



300 and 900 Series: Ultra Low Temperatures (Tons)

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °F	Tons @ 0°F Condensing 10°F Superheat 0°F Subcooling							
R-23	-40	3.13	6.26	4.21	7.83	11.26	15.66	28.19	42.86
	-50	2.52	5.04	3.38	6.30	9.06	12.60	22.67	34.47
	-60	2.01	4.02	2.70	5.03	7.23	10.05	18.09	27.51
	-70	1.58	3.16	2.13	3.96	5.69	7.91	14.24	21.66
	-80	1.23	2.47	1.66	3.09	4.44	6.17	11.11	16.89
	-90	0.95	1.90	1.27	2.37	3.41	4.74	8.53	12.97
	-100	0.72	1.43	0.96	1.79	2.58	3.58	6.45	9.81
	-120	0.53	1.07	0.72	1.33	1.92	2.67	4.80	7.30
	-120	0.39	0.77	0.52	0.97	1.39	1.93	3.48	5.29

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °F	Tons @ 0°F Condensing 10°F Superheat 0°F Subcooling							
R-170	-40	3.05	6.09	4.09	7.62	10.96	15.24	27.43	41.70
	-50	2.51	5.02	3.37	6.28	9.02	12.55	22.59	34.34
	-60	2.05	4.10	2.75	5.12	7.37	10.25	18.45	28.05
	-70	1.66	3.32	2.23	4.15	5.96	8.29	14.92	22.69
	-80	1.33	2.65	1.78	3.32	4.77	6.64	11.95	18.17
	-90	1.05	2.10	1.41	2.63	3.78	5.25	9.46	14.38
	-100	0.82	1.64	1.10	2.05	2.95	4.11	7.39	11.23
	-110	0.63	1.26	0.85	1.58	2.27	3.16	5.69	8.66
	-120	0.48	0.96	0.64	1.20	1.72	2.40	4.32	6.56

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °F	Tons @ -10°F Condensing 10°F Superheat 0°F Subcooling							
R-508A	-40	3.44	6.87	4.62	8.59	12.36	17.19	30.93	47.04
	-50	2.76	5.52	3.71	6.91	9.93	13.81	24.86	37.79
	-60	2.20	4.40	2.96	5.50	7.91	11.00	19.80	30.11
	-70	1.73	3.47	2.33	4.34	6.24	8.68	15.62	23.74
	-80	1.35	2.70	1.82	3.38	4.86	6.76	12.17	18.51
	-90	1.04	2.08	1.40	2.60	3.74	5.21	9.37	14.25
	-100	0.79	1.58	1.06	1.98	2.84	3.95	7.11	10.81
	-110	0.59	1.18	0.79	1.48	2.12	2.95	5.31	8.08
	-120	0.43	0.87	0.58	1.08	1.56	2.17	3.90	5.93

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °F	Tons @ -20°F Condensing 10°F Superheat 0°F Subcooling							
R-508B	-50	3.00	6.01	4.04	7.51	10.80	15.02	27.04	41.11
	-60	2.40	4.79	3.22	5.99	8.62	11.99	21.57	32.80
	-70	1.89	3.78	2.54	4.73	6.81	9.46	17.03	25.90
	-80	1.48	2.95	1.98	3.69	5.31	7.39	13.29	20.21
	-90	1.12	2.23	1.50	2.79	4.02	5.59	10.06	15.29
	-100	0.86	1.73	1.16	2.16	3.10	4.32	7.77	11.81
	-110	0.64	1.29	0.87	1.61	2.32	3.22	5.80	8.81
	-120	0.47	0.94	0.63	1.18	1.70	2.36	4.24	6.45
	-130	0.34	0.68	0.45	0.85	1.22	1.69	3.04	4.63

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

300 and 900 Series Ultra Low Temperatures Notes:

1. Tons = Capacity in evaporator (12,000 BTUH/Hr/Ton), based on Condensing Temperature stated in the chart.
2. For applications other than reciprocating compressors, (scroll, screw type, 2-stage) please contact Temprite engineering at temprite@temprite.com.