

# RXB-24

## HIGH STAGE - CAPACITY and BRAKE HORSEPOWER RATING (1750 RPM MOTOR)

<b>R-717</b>		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	
SATURATED SUCTION TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG (* in Hg)	-40. 8.7*	TR BHP	11.9 32.3	11.5 36.2	11.2 40.5	10.8 45.4	10.5 51.3
	-35. 5.4*	TR BHP	13.7 33.8	13.3 37.9	12.9 42.3	12.5 47.1	12.1 52.7
	-30. 1.6*	TR BHP	15.8 35.4	15.3 39.7	14.9 44.3	14.5 49.1	14.0 54.6
	-25. 1.3	TR BHP	18.1 37.0	17.6 41.5	17.1 46.3	16.6 51.4	16.1 56.8
	-20. 3.6	TR BHP	20.6 38.5	20.1 43.3	19.5 48.3	19.0 53.7	18.4 59.3
	-15. 6.2	TR BHP	23.5 40.0	22.9 45.1	22.2 50.4	21.6 56.0	21.0 61.9
	-10. 9.0	TR BHP	26.7 41.4	26.0 46.8	25.3 52.4	24.5 58.3	23.9 64.5
	-5. 12.2	TR BHP	30.2 42.6	29.4 48.4	28.6 54.4	27.8 60.6	27.0 67.1
	0. 15.7	TR BHP	34.1 43.4	33.2 49.9	32.2 56.3	31.4 62.9	30.5 69.8
	5. 19.6	TR BHP	38.4 44.0	37.3 51.0	36.3 58.0	35.3 65.0	34.3 72.3
	10. 23.8	TR BHP	43.3 44.4	42.0 51.8	40.7 59.5	39.6 67.0	38.5 74.8
	15. 28.4	TR BHP	48.5 44.7	47.1 52.3	45.7 60.5	44.3 68.8	43.0 77.1
	20. 33.5	TR BHP	54.2 45.1	52.7 52.6	51.0 61.1	49.5 70.2	48.1 79.2
	25. 39.0	TR BHP	60.5 45.7	58.7 53.1	57.0 61.7	55.3 71.1	53.6 81.0
	30. 45.0	TR BHP	67.2 46.2	65.4 53.7	63.5 62.1	61.5 71.8	59.6 82.1
	35. 51.6	TR BHP	74.6 46.2	72.5 54.3	70.5 62.6	68.4 72.2	66.2 83.0
40. 58.6	TR BHP	82.8 45.6	80.3 54.8	78.1 63.4	75.7 72.8	73.4 83.6	

**NOTE:** Capacities based on 10°F liquid subcooling, 10°F suction superheat, with superheat enthalpy not contributing to the refrigeration effect.

**HIGH STAGE - CAPACITY and BRAKE HORSEPOWER RATING (1750 RPM MOTOR)  
WITH FLASH TYPE ECONOMIZER (SEE PAGE 65 FOR SELECTIONS  
BASED ON DIRECT EXPANSION OR SHELL AND COIL ECONOMIZERS).**

# RXB-24E

<b>R-717</b>		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	
SATURATED SUCTION TEMPERATURE, °F/CORRESPONDING PRESSURE, PSIG (* in Hg)	-40. 8.7*	TR BHP	13.9 34.2	13.8 38.6	13.7 43.3	13.6 48.9	13.5 55.5
	-35. 5.4*	TR BHP	15.9 35.9	15.8 40.4	15.7 45.3	15.6 50.7	15.4 57.0
	-30. 1.6*	TR BHP	18.1 37.5	18.0 42.3	17.9 47.4	17.8 52.9	17.6 59.1
	-25. 1.3	TR BHP	20.6 39.1	20.4 44.1	20.4 49.5	20.2 55.3	20.1 61.5
	-20. 3.6	TR BHP	23.3 40.7	23.1 46.0	23.0 51.7	22.9 57.7	22.8 64.2
	-15. 6.2	TR BHP	26.2 42.2	26.1 47.8	26.0 53.8	25.8 60.1	25.7 66.9
	-10. 9.0	TR BHP	29.4 43.5	29.3 49.5	29.2 55.8	29.0 62.5	28.9 69.6
	-5. 12.2	TR BHP	33.0 44.6	32.8 51.0	32.7 57.8	32.5 64.9	32.3 72.3
	0. 15.7	TR BHP	36.9 45.3	36.6 52.4	36.4 59.6	36.2 67.1	36.1 75.0
	5. 19.6	TR BHP	41.0 45.6	40.8 53.4	40.5 61.2	40.3 69.2	40.1 77.6
	10. 23.8	TR BHP	45.6 45.8	45.3 53.9	45.0 62.6	44.7 71.1	44.5 80.0
	15. 28.4	TR BHP	50.6 45.9	50.2 54.2	49.8 63.3	49.5 72.7	49.2 82.2
	20. 33.5	TR BHP	55.9 46.0	55.5 54.2	55.0 63.8	54.7 73.9	54.3 84.1
	25. 39.0	TR BHP	61.6 46.2	61.1 54.4	60.7 64.0	60.2 74.5	59.8 85.7
	30. 45.0	TR BHP	67.6 46.3	67.2 54.6	66.8 64.1	66.2 74.8	65.8 86.5
	35. 51.6	TR BHP	74.1 45.9	73.6 54.8	73.2 64.2	72.7 74.8	72.1 87.0
	40. 58.6	TR BHP	81.1 44.7	80.5 54.8	80.1 64.6	79.5 75.1	78.9 87.2

**NOTE: Ratings based on liquid subcooling to saturation temperature at flash economizer pressure, 10°F suction superheat with the superheat enthalpy not contributing to the refrigeration effect, no liquid cooling from condenser or external source. No allowance for vapor line pressure drop or economizing vessel temperature split is included in the ratings above.**

# RXB-24

## HIGH STAGE - CAPACITY and BRAKE HORSEPOWER RATING (1750 RPM MOTOR)

R-22		SATURATED CONDENSING 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)	-40.5	TR BHP	13.2 34.7	12.3 38.1	11.5 41.8	10.6 45.9	9.8 50.3	8.9 55.6
	-35.2	TR BHP	15.1 36.3	14.2 39.9	13.2 43.8	12.3 48.0	11.3 52.4	10.3 57.4
	-30.4	TR BHP	17.2 37.9	16.2 41.7	15.2 45.8	14.1 50.1	13.1 54.6	12.0 59.7
	-25.7	TR BHP	19.5 39.3	18.4 43.5	17.3 47.8	16.1 52.3	15.0 57.2	13.8 62.1
	-20.1	TR BHP	22.1 40.6	20.8 45.2	19.6 49.8	18.3 54.5	17.1 59.6	15.8 64.7
	-15.1	TR BHP	24.9 41.7	23.5 46.7	22.1 51.7	20.8 56.7	19.4 62.0	17.9 67.3
	-10.1	TR BHP	27.9 42.5	26.5 48.0	24.9 53.4	23.4 58.9	21.9 64.4	20.3 70.2
	-5.1	TR BHP	31.3 43.2	29.6 49.0	28.0 54.9	26.3 60.8	24.6 66.7	22.9 72.8
	0.1	TR BHP	34.9 43.7	33.2 49.8	31.3 56.2	29.5 62.5	27.6 68.9	25.8 75.4
	5.1	TR BHP	38.9 44.1	37.0 50.5	34.9 57.1	32.9 64.0	30.9 70.8	28.8 77.8
	10.1	TR BHP	43.2 44.3	41.1 51.0	38.9 57.8	36.7 65.1	34.4 72.5	32.2 79.9
	15.1	TR BHP	47.8 44.3	45.5 51.3	43.2 58.5	40.7 66.0	38.3 74.0	35.8 81.9
	20.1	TR BHP	52.9 44.3	50.4 51.4	47.8 58.9	45.1 66.7	42.5 75.0	39.8 83.7
	25.1	TR BHP	58.3 44.0	55.6 51.5	52.7 59.1	49.9 67.3	47.0 75.8	44.1 84.8
	30.1	TR BHP	64.1 43.3	61.2 51.5	58.1 59.4	55.0 67.7	51.8 76.4	48.7 85.7
	35.1	TR BHP	70.5 42.2	67.3 51.1	63.9 59.6	60.5 67.9	57.1 77.0	53.6 86.4
40.1	TR BHP	77.3 40.7	73.8 50.3	70.1 59.6	66.4 68.4	62.7 77.4	58.9 86.9	

**NOTE: Capacities based on 10°F liquid subcooling, 10°F suction superheat, with superheat enthalpy not contributing to the refrigeration effect.**

**HIGH STAGE - CAPACITY and BRAKE HORSEPOWER RATING (1750 RPM MOTOR)  
WITH FLASH TYPE ECONOMIZER (SEE PAGE 65 FOR SELECTIONS  
BASED ON DIRECT EXPANSION OR SHELL AND COIL ECONOMIZERS).**

# RXB-24E

<b>R-22</b>		SATURATED CONDENSING 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 0.5 BHP	16.6 38.7	16.1 42.7	15.6 47.1	15.1 51.9	14.4 57.1	13.8 63.4
	-35. TR 2.6 BHP	18.7 40.4	18.2 44.6	17.7 49.3	17.1 54.2	16.5 59.5	15.8 65.7
	-30. TR 4.9 BHP	21.0 42.0	20.5 46.5	19.9 51.5	19.3 56.6	18.6 62.0	17.9 68.2
	-25. TR 7.4 BHP	23.4 43.3	22.9 48.3	22.3 53.6	21.7 59.0	21.0 64.9	20.2 71.0
	-20. TR 10.1 BHP	26.1 44.5	25.5 50.0	24.9 55.6	24.2 61.4	23.5 67.5	22.7 73.9
	-15. TR 13.2 BHP	29.0 45.4	28.3 51.4	27.7 57.6	26.9 63.6	26.2 70.1	25.3 76.8
	-10. TR 16.5 BHP	32.0 46.0	31.3 52.5	30.6 59.1	29.8 65.7	29.0 72.5	28.1 79.9
	-5. TR 20.1 BHP	35.2 46.3	34.5 53.3	33.7 60.4	32.9 67.5	32.1 74.9	31.1 82.6
	0. TR 24.0 BHP	38.6 46.5	37.9 53.8	37.1 61.4	36.2 69.0	35.3 77.0	34.3 85.3
	5. TR 28.2 BHP	42.3 46.5	41.6 54.0	40.7 62.0	39.7 70.2	38.7 78.7	37.7 87.7
	10. TR 32.8 BHP	46.2 46.3	45.4 54.2	44.4 62.3	43.4 71.0	42.4 80.1	41.2 89.6
	15. TR 37.7 BHP	50.3 45.9	49.4 54.0	48.4 62.5	47.4 71.4	46.2 81.2	45.0 91.3
	20. TR 43.0 BHP	54.6 45.4	53.7 53.6	52.6 62.4	51.5 71.6	50.3 81.7	49.0 92.7
	25. TR 48.8 BHP	59.1 44.7	58.2 53.2	57.1 62.1	55.9 71.7	54.6 82.0	53.3 93.3
	30. TR 54.9 BHP	63.9 43.7	63.0 52.7	61.7 61.8	60.5 71.5	59.1 82.1	57.7 93.6
	35. TR 61.5 BHP	69.0 42.2	67.9 51.8	66.7 61.5	65.3 71.2	63.8 82.0	62.3 93.6
	40. TR 68.5 BHP		73.1 50.5	71.8 60.9	70.4 71.1	68.8 81.7	67.2 93.3

**NOTE: Ratings based on liquid subcooling to saturation temperature at flash economizer pressure, 10°F suction superheat with the superheat enthalpy not contributing to the refrigeration effect, no liquid cooling from condenser or external source. No allowance for vapor line pressure drop or economizing vessel temperature split is included in the ratings above.**