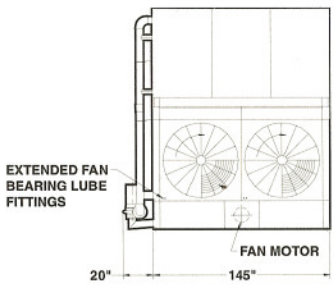
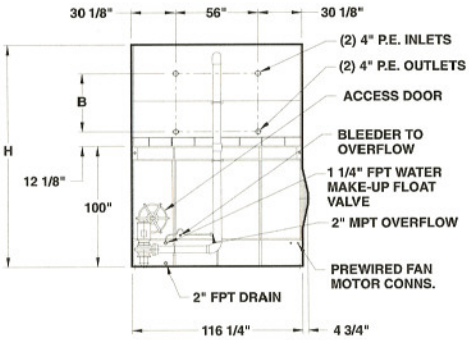
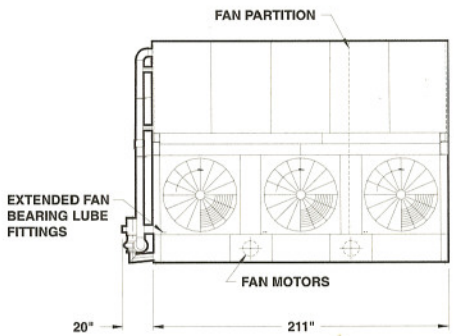
L290—L415



L290—L635



L435—L635



XLP Model[1]	NH3 Tons[2]	CFM	Fan Mtr HP	Spray Water GPM	Pump Mtr HP	REMOTE SUMP Water In[3]	REMOTE SUMP Sump Drain[3]	REMOTE SUMP Gal. Req'd[4]	DIMENSIONS Height H	DIMENSIONS Ctrs B	Refrig. Charge NH3 lbs.[5]	WEIGHTS Unit Shipping[6]	WEIGHTS Unit Operating[7]	WEIGHTS Heaviest Section
L290	205.7	52200	7.5	400	3	4*	8†	325	166.25	27.5	330	12715	18931	8840
L300	212.8	57500	10	400	3	4*	8†	325	166.25	27.5	330	12740	18956	8840
L315	223.4	50600	7.5	400	3	4*	8†	325	173.5	34.75	410	14655	20952	10780
L330	234	49000	7.5	400	3	4*	8†	325	180.25	42	490	16475	22852	12600
L335	237.6	65800	15	400	3	4*	8†	325	166.25	27.5	330	12790	19006	8840
L345	244.7	55700	10	400	3	4*	8†	325	173.5	34.75	410	14680	20977	10780
L350	248.2	70000	20	400	3	4*	8†	325	166.25	27.5	330	12840	19056	8840
L355	251.8	54000	10	400	3	4*	8†	325	180.25	42	490	16500	22877	12600
L375	266	63700	15	400	3	4*	8†	325	173.5	34.75	410	14730	21027	10780
L390	276.6	69000	20	400	3	4*	8†	325	173.5	34.75	410	14780	21077	10780
L405	287.2	61500	15	400	3	4*	8†	325	180.25	42	490	16550	22927	12600
L415	294.3	68000	20	400	3	4*	8†	325	180.25	42	490	16600	22977	12600
L435	308.5	78300	7.5 & 5	600	5	4*	8†	500	166.25	27.5	480	18440	27706	12790
L460	326.2	86200	10 & 5	600	5	4*	8†	500	166.25	27.5	480	18490	27756	12790
L475	336.8	75800	7.5 & 5	600	5	4*	8†	500	173.5	34.75	600	21280	30662	15630
L505	358.1	98700	15 & 7.5	600	5	4*	8†	500	166.25	27.5	480	18540	27806	12790
L510	361.7	83400	10 & 5	600	5	4*	8†	500	173.5	34.5	600	21330	30712	15630
L520	368.8	101800	20 & 10	600	5	4*	8†	500	166.25	27.5	480	18590	27856	12790
L565	400.7	95400	15 & 7.5	600	5	4*	8†	500	173.5	34.75	600	21380	30762	15630
L575	407.8	101100	20 & 10	600	5	4*	8†	500	173.5	34.75	600	21430	30812	15630
L590	418.4	92160	15 & 7.5	600	5	4*	8†	500	180.25	42	720	24000	33497	18300
L635	450.3	101950	20 & 10	600	5	4*	8†	500	180.25	42	720	24100	33597	18300

*Male Pipe Thread †Plain End

Do not use for construction—product drawings available on request.
Footnotes are listed on page 13.

XLP Model	Heat Rejection (MBH)
S 90	1,323.0
S 100	1,470.0
S 110	1,617.0
S 115	1,690.5
S 120	1,764.0
S 125	1,837.5
S 130	1,911.0
S 135	1,984.5
S 140	2,058.0
S 145	2,131.5
S 150	2,205.0
S 155	2,278.5
M 155	2,278.5
S 160	2,352.0
S 165	2,425.5
S 170	2,499.0
M 170	2,499.0
S 175	2,572.5
S 180	2,646.0
S 185	2,719.5
M 185	2,719.5
S 190	2,793.0
M 190	2,793.0
S 195	2,866.5
M 195	2,866.5
S 200	2,940.0
M 200	2,940.0
S 205	3,013.5
M 205	3,013.5
S 210	3,087.0
M 210	3,087.0
S 220	3,234.0
M 220	3,234.0
M 225	3,307.5
S 230	3,381.0
M 235	3,454.5
ML 235	3,454.5
S 240	3,528.0
M 240	3,528.0
M 245	3,601.5
S 250	3,675.0
M 260	3,822.0
ML 260	3,822.0
ML 265	3,895.5
S 270	3,969.0
M 270	3,969.0
ML 270	3,969.0
M 280	4,116.0
ML 280	4,116.0
M 285	4,189.5
ML 290	4,263.0

XLP Model	Heat Rejection (MBH)
L 290	4,263.0
ML 295	4,336.5
ML 300	4,410.0
L 300	4,410.0
M 305	4,483.5
ML 305	4,483.5
M 310	4,557.0
L 315	4,630.5
M 320	4,704.0
ML 320	4,704.0
ML 330	4,851.0
L 330	4,851.0
M 335	4,924.5
L 335	4,924.5
M 340	4,998.0
ML 345	5,071.5
L 345	5,071.5
ML 350	5,145.0
L 350	5,145.0
M 355	5,218.5
L 355	5,218.5
XL 355	5,218.5
M 360	5,292.0
M 370	5,439.0
L 375	5,512.5
ML 380	5,586.0
ML 385	5,659.5
L 390	5,733.0
XL 390	5,733.0
M 395	5,806.5
ML 395	5,806.5
XL 395	5,806.5
M 405	5,953.5
L 405	5,953.5
ML 410	6,027.0
L 415	6,100.5
XL 415	6,100.5
ML 425	6,247.5
XL 425	6,247.5
M 430	6,321.0
ML 430	6,321.0
L 435	6,394.5
XL 435	6,394.5
XL 440	6,468.0
ML 445	6,541.5
ML 450	6,615.0
L 460	6,762.0
XL 470	6,909.0
ML 475	6,982.5
L 475	6,982.5
XL 475	6,982.5

XLP Model	Heat Rejection (MBH)
ML 490	7,203.0
XL 495	7,276.5
L 505	7,423.5
XL 505	7,423.5
L 510	7,497.0
ML 520	7,644.0
L 520	7,644.0
XL 530	7,791.0
XL 535	7,864.5
L 565	8,305.5
L 575	8,452.5
L 590	8,673.0
XL 590	8,673.0
XL 600	8,820.0
XL 630	9,261.0
L 635	9,334.5
XL 640	9,408.0
XL 660	9,702.0
XL 665	9,775.5
XL 710	10,437.0
XL 715	10,510.5
XL 745	10,951.5
XL 765	11,245.5
XL 785	11,539.5
XL 805	11,833.5
M 810-2	11,907.0
L 810-2	11,907.0
ML 820-2	12,054.0
XL 830	12,201.0
L 830-2	12,201.0
XL 830-2	12,201.0
XL 845	12,421.5
ML 850-2	12,495.0
XL 850-2	12,495.0
M 860-2	12,642.0
ML 860-2	12,642.0
XL 870	12,789.0
L 870-2	12,789.0
XL 870-2	12,789.0
XL 880-2	12,936.0
ML 890-2	13,083.0
XL 895	13,156.6
ML 900-2	13,230.0
L 920-2	13,524.0
XL 940	13,818.0
XL 940-2	13,818.0
ML 950-2	13,965.0
L 950-2	13,965.0
XL 950-2	13,965.0
ML 980-2	14,406.0
XL 990-2	14,553.0

XLP Model	Heat Rejection (MBH)
L 1010-2	14,847.0
XL1010-2	14,847.0
L 1020-2	14,994.0
ML1040-2	15,288.0
L 1040-2	15,288.0
XL1060-2	15,582.0
XL1070-2	15,729.0
L 1130-2	16,611.0
L 1150-2	16,905.0
L 1180-2	17,346.0
XL1180-2	17,346.0
XL1200-2	17,640.0
XL1260-2	18,522.0
L 1270-2	18,669.0
XL1280-2	18,816.0
XL1320-2	19,404.0
XL1330-2	19,551.0
XL1420-2	20,874.0
XL1430-2	21,021.0
XL1490-2	21,903.0
XL1530-2	22,491.0
XL1570-2	23,079.0
XL1610-2	23,667.0
XL1660-2	24,402.0
XL1690-2	24,843.0
XL1740-2	25,578.0
XL1790-2	26,313.0
XL1880-2	27,636.0

XLC Model	Heat Rejection (MBH)
25	367.5
28	411.6
30	441.0
35	514.5
38	558.6
40	588.0
43	632.1
50	735.0
55	808.5
58	852.6
60	882.0
68	999.6
75	1,102.5
78	1,146.6
80	1,176.0
85	1,249.5
90	1,323.0
95	1,396.5
100	1,470.0
108	1,587.6
110	1,617.0
115	1,690.5
120	1,764.0
128	1,881.6
130	1,911.0
140	2,058.0
145	2,131.5
150	2,205.0
155	2,278.5
160	2,352.0
165	2,425.5
170	2,499.0
185	2,719.5
195	2,866.5
205	3,013.5
220	3,234.0
230	3,381.0
235	3,454.5
250	3,675.0
285	4,189.5
300	4,410.0
310	4,557.0
340	4,998.0
350	5,145.0
365	5,365.5
385	5,659.5
410-2	6,027.0
440-2	6,468.0
460-2	6,762.0
470-2	6,909.0
500-2	7,350.0
570-2	8,379.0
600-2	8,820.0
620-2	9,114.0
680-2	9,996.0
700-2	10,290.0
730-2	10,731.0
770-2	11,319.0

EXAMPLE 2 Hermetic Compressors

Known: Refrigerant = R-22
Compressor Evaporator Capacity = 100 tons
Compressor KW = 75
Condensing Temperature = +95°F
Wet Bulb Temperature = +76°F

Solution: Establish Total Heat of Rejection.

Compressor Evaporator Capacity = 100 x 12,000 = 1,200,000 BTUH
Compressor KW input = 75 x 3,415 = 256,125 BTUH
Total Heat of Rejection = 1,456,125 BTUH

Table 5 shows a capacity factor of 1.49 for 95°F Condensing Temperature and 76°F Wet Bulb Temperature of R-22 refrigerant. Multiply the system Total Heat of Rejection of 1,456,125 BTUH by the established capacity factor of 1.49:

1,456,125 x 1.49 = 2,169,626 BTUH (2,169,6 MBH)

From page 12, select a model with a base THR in MBH equal to or greater than 2,169.6 MBH. In this example, select an XLP-S 150 or XLC-150.

TABLE 5—HEAT OF REJECTION CAPACITY FACTORS—R-22

Cond. Temp.	Condensing Pressure (psig)		Entering Air Wet Bulb Temperature (°F)																
(°F)	R-22	R-134a	50°	55°	60°	62°	64°	66°	68°	70°	72°	74°	75°	76°	77°	78°	79°	80°	82°	84°
60	101.6	57.4	4.17	7.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
65	111.2	64.0	2.70	3.85	7.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
70	121.4	71.1	1.96	2.50	3.64	4.54	5.88	—	—	—	—	—	—	—	—	—	—	—	—	—
75	132.2	78.6	1.59	1.85	2.38	2.70	3.12	3.85	4.76	—	—	—	—	—	—	—	—	—	—	—
80	143.6	86.7	1.28	1.47	1.75	1.88	2.08	2.35	2.70	3.23	—	—	—	—	—	—	—	—	—	—
85	155.7	95.2	1.10	1.22	1.39	1.49	1.61	1.75	1.92	2.17	2.44	2.78	2.94	3.23	—	—	—	—	—	—
90	168.4	104.3	0.93	1.00	1.15	1.22	1.30	1.39	1.47	1.59	1.72	1.89	2.00	2.13	2.27	2.38	2.56	2.78	3.23	—
95	181.8	113.9	0.80	0.85	0.96	1.01	1.05	1.11	1.16	1.22	1.28	1.37	1.43	1.49	1.56	1.64	1.72	1.82	2.08	2.38
100	195.9	124.1	0.71	0.76	0.82	0.85	0.88	0.91	0.94	0.98	1.03	1.09	1.11	1.15	1.19	1.23	1.28	1.33	1.47	1.64
105	210.8	134.9	0.63	0.66	0.70	0.72	0.75	0.77	0.80	0.83	0.86	0.90	0.92	0.94	0.97	1.00	1.03	1.06	1.14	1.23
110	226.4	146.3	0.56	0.59	0.62	0.64	0.65	0.68	0.69	0.72	0.75	0.78	0.79	0.81	0.82	0.84	0.86	0.88	0.93	0.98
115	242.7	158.4	—	0.52	0.55	0.56	0.58	0.59	0.61	0.62	0.64	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.75	0.79
120	259.9	171.1	—	—	—	—	—	0.51	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.64	0.66

TABLE 6—HEAT OF REJECTION CAPACITY FACTORS—AMMONIA

Cond. Temp.	Condensing Pressure (psig)	Entering Air Wet Bulb Temperature (°F)																	
(°F)	R-717	50°	55°	60°	62°	64°	66°	68°	70°	72°	74°	75°	76°	77°	78°	79°	80°	82°	84°
60	92.9	3.78	7.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
65	103.1	2.47	3.49	6.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
70	114.1	1.86	2.34	3.24	4.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—
75	125.8	1.46	1.72	2.19	2.47	2.89	3.49	4.39	6.18	—	—	—	—	—	—	—	—	—	—
80	138.3	1.17	1.33	1.60	1.77	1.94	2.19	2.52	2.96	3.68	4.86	5.91	—	—	—	—	—	—	—
85	151.7	1.01	1.11	1.26	1.37	1.46	1.60	1.74	1.94	2.19	2.52	2.72	3.02	—	—	—	—	—	—
90	165.9	0.86	0.91	1.03	1.10	1.16	1.25	1.33	1.45	1.58	1.74	1.84	1.94	2.06	2.19	2.34	2.52	2.89	—
95	181.1	0.73	0.78	0.88	0.92	0.96	1.01	1.05	1.11	1.17	1.25	1.30	1.35	1.40	1.48	1.56	1.64	1.86	2.16
96.3	185.1	0.71	0.75	0.83	0.87	0.90	0.94	0.99	1.04	1.09	1.16	1.20	1.26	1.31	1.36	1.43	1.51	1.72	1.97
100	197.2	0.64	0.69	0.75	0.77	0.80	0.82	0.86	0.89	0.93	0.98	1.01	1.04	1.08	1.11	1.16	1.21	1.33	1.48
105	214.2	0.57	0.60	0.64	0.66	0.68	0.70	0.73	0.76	0.79	0.82	0.84	0.87	0.88	0.91	0.94	0.96	1.03	1.11
110	232.3	0.51	0.53	0.56	0.58	0.59	0.61	0.63	0.65	0.67	0.70	0.71	0.73	0.75	0.76	0.78	0.80	0.84	0.89
115	251.5	—	0.47	0.50	0.51	0.52	0.53	0.55	0.56	0.58	0.60	0.61	0.62	0.63	0.64	0.65	0.67	0.70	0.73
120	271.7	—	—	—	—	—	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.53	0.54	0.55	0.56	0.58	0.60