



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

	Model	131	133A	135A	137A	138A	139A
	Connection Size	1/4" *	1/2" *	3/4" *	1-1/4" *	1-1/2" *	1-1/2" or 2" BW**
	Temp. °C	kW @ 37.78°C Gas Cooler Outlet 5.6°C Superheat 0°C Subcooling					
R-744 CO ₂ Transcritical	15.56	22.13	39.36	147.15	428.23	622.67	810.58
	12.78	20.84	37.07	138.59	403.30	586.42	763.38
	10	19.56	34.78	130.04	378.42	550.24	716.28
	7.222	18.31	32.57	121.78	354.40	515.31	670.82
	4.444	17.13	30.46	113.89	331.44	481.93	627.36
	1.667	15.98	28.42	106.24	309.18	449.55	585.22
	-1.111	14.87	26.45	98.89	287.77	418.43	544.69
	-3.889	13.85	24.64	92.11	268.04	389.74	507.36
	-6.667	12.82	22.81	85.26	248.12	360.78	469.65
	-9.444	11.87	21.11	78.92	229.66	333.93	434.71
	-12.22	10.96	19.50	72.90	212.14	308.46	401.55
	-15	10.12	17.99	67.27	195.76	284.64	370.53
-17.78	9.31	16.56	61.90	180.14	261.93	340.97	
	Model	131	133A	135A	137A	138A	139A
	Connection Size	1/4" *	1/2" *	3/4" *	1-1/4" *	1-1/2" *	1-1/2" or 2" BW**
	Temp. °C	kW @ -6.667°C Condensing 5.56°C Superheat 0°C Subcooling					
R-744 CO ₂ Subcritical	-6.7	24.71	43.77	164.15	477.85	695.80	905.54
	-12.2	20.93	37.07	139.00	404.65	589.21	766.83
	-17.8	17.63	31.22	117.09	340.85	496.32	645.93
	-23.3	14.76	26.14	98.02	285.33	415.48	540.72
	-28.9	12.27	21.73	81.48	237.19	345.37	449.48
	-34.4	10.13	17.94	67.28	195.85	285.18	371.14
	-40	8.28	14.67	55.00	160.11	233.14	303.41

THE CONNECTIONS ON THE OIL SEPARATOR MUST BE THE SAME SIZE AS (OR LARGER THAN) THE DISCHARGE LINE SIZE.

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

**Butt Weld only

130 Series Notes:

1. kW = Capacity based on Condensing Temperature stated in chart, 5.56°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.