	13/16	7/8	1-5/8	11/32	1/8	1-21/64	1.66	--
A 16312	A 17516	1-1/8	29/32	2-1/16	6-9/16	13/16	7/8	1-5/8	11/32	1/8	1-21/64	1.66	1.71
B 33367	A 17530	1-1/8	29/32	2-17/64	6-9/16	1-1/8	7/8	1-3/4	11/32	1/4	1-21/64	--	--

Flange Union - Solder Type - Brass Cap



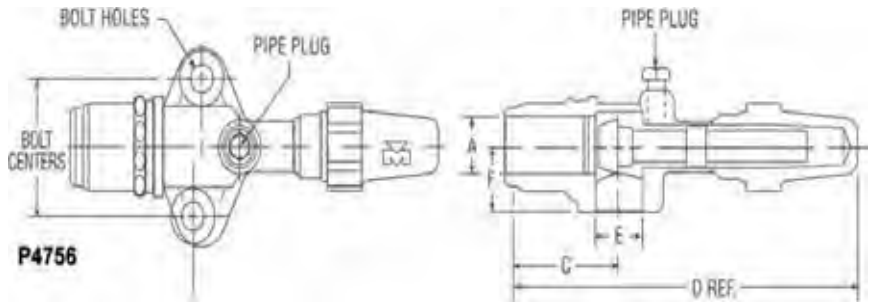
PART NO	Kit	A	B	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	PIPE PLUG SIZE	Flange Bolt Centers	FLANGE THICKNESS	Valve Wt	Kit Wt
A 16313	--	3/4	5/8	2-5/16	7-11/32	1-1/4	1-1/4	2-3/4	17/32	1/8	1-5/8	1	3.93	--
A 16314	A 17527	7/8	3/4	2-5/16	7-11/32	1-1/4	1-1/4	2-3/4	17/32	1/8	1-5/8	1	3.9	4.05
A 16315	A 17525	1-1/8	29/32	2-15/32	7-1/2	1-1/4	1-1/4	2-3/4	17/32	1/8	1-5/8	1	3.88	4.03
A 16316	A 17526	1-3/8	31/32	2-15/32	7-1/2	1-1/4	1-1/4	2-3/4	17/32	1/8	1-5/8	1	3.66	3.8

COMPRESSOR VALVES & KITS

MUELLER COMPRESSOR VALVES & KITS

BRASS COMPRESSOR VALVES

Straight Port - 45° Flare Type - Plastic Cap



PART NO	A	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	PIPE PLUG SIZE	FLANGE THICKNESS	Valve Wt
A 13166	3/4	2-3/8	7	13/16	7/8	1-5/8	11/32	1/8	1-1/4	1-7/8

4-Bolt Mounting Style - Solder Type - Flat Gasket Surface - Plastic Cap

PART NO	Kit	A	B	C	D	E	F	BOLT CEN-	DIA BOLT	PIPE PLUG	Valve	Kit Wt
B 32807	A 17532	1-1/8	29/32	2-23/32	7-5/8	1-9/16	1	2-1/2	17/32	1/4	3.88	4.03
B 32808	A 17533	1-3/8	31/32	2-23/32	7-5/8	1-9/16	1	2-1/2	17/32	1/4	3.66	3.80
B 32930	A 17534	1-5/8	1-3/32	1-3/32	7-5/8	1-9/16	1-1/32	2-11/2	17/32	1/4	3.90	4.05

CAST IRON COMPRESSOR VALVES

4-Bolt - Cast Iron Compressor Valves

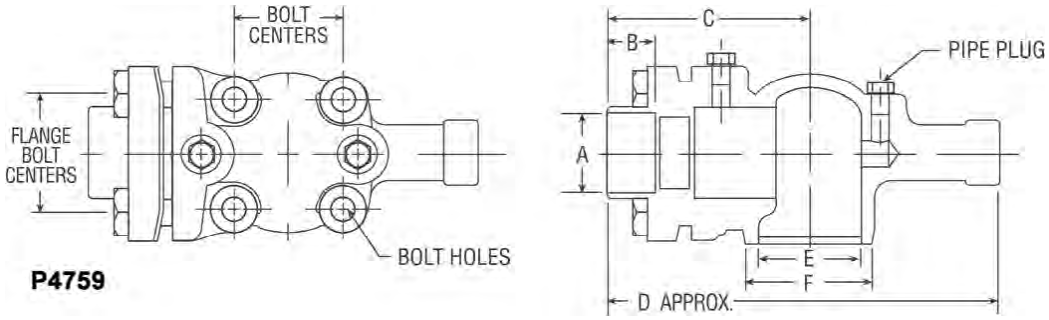
PART NO	Kit	A	B	C	D	E	F	BOLT CEN-TERS	DIA BOLT HOLES	PIPE PLUG SIZE	Flange Bolt Cen-ters	Seal Cap Material	Valve Wt	Kit Wt
B 33813	--	1-3/8	31/32	4-13/32	9-29/32	2-1/8	2-3/4	2-1/2	17/32	1/4	2-1/8	Cast Iron	9.43	--
A 15246	--	1-5/8	1-3/32	3-61/64	9-15/32	2-1/8	2-3/4	2-1/2	17/32	1/4	2-1/8	Valox	9.37	--
A 16321	A 17513	1-5/8	1-3/32	4-19/32	10-3/64	2-1/8	2-3/4	2-1/2	17/32	1/4	2-1/8	Valox	8.72	8.92
A 16367	A 17524	1-5/8	1-3/32	5-1/4	11 29/32	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	18.20	18.61
A 16496	--	1-5/8	1-3/32	3-61/64	9-15/32	2-1/8	2-3/4	2-1/2	17/32	1/4	2-1/8	Valox	8.74	--
B 32337	--	1-5/8	1-3/32	3-61/64	9-15/32	2-1/8	2-3/4	2-1/2	17/32	1/4	2-1/8	Valox	9.07	--
B 33770	--	1-5/8	1-3/32	4-19/32	10 1/64	2-1/8	2-3/4	2-1/2	17/32	1/4	2-1/8	Cast Iron	8.46	--
B 33842	--	1-5/8	1-3/32	5-1/4	11-29/32	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Cast Iron	18.97	--
B 33784	--	2	1-9/32	5-1/64	11-55/64	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	16.42	--
A 15586	A 17535	2-1/8	1-5/16	5-1/16	11-61/64	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	18.28	6.69
A 16324	A 17523	2-1/8	1-5/16	5-1/16	11-61/64	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	18.28	18.69
A 16493	--	2-1/8	1-5/16	5-1/16	11-61/64	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	17.71	--
B 33572	--	2-1/8	1-5/16	5-1/16	11-61/64	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	17.49	--
B 34429	--	2-1/8	1-5/16	5-1/16	11-61/64	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	17.28	--
B 34671	--	2-1/8	1-5/16	5-1/16	11-61/64	2-33/64	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	17.28	--
A 15587	--	2-5/8	1-9/32	5-1/64	12-1/16	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	20.30	--
A 16366	A 17522	2-5/8	1-15/32	6-1/2	15-1/8	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Cast Iron	33.18	3.73
B 33568	--	2-5/8	1-9/32	5-1/64	11-29/32	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	20.23	--
B 34314	--	2-5/8	1-15/32	6-1/2	15-1/8	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Cast Iron	30.80	--
B 34582	--	2-5/8	1-17/64	5-3/64	11-29/32	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	--	--
B 34661	--	2-5/8	1-15/32	6-1/2	15-1/8	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Cast Iron	30.80	--
A 15588	--	3-1/8	1-7/32	5-15/16	14-39/64	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Cast Iron	33.22	--
A 16365	A 17521	3-1/8	1-7/32	5-15/16	14-39/64	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Cast Iron	33.22	33.77
B 33569	--	3-1/8	1-7/32	5-15/16	14-39/64	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Cast Iron	32.38	--
A 17496	--	3-5/8	2-1/16	7	16-19/64	3-7/8	4-35/64	4-1/4	11/16	1/4	4-1/4	Cast Iron	34.01	--
B 33788	--	3-5/8	2-1/16	7	16-19/64	3-7/8	4-35/64	4-1/4	11/16	1/4	4-1/4	Cast Iron	34.01	--
B 34315	--	3-5/8	2-1/16	7	16-19/64	3-7/8	4-35/64	4-1/4	11/16	1/4	4-1/4	Cast Iron	40.51	--
B 34670	--	3-5/8	2-1/16	7	16-19/64	3-7/8	4-9/64	4-1/4	11/16	1/4	4-1/4	Cast Iron	40.51	--
A 15589	--	4-1/8	1-31/32	7-7/32	17-1/2	4-3/8	5-1/8	4-3/16	13/16	1/4	4-13/16	Cast Iron	49.80	--

COMPRESSOR VALVES & KITS

MUELLER COMPRESSOR VALVES & KITS

CAST IRON COMPRESSOR VALVES

4-Bolt - Cast Iron Compressor Valves Without Flange



PART NO	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	PIPE PLUG SIZE	Flange Bolt Centers	Seal Cap Material	Valve Wt
B 33793	3-9/32	10-11/64	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	12.58
B 33794	3-25/32	12-7/16	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Cast Iron	22.05
B 34183	2-11/16	8-3/32	2-1/8	2-3/4	2-1/2	17/32	1/4	2-1/8	Valox	6.91
B 34497	3-63/64	13-1/4	3-7/8	4-35/64	4-1/4	11/16	1/4	4-1/4	Cast Iron	34.00
B 34498	3-9/32	10-1/8	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	17.28
B 34715	3-25/32	13	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	Steel	22.05
B 34761	3-9/32	10-11/64	2-17/32	3-1/32	3-1/16	11/16	1/4	3-1/16	Valox	13.00
B 34929**	4-9/16	14-53/64	4-3/8	5-1/8	4-13/16	13/16	1/4	4-13/16	Cast Iron	37.00
B 35049	3-9/32	10-1/8	2-17/32	3-7/32	3-1/16	11/16	1/4	3-1/16	Valox	12.97

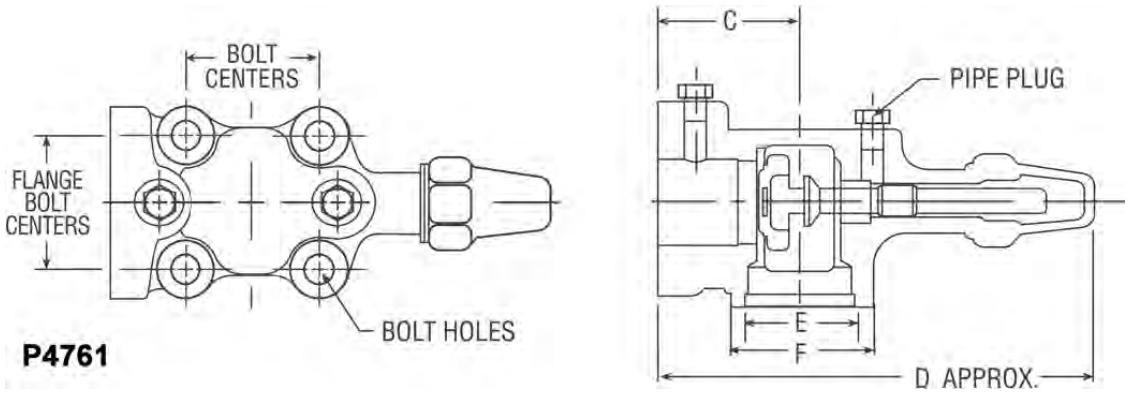
** Does not include coupling and bolts

4-Bolt - Cast Iron Flanges

PART NO	A	B	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	PIPE PLUG SIZE	Flange Bolt Centers	Valve Wt
B 34987*	2-5/8	1-15/32	6-1/2	12-35/64	3-11/32	4-5/32	3-7/8	11/16	1/4	3-7/8	28.50
B 34988*	3-5/8	2-1/16	7	13-39/64	3-7/8	4-9/16	4-1/4	11/16	1/4	4-1/4	33.50

* Does not include Seat and Stem

Ammonia Valves



PART NO	C	D	E	F	BOLT CENTERS	DIA BOLT HOLES	Flange Bolt Centers	Seal Cap Material	Valve Wt
B 35308	3-9/32	10-11/64	2-17/32	3-7/32	3-1/16	11/16	3-1/16	Valox	13.02
B 35358	3-25/32	12-7/16	3-11/32	4-5/32	3-7/8	11/16	3-1/16	Cast Iron	22.05

COMPRESSOR VALVES & KITS

MUELLER COMPRESSOR VALVES & KITS

Ammonia Valves

Torques To Seal (ft. - lbs.)

PART NO	Front Seat	Back Seat	Pack Gland	Pipe Plug	Plastic Cap	Brass Cap	Steel Cap	Cast Iron
A 13166								
A 15085	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 15246	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 15500	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 15586	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15587	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15588	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 15589	Max 70							
A 16302	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16303	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16304	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16307	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16308	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16309	14 - 18	14 - 18	8 - 12	2 - 3 Threads Exposed	NA	20 - 30	3 - 5	NA
A 16310	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16311	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16312	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16313	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16314	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16315	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16316	30 - 40	22 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
A 16317	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
A 16321	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16324	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16365	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16366	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16367	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16493	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 16496	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
A 17496	Max 70							
B 32197	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	40 - 50	NA	NA
B 32337	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32807	22 - 40	25 - 45	10 - 15	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32808	22 - 40	25 - 45	10 - 15	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 32930	22 - 40	25 - 45	10 - 15	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33367	22 - 40	25 - 45	15 - 25	2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 33568	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33569	45 - 70	45 - 65	55 - 70	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33572	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33770	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33771	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33784	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33788	50 - 70	50 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 33793	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33794	Max 70	Max 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 33813	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 33842	45 - 65	45 - 65	35 - 45	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34183	45 - 65	45 - 65	25 - 35	2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34314	45 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34315	45 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34429	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34497	50 - 70	50 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34498	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34582	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34661	45 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34670	485 - 65	45 - 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34671	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	Hand Tight
B 34715	Max 70	Max 65		2 - 3 Threads Exposed	NA	NA	Hand Tight	Hand Tight
B 34929	50 - 70	50 - 65		2 - 3 Threads Exposed	NA	NA	NA	Hand Tight
B 34987					NA	NA	NA	NA
B 34988					NA	NA	NA	NA
B 35049	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 35308	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA
B 35358	45 - 65	45 - 65		2 - 3 Threads Exposed	Hand Tight	NA	NA	NA