



500 and 600 Series Conventional Oil Separators: kW

	Model	600	501 601	502 602	503 603	504 604	505 605	506 606	507 607
Connection Size		3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"	1-5/8"	2-1/8"
Refrigerant	Temp °C	kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling							
R-134a R-12 MP-39	4.4	4.29	6.44	12.87	19.31	25.74	32.22	45.72	80.89
	-6.7	4.11	6.16	12.31	18.43	24.62	30.80	43.70	77.37
	-12.2	4.01	6.02	12.03	17.99	24.06	30.10	42.70	75.63
	-17.8	3.92	5.88	11.75	17.55	23.49	29.39	41.68	73.86
	-23.3	3.83	5.74	11.47	17.11	22.93	28.68	40.67	72.11
R-22	4.4	6.58	9.85	19.70	29.54	39.39	49.24	83.00	140.68
	-6.7	6.33	9.48	18.96	28.43	37.91	47.39	79.75	135.41
	-12.2	6.21	9.30	18.59	27.88	37.18	46.48	78.14	132.79
	-17.8	6.09	9.11	18.22	27.33	36.44	45.55	76.50	130.13
	-23.3	5.96	8.93	17.85	26.78	35.70	44.63	74.88	127.52
	-28.9	5.84	8.74	17.48	26.22	34.96	43.70	73.24	124.86
	-34.4	5.71	8.56	17.11	25.67	34.23	42.78	71.63	122.24
-28.9	5.59	8.37	16.74	25.11	33.48	41.85	69.99	119.58	
R-410A AZ-20	4.4	9.14	14.07	27.08	40.80	54.51	67.88	114.65	194.14
	-6.7	8.79	13.54	26.11	39.31	52.40	65.33	110.17	186.84
	-12.2	8.62	13.28	25.63	38.56	51.35	64.07	107.95	183.23
	-17.8	8.44	13.02	25.15	37.81	50.29	62.78	105.69	179.55
	-23.3	8.27	12.75	24.67	37.07	49.24	61.52	103.46	175.93
	-28.9	8.09	12.49	24.18	36.32	48.18	60.23	101.20	172.25
	-34.4	7.92	12.23	23.70	35.57	47.13	58.97	98.98	168.63
-40	7.74	11.96	23.21	34.82	46.07	57.68	96.72	164.95	
R-507 AZ-50	4.4	6.58	9.85	19.70	29.54	39.39	49.24	83.00	140.68
	-6.7	6.33	9.48	18.96	28.43	37.91	47.39	79.75	135.41
	-12.2	6.21	9.30	18.59	27.88	37.18	46.48	78.14	132.79
	-17.8	6.09	9.11	18.22	27.33	36.44	45.55	76.50	130.13
	-23.3	5.96	8.93	17.85	26.78	35.70	44.63	74.88	127.52
	-28.9	5.84	8.74	17.48	26.22	34.96	43.70	73.24	124.86
	-34.4	5.71	8.56	17.11	25.67	34.23	42.78	71.63	122.24
-40	5.59	8.37	16.74	25.11	33.48	41.85	69.99	119.58	
R-404A HP-62 HP-80 R-502	4.4	6.58	9.85	19.70	29.54	39.39	49.24	83.00	140.68
	-6.7	6.33	9.48	18.96	28.43	37.91	47.39	79.75	135.41
	-12.2	6.21	9.30	18.59	27.88	37.18	46.48	78.14	132.79
	-17.8	6.09	9.11	18.22	27.33	36.44	45.55	76.50	130.13
	-23.3	5.96	8.93	17.85	26.78	35.70	44.63	74.88	127.52
	-28.9	5.84	8.74	17.48	26.22	34.96	43.70	73.24	124.86
	-34.4	5.71	8.56	17.11	25.67	34.23	42.78	71.63	122.24
-40	5.59	8.37	16.74	25.11	33.48	41.85	69.99	119.58	
R-717 NH ₃	4.4							93.76	158.97
	-1.1							92.85	157.51
	-6.7							91.94	156.06
	-12.2							91.03	154.60
	-17.8							90.12	153.15
	-23.3							89.21	151.69
	-28.9							88.30	150.24
	-34.4							87.39	148.78
-40							86.48	147.33	

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

500 and 600 Series (kW) Notes:

1. kW = Capacity based on +37.8°C Condensing Temperature, 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.