130 Series for Natural Refrigerants: Transcritical and Subcritical CO_2 (kW)

	Model	131	133A	135A	137A	138A	139A
	Connection Size	1/4" NPT	1/2" NPT	3/4" NPT	1 -1/4" NPT	1-1/2" NPT*	1-1/2-2 NPT**
	Temp.°C	**kW @ 29.44°C Condensing 5.6°C Superheat 0°C Subcooling**					
R-744 CO_2 Transcritical	+14.7	24.03	42.56	159.58	464.56	676.45	846.52
	+9.7	21.50	38.08	142.82	415.76	605.39	758.35
	+4.4	18.61	32.96	123.62	359.86	524.00	656.99
	-1.1	16.01	28.36	106.35	309.61	450.83	565.61
	-5	14.36	25.43	95.35	277.57	404.17	507.23
	-6.7	13.68	24.24	90.88	264.57	385.24	483.52
	-12.2	11.62	20.58	77.19	224.70	327.19	410.77
	-17.8	9.80	17.36	65.10	189.51	275.94	346.46
	-23.3	8.20	14.53	54.48	158.58	230.92	289.92
	-28.9	6.81	12.06	45.21	131.61	191.64	240.57
	-34.4	5.60	9.93	37.22	108.36	157.78	198.02
	-40	4.56	8.08	30.31	88.23	128.48	161.19
	Model	**131**	**133A**	**135A**	**137A**	**138A**	**139A**
	Connection Size	1/4" NPT	1/2" NPT	3/4" NPT	1 -1/4" NPT	1-1/2" NPT*	1-1/2-2 NPT**
	Temp.°C	**kW @ -3.889°C Condensing 5.56°C Superheat 0°C Subcooling**					
R-744 CO_2 Subcritical	+14.7	43.76	77.52	290.69	846.23	1232.20	1603.64
	+9.7	38.73	68.59	257.22	748.80	1090.33	1419.00
	+4.4	33.17	58.75	220.32	641.38	933.92	1215.44
	-1.1	28.33	50.18	188.16	547.76	797.60	1038.02
	-5	25.31	44.82	168.08	489.29	712.46	927.23
	-6.7	24.09	42.67	160.02	465.82	678.29	882.75
	-12.2	20.40	36.14	135.52	394.50	574.44	747.60
	-17.8	17.19	30.44	114.16	332.32	483.89	629.76
	-23.3	14.39	25.48	95.56	278.19	405.07	527.17
	-28.9	11.96	21.18	79.43	231.24	336.70	438.20
	-34.4	9.87	17.49	65.58	190.91	277.99	361.79
	-40	8.07	14.30	53.61	156.06	227.23	295.73

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

*Customer specified: Butt Weld or Male Pipe Thread

**Butt Weld only

130 Series Notes:

1. kW = Capacity based on Condensing Temperature stated in chart, 5.6°C Superheat, 0°C Subcooling.
2. For applications other than reciprocating compressors (scroll, screw type, 2-stage), please contact Temprite engineering at temprite@temprite.com.

The 920 and 920R Series of components are suitable for subcritical applications up to 44.8 bar (650 PSI), and are ammonia compatible.