



## 920 and 920R Series: Natural Refrigerants, Tons and kW

	Model	922 922R	923 923R	924 924R	925 925R	926 926R	927 927R	928 928R	930 930R
Connection Size		5/8"	7/8"	1-1/8"	1-3/8"	1-5/8"	2-1/8"	2-5/8"	3-1/8"
Refrigerant	Temp °F	Tons @ 100°F Condensing 10°F Superheat 0°F Subcooling							
R-290 Propane C <sub>3</sub> H <sub>8</sub>	40	7.5	10.5	18.8	28.6	49.0	66.7	133.7	111.5
	30	6.3	8.7	15.7	23.8	40.7	55.5	111.3	92.8
	20	5.2	7.2	12.9	19.7	33.7	45.9	89.0	76.7
	10	4.3	5.9	10.7	16.3	27.8	37.9	71.7	63.4
	0	3.5	4.8	8.6	13.1	22.5	30.7	57.3	51.2
	-10	2.8	3.9	7.0	10.6	18.1	24.7	45.3	41.3
	-20	2.2	3.1	5.6	8.5	14.5	19.8	35.5	33.0
	-30	1.8	2.4	4.4	6.7	11.5	15.6	27.4	26.1
	-40	1.4	1.9	3.4	5.2	9.0	12.2	21.0	20.4
R-600a Butane C <sub>4</sub> H <sub>10</sub>	+20	2.0	2.8	5.0	7.6	12.9	17.6	29.4	50.0
	+10	1.6	2.2	4.0	6.0	10.3	14.0	23.4	39.8
	0	1.2	1.7	3.1	4.7	8.1	11.0	18.4	31.4
	-10	1.0	1.3	2.4	3.7	6.3	8.6	14.4	24.4
	-20	0.7	1.0	1.9	2.8	4.9	6.6	11.1	18.8
	-30	0.6	0.8	1.4	2.2	3.7	5.0	8.4	14.3
	-40	0.4	0.6	1.1	1.6	2.8	3.8	6.3	10.7
R-717 NH <sub>3</sub>	+40	9.9	13.7	24.7	37.5	64.2	87.5	146.2	248.5
	+30	8.1	11.2	20.2	30.7	52.5	71.6	119.7	203.4
	+20	6.5	9.1	16.4	24.9	42.6	58.1	97.1	165.1
	+10	5.3	7.3	13.2	20.0	34.3	46.7	78.1	132.7
	0	4.2	5.8	10.5	15.9	27.3	37.2	62.1	105.6
	-10	3.3	4.6	8.2	12.5	21.4	29.2	48.9	83.0
	-20	2.6	3.6	6.4	9.7	16.7	22.7	38.0	64.6
	-30	2.1	2.9	5.3	8.0	13.7	18.7	31.2	53.1
	-40	1.5	2.1	3.7	5.7	9.7	13.2	22.0	37.5
	Model	922 922R	923 923R	924 924R	925 925R	926 926R	927 927R	928 928R	930 930R
Connection Size		5/8"	7/8"	1-1/8"	1-3/8"	1-5/8"	2-1/8"	2-5/8"	3-1/8"
Refrigerant	Temp °F	Tons @ 25°F Condensing 10°F Superheat, 0°F Subcooling							
R-744 CO <sub>2</sub> Subcritical (650 PSI max)	+40	29.48	41.00	73.78	112.19	192.03	261.76	437.36	743.51
	+30	25.17	35.01	63.01	95.81	163.99	223.54	373.49	634.94
	+20	21.42	29.79	53.61	81.52	139.53	190.20	317.79	540.24
	+10	18.11	25.19	45.34	68.93	117.99	160.84	268.74	456.85
	0	15.27	21.24	38.23	58.13	99.49	135.62	226.59	385.21
	-10	12.79	17.78	32.00	48.66	83.29	113.53	189.69	322.48
	-20	10.63	14.78	26.61	40.46	69.25	94.39	157.71	268.11
	-30	8.77	12.20	21.95	33.38	57.13	77.87	130.11	221.19
	-40	7.17	9.97	17.95	27.30	46.72	63.68	106.41	180.89

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Refrigerant	Temp °C	<b>kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling</b>							
R-290 Propane C <sub>3</sub> H <sub>8</sub>	4.4	26.4	36.8	66.2	100.6	172.2	234.7	470.3	392.2
	-1.1	22.0	30.6	55.1	83.7	143.3	195.3	391.6	326.4
	-6.7	18.2	25.3	45.5	69.2	118.4	161.4	312.9	269.7
	-12.2	15.0	20.9	37.6	57.2	97.9	133.4	252.2	222.9
	-17.8	12.1	16.9	30.4	46.2	79.1	107.8	201.5	180.1
	-23.3	9.8	13.6	24.5	37.3	63.8	87.0	159.4	145.3
	-28.9	7.8	10.9	19.6	29.8	51.0	69.5	124.8	116.1
	-34.4	6.2	8.6	15.5	23.6	40.3	55.0	96.5	91.8
-40	4.8	6.7	12.1	18.4	31.5	42.9	73.7	71.7	
R-600a Butane C <sub>4</sub> H <sub>10</sub>	4.4	10.7	14.9	26.8	40.8	69.8	95.2	159.1	270.4
	-1.1	8.7	12.1	21.7	33.1	56.6	77.2	128.9	219.2
	-6.7	7.0	9.7	17.5	26.6	45.5	62.0	103.5	176.0
	-12.2	5.6	7.7	13.9	21.1	36.2	49.3	82.4	140.1
	-17.8	4.4	6.1	10.9	16.6	28.5	38.8	64.9	110.3
	-23.3	3.4	4.7	8.5	13.0	22.2	30.3	50.6	85.9
	-28.9	2.6	3.6	6.6	10.0	17.1	23.3	38.9	66.1
	-34.4	2.0	2.8	5.0	7.6	13.0	17.7	29.5	50.2
-40	1.5	2.1	3.7	5.7	9.7	13.3	22.1	37.6	
R-717 NH <sub>3</sub>	4.4	34.6	48.2	86.7	131.9	225.7	307.7	514.1	873.9
	-1.1	28.4	39.5	71.0	108.0	184.8	251.9	420.9	715.5
	-6.7	23.0	32.0	57.6	87.6	150.0	204.4	341.5	580.6
	-12.2	18.5	25.7	46.3	70.4	120.5	164.3	274.5	466.7
	-17.8	14.7	20.5	36.8	56.0	95.9	130.7	218.4	371.3
	-23.3	11.6	16.1	29.0	44.1	75.4	102.8	171.8	292.1
	-28.9	9.0	12.5	22.5	34.3	58.6	79.9	133.5	227.0
	-34.4	7.4	10.3	18.5	28.2	48.2	65.7	109.8	186.6
-40	5.2	7.3	13.1	19.9	34.0	46.4	77.5	131.7	
	Model	922 922R	923 923R	924 924R	925 925R	926 926R	927 927R	928 928R	930 930R
Connection Size		5/8"	7/8"	1-1/8"	1-3/8"	1-5/8"	2-1/8"	2-5/8"	3-1/8"
Refrigerant	Temp °C	<b>kW @ -3.88°C Condensing 5.6°C Superheat 0°C Subcooling</b>							
R-744 CO <sub>2</sub> Subcritical (650 PSI max)	4.4	103.7	144.2	259.5	394.6	675.4	920.6	1538.2	2614.9
	-1.1	88.5	123.1	221.6	337.0	576.7	786.2	1313.6	2233.1
	-6.7	75.3	104.8	188.6	286.7	490.7	668.9	1117.7	1900.0
	-12.2	63.7	88.6	159.4	242.4	415.0	565.7	945.1	1606.7
	-17.8	53.7	74.7	134.4	204.4	349.9	477.0	796.9	1354.8
	-23.3	45.0	62.5	112.6	171.1	292.9	399.3	667.2	1134.2
	-28.9	37.4	52.0	93.6	142.3	243.5	332.0	554.7	943.0
	-34.4	30.8	42.9	77.2	117.4	200.9	273.9	457.6	777.9
-40	25.2	35.1	63.1	96.0	164.3	224.0	374.2	636.2	

SELECT OIL SEPARATOR WITH CONNECTION SIZE NO LESS THAN DISCHARGE LINE SIZE.

**920 and 920R Series for Natural Refrigerants, Tons and kW Notes:**

1. Tons = Capacity in evaporator (12,000 BTUH/Hr/Ton), based on Condensing Temperature stated in the chart, 10°F Superheat, 0°F Subcooling.
2. kW = Capacity based on Condensing Temperature stated in the chart, 5.6°C Superheat, 0°C Subcooling.
3. For applications other than reciprocating compressors, (scroll, screw type, 2-stage) please contact Temprite engineering at [temprite@temprite.com](mailto:temprite@temprite.com).