



130 Series for Natural Refrigerants: Transcritical and Subcritical CO₂ (Tons)

	Model	131	133A	135A	137A	138A	139A
	Connection Size	1/4" *	1/2" *	3/4" *	1" or 1-1/4" *	1-1/2" *	1-1/2" or 2" BW**
	Temp. °F	Tons @ 100°F Gas Cooler Outlet 10°F Superheat 0°F Subcooling					
R-744 CO ₂ Transcritical	60	6.29	11.19	41.84	121.76	177.05	230.47
	55	5.93	10.54	39.41	114.67	166.74	217.06
	50	5.56	9.89	36.97	107.60	156.45	203.66
	45	5.21	9.26	34.63	100.77	146.52	190.74
	40	4.87s	8.66	32.38	94.24	137.03	178.38
	35	4.54	8.08	30.21	87.91	127.82	166.40
	30	4.23	7.52	28.12	81.82	118.97	154.87
	25	3.94	7.01	26.19	76.21	110.82	144.26
	20	3.65	6.48	24.24	70.55	102.58	133.54
	15	3.37	6.00	22.44	65.30	94.95	123.60
	10	3.12	5.54	20.73	60.32	87.71	114.17
	5	2.88	5.12	19.13	55.66	80.93	105.36
0	2.65	4.71	17.60	51.22	74.48	96.95	

130 Series for Natural Refrigerants: Subcritical CO₂ (Tons)

	Model	131	133A	135A	137A	138A	139A
	Connection Size	1/4" *	1/2" *	3/4" *	1" or 1-1/4" *	1-1/2" **	1-1/2" or 2" BW**
	Temp. °F	Tons @ 20°F Condensing 10°F Superheat 0°F Subcooling					
R-744 CO ₂ Subcritical	+20	7.03	12.45	46.67	135.87	197.84	257.48
	+10	5.95	10.54	39.52	115.06	167.53	218.03
	0	5.01	8.88	33.29	96.92	141.12	183.66
	-10	4.20	7.43	27.87	81.13	118.13	153.74
	-20	3.49	6.18	23.17	67.44	98.20	127.80
	-30	2.88	5.10	19.13	55.69	81.08	105.53
	-40	2.35	4.17	15.64	45.52	66.29	86.27

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

*Customer specified: Butt Weld, Male Pipe Thread or ODS Fittings

**Butt Weld only

130 Series Notes:

1. Tons = Capacity in evaporator (12,000 BTUH/Hr/Ton), based on Condensing Temperature stated in chart, 10°F Superheat, 0°F Subcooling
2. For applications other than reciprocating compressors, (scroll, screw type, 2-stage) please contact Temprite engineering at temprite@temprite.com.
3. When ambient temperatures are above 100F, the compressor's oil circulation rate (OCR) may increase. This will reduce oil separation efficiency.

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