

Frick Rotary Screw Ammonia Compressor Unit

Mfg: Frick / Johnson Controls

Model: RWB-II-177

Stock No.: SDFP144.100

Serial No.: S01S3GFMP LHAA3

Frick Rotary Screw Ammonia Compressor Unit. Model: RWB-II-177. S/N: S01S3GFMP LHAA3. Refrigerant: R-717, ammonia. Quantum Microprocessor Controller. Hours: n/a. Model nomenclature: RWB-unit type, mark II-TDSH compressor, 177-displacement. Displacement: 1042 CFM (1770 m³/hr). Volumizer variable-Vi hydraulic capacity control (10-100%). 350 PSIG test pressure. Capacity: 384.1 TR / 410.5 BHP at +20F suction and 95F condensing. Capacity at -40F suction: 79 TR / 266.9 BHP. Standard connections: in. suction / discharge. Overall dimensions: 175 in. L x 62 in. W x 105 in. H.





RWB II PLUS ROTARY SCREW COMPRESSOR UNITS
ENGINEERING DATA

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

RWB-II 177

SATURATED SUCTION TEMPERATURE, °F / CORRESPONDING PRESSURE, PSIG (* in Hg)		SATURATED CONDENSING 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
-40. 8.7*	TR BHP	86.2 212.4	82.6 238.2	79.0 266.9	75.2 300.2	71.4 340.5
-35. 5.4*	TR BHP	100.5 222.8	96.7 249.4	92.7 278.5	88.5 310.8	84.3 348.1
-30. 1.6*	TR BHP	116.6 233.4	112.4 261.2	108.0 291.1	103.5 323.7	98.8 359.9
-25. 1.3	TR BHP	134.5 244.3	129.9 273.4	125.1 304.5	120.2 337.9	115.2 374.4
-20. 3.6	TR BHP	154.3 254.9	149.4 285.8	144.2 318.3	138.8 353.0	133.3 390.2
-15. 6.2	TR BHP	176.3 265.0	170.9 298.0	165.2 332.4	159.4 368.6	153.3 407.2
-10. 9.0	TR BHP	200.6 274.2	194.6 309.8	188.5 346.4	182.1 384.5	175.5 424.7
-5. 12.2	TR BHP	227.3 282.4	220.8 320.6	214.1 360.0	207.1 400.5	200.0 442.6
0. 15.7	TR BHP	256.8 289.5	249.5 330.5	242.2 372.7	234.6 416.0	226.8 460.6
5. 19.6	TR BHP	289.3 295.0	281.1 339.1	273.0 384.3	264.8 430.7	256.3 478.2
10. 23.8	TR BHP	324.6 298.3	315.8 346.3	306.6 394.6	297.7 444.2	288.5 495.1
15. 28.4	TR BHP	363.0 299.3	353.7 351.3	343.7 403.5	333.6 456.4	323.5 510.7
20. 33.5	TR BHP	405.1 298.1	394.7 353.8	384.1 410.5	372.9 467.1	361.7 525.1
25. 39.0	TR BHP	451.5 295.9	439.2 353.7	427.7 414.7	415.8 476.1	403.3 537.7
30. 45.0	TR BHP	501.9 292.6	488.2 351.5	475.0 416.1	462.2 482.3	448.8 548.7
35. 51.6	TR BHP	556.8 288.0	541.5 348.9	526.4 414.6	512.3 485.4	498.0 557.2
40. 58.6	TR BHP	615.8 281.7	599.5 344.4	582.7 412.1	566.4 485.4	550.9 562.2

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