

HIGH STAGE - CAPACITY and BRAKE HORSEPOWER RATING @ 3550 RPM 60 Hz.

RWB-II 676

R-717		SATURATED INTERMEDIATE TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG					
		75.0 125.8	85.0 151.7	95.0 181.1	105.0 214.2	115.0 251.5	
SATURATED SUCTION TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG (° in Hg)	-40 8.7*	TR BHP	323.9 833.9	311.0 943.0	297.2 1068.0	283.4 1218.5	269.1 1407.3
	-35 5.4*	TR BHP	377.9 873.1	363.5 980.0	348.9 1103.5	333.2 1244.5	317.7 1413.7
	-30 1.6*	TR BHP	438.4 914.6	422.4 1023.6	406.2 1145.0	389.7 1283.6	372.1 1442.3
	-25 1.3	TR BHP	506.1 956.2	488.4 1071.1	470.3 1193.3	452.0 1330.3	433.5 1485.7
	-20 3.6	TR BHP	581.4 996.9	561.9 1118.8	542.0 1247.1	521.6 1383.7	501.1 1537.2
	-15 6.2	TR BHP	664.9 1035.2	643.5 1165.8	621.5 1301.8	599.1 1444.4	576.2 1596.3
	-10 9	TR BHP	757.4 1069.4	733.7 1211.0	709.6 1355.4	684.9 1506.0	659.8 1664.4
	-5 12.2	TR BHP	859.3 1099.8	833.3 1251.3	806.7 1407.5	779.7 1567.1	752.0 1733.7
	0 15.7	TR BHP	971.3 1125.8	942.9 1287.9	913.7 1455.2	884.0 1626.7	853.7 1802.8
	5 19.6	TR BHP	1094.2 1145.7	1063.1 1319.6	1031.2 1498.3	998.5 1682.5	965.4 1870.5
	10 23.8	TR BHP	1228.7 1160.9	1194.6 1345.5	1159.7 1536.4	1124.0 1732.7	1087.5 1935.0
	15 28.4	TR BHP	1375.5 1167.8	1338.2 1365.2	1300.0 1568.8	1261.1 1778.0	1221.3 1993.0
	20 33.5	TR BHP	1536.0 1165.6	1494.7 1378.7	1453.0 1593.8	1410.4 1817.3	1367.0 2046.2
	25 39	TR BHP	1711.6 1159.1	1664.8 1381.3	1619.3 1613.6	1572.8 1849.5	1525.5 2093.0
	30 45	TR BHP	1902.3 1145.3	1850.8 1375.3	1799.8 1623.0	1749.1 1874.4	1697.5 2132.6
	35 51.6	TR BHP	2108.8 1129.0	2052.8 1366.2	1995.6 1620.8	1940.1 1891.2	1883.9 2163.0
	40 58.6	TR BHP	2334.2 1111.2	2271.3 1348.6	2209.2 1613.8	2146.7 1895.4	2085.5 2187.7

NOTE: Capacities Based on 10°F Liquid Subcooling, 10°F Suction Superheat with Superheat not contributing to the refrigeration effect.

HIGH STAGE - CAPACITY and BRAKE HORSEPOWER RATING @ 3550 RPM 60 HZ.

RWB-II 676

R-22		SATURATED INTERMEDIATE TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG					
		75.0 132.2	85.0 155.7	95.0 181.8	105.0 210.7	115.0 242.7	125.0 277.9
SATURATED SUCTION TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG (° in Hg)	-40 TR	387.3	363.9	340.4	316.9	293.2	269.5
	0.5 BHP	985.3	1089.0	1202.6	1329.5	1470.5	1643.8
	-35 TR	442.5	416.4	390.2	364.0	337.7	311.3
	2.6 BHP	1024.3	1130.8	1245.6	1372.0	1507.0	1668.1
	-30 TR	503.7	474.5	445.4	416.1	386.9	357.5
	4.9 BHP	1059.8	1174.0	1291.3	1418.5	1551.9	1706.5
	-25 TR	571.1	538.6	506.2	473.8	441.2	408.7
	7.4 BHP	1090.2	1214.3	1338.7	1467.4	1608.4	1754.6
	-20 TR	644.9	609.4	573.2	537.3	501.2	465.0
	10.2 BHP	1118.8	1250.4	1384.8	1519.1	1661.1	1809.4
	-15 TR	725.8	686.5	647.0	606.9	567.1	527.1
	13.2 BHP	1139.8	1284.6	1426.1	1570.5	1716.8	1865.3
	-10 TR	814.4	771.0	727.4	683.5	639.2	595.1
	16.5 BHP	1155.0	1310.0	1465.5	1617.7	1773.1	1932.3
	-5 TR	911.2	863.2	815.2	767.0	718.3	669.5
	20.1 BHP	1164.4	1330.4	1497.3	1663.0	1825.8	1993.0
	0 TR	1016.4	963.7	910.8	857.9	804.6	750.8
	24 BHP	1170.1	1342.0	1522.4	1702.7	1877.4	2053.3
	5 TR	1130.7	1072.9	1014.8	956.6	898.4	839.4
	28.2 BHP	1173.5	1350.1	1535.9	1729.4	1926.8	2110.4
10 TR	1255.5	1191.1	1127.7	1063.8	999.9	935.8	
32.8 BHP	1179.6	1353.6	1546.3	1750.0	1956.8	2165.2	
15 TR	1389.7	1319.9	1249.8	1180.1	1110.0	1039.8	
37.7 BHP	1178.1	1361.2	1552.4	1762.9	1983.8	2205.6	
20 TR	1535.7	1459.3	1382.0	1305.8	1229.2	1152.4	
43 BHP	1169.0	1363.9	1557.2	1771.7	1999.2	2238.8	
25 TR	1693.3	1608.9	1525.6	1441.2	1358.0	1274.0	
48.8 BHP	1149.0	1357.9	1564.8	1775.0	2010.7	2255.9	
30 TR	1862.1	1771.6	1679.9	1588.2	1496.6	1405.4	
54.9 BHP	1115.6	1344.1	1563.0	1785.5	2017.1	2270.2	
35 TR	2046.1	1945.7	1846.2	1746.7	1646.2	1546.7	
61.5 BHP	1073.3	1316.5	1552.8	1788.8	2024.3	2279.6	
40 TR	2242.5	2133.5	2025.3	1916.8	1808.0	1698.5	
68.5 BHP	1021.6	1275.8	1531.8	1781.4	2033.6	2282.8	

NOTE: Capacities Based on 10°F Liquid Subcooling, 10°F Suction Superheat with Superheat not contributing to the refrigeration effect.

BOOSTER - CAPACITY and BRAKE HORSEPOWER RATING @ 3550 RPM 60 Hz

RWB-II 676

R-717		SATURATED INTERMEDIATE TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG						
		-20.0 3.6	-10.0 9.0	0.0 15.7	10.0 23.8	20.0 33.5	30.0 45.0	40.0 58.6
SATURATED SUCTION TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG (° in Hg)	-80. TR 24.3* BHP	112.7 220.8	108.8 246.3	104.4 273.4	99.5 302.3	94.4 353.9	88.9 436.9	83.1 600.5
	-75. TR 23.2* BHP	136.0 228.7	132.0 255.7	127.3 283.4	122.1 312.1	116.6 356.6	110.8 419.4	104.7 520.9
	-70. TR 21.9* BHP	163.0 234.7	158.6 264.6	153.7 294.6	148.2 324.6	142.3 365.9	136.1 419.0	129.6 494.6
	-65. TR 20.4* BHP	194.0 237.6	189.3 274.0	184.0 306.3	178.1 338.3	171.8 378.7	165.1 427.2	158.1 490.2
	-60. TR 18.6* BHP	229.6 238.9	224.3 280.2	218.6 317.5	212.4 351.9	205.5 393.4	198.3 440.2	190.8 496.8
	-55. TR 16.6* BHP	270.1 238.2	264.3 281.9	258.1 327.4	251.4 366.3	243.9 408.2	236.1 455.7	228.0 509.6
	-50. TR 14.3* BHP	315.9 238.6	309.6 283.2	302.9 332.0	295.6 378.4	287.3 423.0	279.0 472.1	270.1 525.8
	-45. TR 11.7* BHP	367.1 244.6	360.8 282.1	353.5 333.2	345.6 387.9	336.5 437.2	327.2 487.4	317.8 543.6
	-40. TR 8.7* BHP	425.9 242.0	418.4 285.0	410.3 333.5	401.9 390.7	391.8 449.8	381.4 502.6	371.2 560.2
	-35. TR 5.4* BHP	492.2 221.9	482.6 289.8	474.2 333.5	464.7 391.6	453.9 456.2	442.7 518.2	430.5 575.0
	-30. TR 1.6* BHP	566.5 178.9	555.5 280.1	545.5 339.4	535.1 391.9	523.3 458.3	510.7 527.9	498.0 593.3
	-25. TR 1.3 BHP	649.2 107.1	636.9 251.0	625.0 340.0	613.8 394.5	600.3 459.0	586.8 533.0	572.6 606.2
	-20. TR 3.6 BHP		727.3 198.0	713.9 321.7	701.2 400.1	686.4 458.0	671.1 535.2	655.6 614.7
	-15. TR 6.2 BHP		827.6 116.2	812.5 282.9	798.1 394.2	781.8 459.0	764.7 534.1	747.6 618.5
	-10. TR 9.0 BHP			921.5 219.4	905.2 366.8	886.9 464.6	868.6 530.5	849.0 620.2
	-5. TR 12.2 BHP			1041.5 126.6	1023.3 317.4	1003.4 456.7	982.7 532.9	961.7 615.4
0. TR 15.7 BHP				1153.1 242.6	1131.8 428.3	1107.8 536.6	1085.6 611.0	

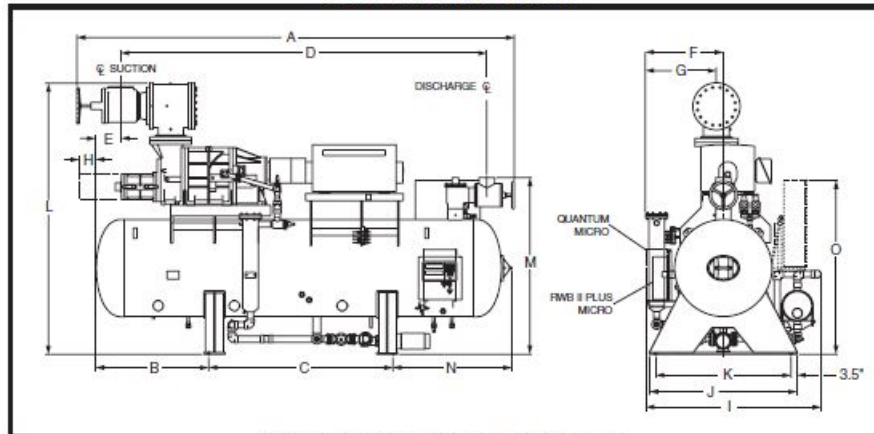
NOTE: Capacities Based on Liquid at Intermediate Temperature and no Suction Superheat.

BOOSTER - CAPACITY and BRAKE HORSEPOWER RATING @ 3550 RPM 60 Hz

RWB-II 676

R-22		SATURATED INTERMEDIATE TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG						
		-20.0 10.1	-10.0 16.5	0.0 24.0	10.0 32.8	20.0 43.0	30.0 54.9	40.0 68.5
SATURATED SUCTION TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG (° in Hg)	-80. TR 20.2* BHP	165.2 306.1	161.0 335.7	156.0 363.7	151.5 393.0	145.1 427.1	138.5 465.2	131.7 509.1
	-75. TR 18.5* BHP	193.9 316.0	189.1 347.8	183.8 379.3	178.2 409.7	171.0 444.2	163.5 481.0	155.9 521.5
	-70. TR 16.6* BHP	226.7 324.7	220.7 358.5	215.3 394.2	208.8 427.3	200.3 462.7	191.8 499.6	183.2 539.0
	-65. TR 14.4* BHP	263.9 332.1	256.7 368.0	250.1 406.0	243.7 445.2	233.5 481.9	223.8 520.2	214.1 559.8
	-60. TR 12.0* BHP	305.7 335.1	297.7 377.1	289.6 417.3	282.3 459.4	271.5 501.1	259.9 541.3	248.9 582.4
	-55. TR 9.2* BHP	353.2 333.6	343.8 382.4	334.2 427.4	325.3 472.0	314.1 518.7	301.0 561.9	287.9 605.9
	-50. TR 6.2* BHP	406.4 336.4	395.3 381.6	384.7 435.3	373.5 482.6	361.5 533.5	347.2 582.0	332.1 628.2
	-45. TR 2.7* BHP	465.8 329.7	453.2 380.4	441.1 437.7	428.4 492.5	414.9 546.8	399.3 600.0	381.8 650.1
	-40. TR 0.5 BHP	531.8 308.8	517.6 382.0	503.6 433.9	489.9 498.0	474.4 557.2	457.8 616.0	438.3 671.4
	-35. TR 2.6 BHP	604.9 270.7	588.8 373.2	573.3 432.9	557.7 496.5	540.9 564.2	522.8 628.6	501.8 690.7
	-30. TR 4.9 BHP	685.5 209.3	667.7 350.0	650.0 431.9	632.4 490.7	614.6 565.6	594.6 636.9	573.0 706.7
	-25. TR 7.4 BHP	774.2 121.9	754.5 305.6	734.6 422.0	715.4 490.1	695.5 560.0	674.2 640.4	650.8 717.5
	-20. TR 10.1 BHP		849.8 236.1	827.8 394.7	805.8 488.4	784.7 555.4	761.1 637.1	736.1 722.4
	-15. TR 13.2 BHP		954.2 137.5	929.8 343.8	905.2 476.1	882.3 552.6	856.7 629.5	830.0 721.9
	-10. TR 16.5 BHP			1041.4 265.2	1014.2 443.6	988.9 549.2	962.3 623.3	932.1 715.3
	-5. TR 20.1 BHP			1163.1 154.2	1133.1 385.3	1105.5 535.4	1075.9 620.6	1044.9 708.8
	0. TR 24.0 BHP				1262.6 296.4	1232.5 499.6	1200.7 616.7	1166.8 698.9

NOTE: Capacities Based on Liquid at Intermediate Temperature and no Suction Superheat.

HORIZONTAL SEPARATOR MODEL

Figure 12. Horizontal Separator Model Dimensions

MODEL NO.	APPROXIMATE DIMENSIONS INCHES/MILLIMETERS														
	A	B	C	D (4)	E (5)	F (4)	G (4)	H (3)	I (4)	J (4)	K	L (5)	M	N (2)	O (6)
496	225/5715	51/1295	93/2362	182/4623	16/406	31/787	36/914	11/279	88/2235	68/1727	62/1575	136/3454	87/2210	66/1676	97/2464
676	234/5944	53/1346	96/2438	192/4877	16/406	34/864	39/991	17/432	94/2388	77/1956	70/1778	144/3658	94/2388	71/1803	98/2489
856	245/6223	63/1600	103/2616	204/5182	14/356	43/1092	40/1016	28/711	99/2515	83/2108	75/1905	151/3835	96/2489	66/1676	97/2464

1. Horizontal design for Booster and High Stage applications with a maximum 1000 hp ODP motor.
2. Allow additional 36 in./915 mm for removal of coalescer element.
3. Required clearance for removal of movable slide valve/slide stop assembly.
4. Maximum dimension.
5. Ammonia units only. For Halocarbon units, consult FRICK.
6. Optional package-mounted, solid-state starter package.

NOTE: Drawing for reference only! Use certified drawing for erection.

STANDARD CONNECTIONS in./mm		
MODEL NO.	R-717 or R-22	
	SUCTION	DISCHARGE
496	12/304.8	8/203.2
676	12/304.8	8/203.2
856	14/355.6	8/203.2