



130 Series for Natural Refrigerants: Transcritical CO₂ Gas Cooler Outlet (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: Transcritical CO₂ Gas Cooler Outlet (kW)

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. °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	

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. kW = Capacity based on Condensing Temperature stated in chart, 5.6°C Superheat, 0°C Subcooling.
4. The [920](#) and [920R](#) Series of components are suitable for subcritical applications up to 44.8 bar (650 PSI), and are ammonia compatible.