

Compressors, Chillers & Condensers

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

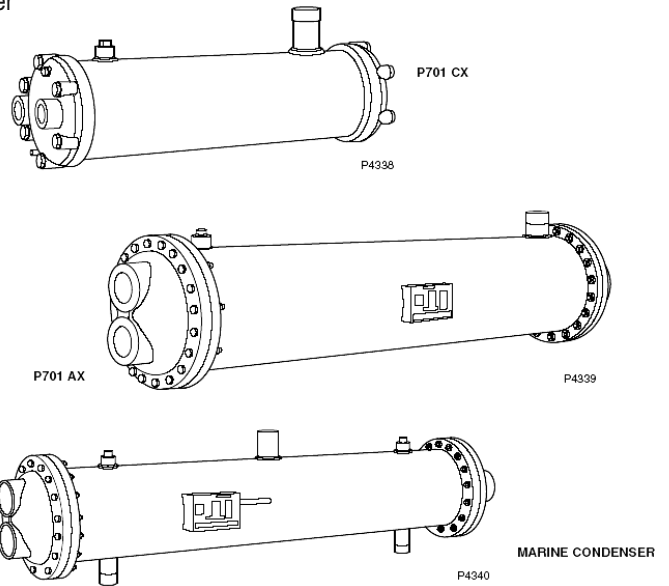
Totaline's water-cooled condensers are designed for a wide range of applications and are available in many models ranging from 5 to 400 nominal tons. Small and large condensers are available for fresh water applications while marine condensers can be special ordered for sea water applications.

Features/Benefits

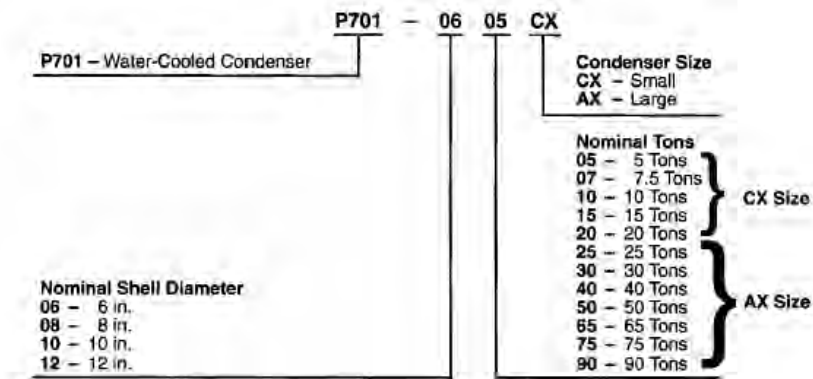
There are many standard condensers to choose from in small and large sizes. In addition, special ordered marine condensers for sea water applications can be ordered through Totaline's part stores.

Totaline's condensers offer the following features and benefits:

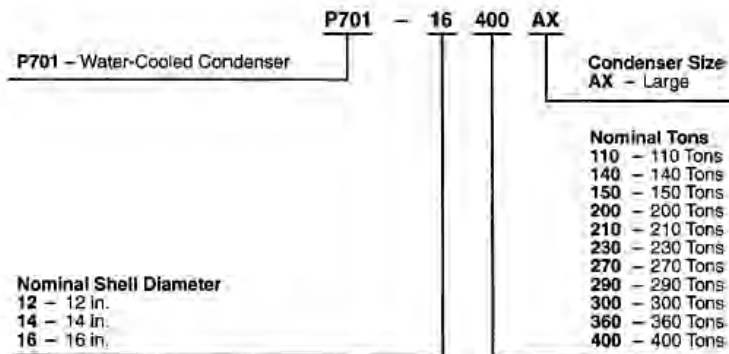
- All condensers conform to ASME specifications.
- Shells are shot blasted and cleaned prior to assembly.
- Quality steel tube supports are made to close tolerance to minimize vibration.
- Exterior surfaces are cleaned and painted with a high quality enamel primer.
- Steel refrigerant connections are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



Model Number Nomenclature 05 TO 09 NOMINAL TONS



110 TO 400 NOMINAL TONS



Compressors, Chillers & Condensers

Compressors, Chillers, Condensers

Motors

Electrical

Heating Components

Indoor Air Quality

Thermostats

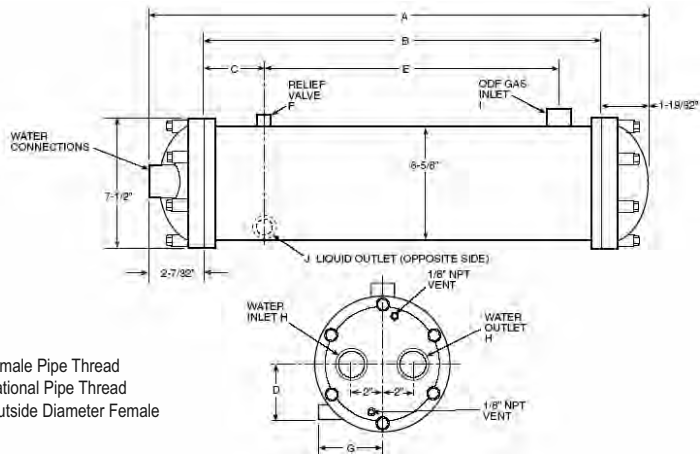
Oils & Chemicals

Accessories, Supplies & Commodities

Tools & Instruments

Refrigeration

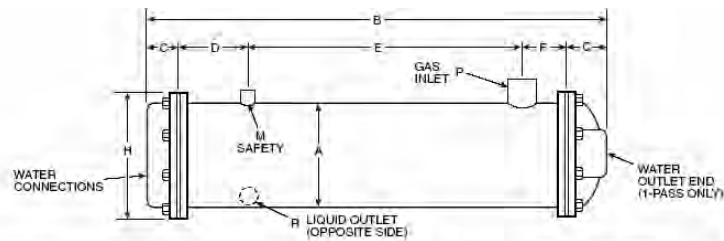
P701 WATER-COOLED CONDENSERS (5 to 400 Nominal Tons) Physical Data and Dimensions P701 CX FRESH WATER CONDENSERS



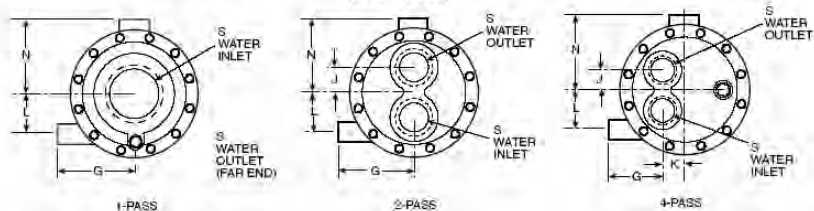
LEGEND
 FPT — Female Pipe Thread
 NPT — National Pipe Thread
 ODF — Outside Diameter Female

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	2 1/4	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	2 1/4	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	4 15/16	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

Compressors, Chillers & Condensers

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 plus 20% 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 Sales Representative.

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:

- 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.
- 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.
- Pump down capacities based on 80% of free shell volume with R-22 at 90 F (per ARI standards).
- Consult Totaline sales representative for marine condenser capacities

Compressors, Chillers & Condensers

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	53,576	66,384	79,002	91,433	103,681
	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	115,098	133,011	150,892
	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	178,400	202,651	228,578
0610CX	10	0.7	62,373	82,680	102,457	122,287	141,818	160,973
	16	1.5	85,363	112,618	139,447	165,852	181,883	217,417
	20	2.5	104,246	137,064	169,356	201,201	232,648	263,167
	25	3.7	120,229	157,722	194,629	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	180,575	235,938	280,611	324,664	368,164
	30	5.4	163,698	215,528	268,358	316,485	365,859	414,241
	35	7.1	180,523	237,819	293,047	347,672	401,108	453,874
	40	9.0	195,650	256,885	316,774	374,406	432,610	488,748
0620CX	15	1.1	101,136	134,027	166,805	199,111	231,647	263,717
	20	1.8	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	175,487	231,510	286,655	341,092	394,800	447,780
	35	5.1	196,393	257,457	318,265	378,366	437,215	495,867
	40	6.5	213,378	280,670	346,918	411,868	475,887	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	407,298	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	356,215	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	778,467
	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	688,528	780,189
	80	2.2	372,012	487,892	603,017	713,803	819,900	927,725
	100	3.3	422,188	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	661,382	799,425	941,663	1,082,025	1,220,703
0850AX	50	1.1	296,824	392,331	488,284	578,850	670,228	760,485
	70	1.9	378,460	496,635	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	1,046,484	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	487,687	655,475	808,070	958,376	1,106,650	1,249,634
	120	2.2	558,018	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
	180	3.7	655,480	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	5.6	731,968	955,731	1,170,825	1,388,102	1,592,145	1,793,632
	220	6.6	764,169	998,751	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.

Compressors, Chillers & Condensers

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.

Compressors, Chillers & Condensers

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.

Compressors, Chillers & Condensers

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

Compressors, Chillers & Condensers

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

LEGEND

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ΔP — Change In Pressure (psi)

NOTES:

1. Total heat of rejection is in Btuh.

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