



Minimum Evaporating Temp. With:

- 20 K Suction Superheat — 20 °C Suction Gas Return — 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	2.84	3.90	5.24	6.90	8.94	11.40	14.25						
15.0	2.60	3.61	4.89	6.48	8.42	10.75	13.50	16.70					
20.0	2.35	3.32	4.54	6.05	7.89	10.10	12.70	15.80	19.30				
25.0	2.10	3.03	4.19	5.62	7.36	9.45	11.95	14.85	18.20	22.10	23.80	26.50	
30.0	1.84	2.73	3.83	5.18	6.83	8.80	11.15	13.90	17.10	20.80	22.40	25.00	27.30
35.0		2.44	3.48	4.75	6.29	8.14	10.35	12.95	15.95	19.45	21.00	23.40	25.60
40.0		2.14	3.12	4.31	5.75	7.48	9.54	11.95	14.80	18.10	19.55	21.90	24.00
45.0			2.76	3.87	5.21	6.82	8.74	11.00	13.70	16.75	18.15	20.30	22.30
50.0				3.43	4.67	6.16	7.94	10.05	12.55	15.45	16.70	18.80	20.60
55.0				3.00	4.13	5.50	7.14	9.09	11.40	14.10	15.30	17.25	18.95
60.0					3.61	4.85	6.34	8.14	10.25	12.75	13.85		
62.0					3.40	4.59	6.03	7.75	9.81	12.20	13.30		

Cond °C	Power, kW												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	1.44	1.60	1.74	1.86	1.92	1.94	1.89						
15.0	1.46	1.66	1.84	1.99	2.11	2.18	2.20	2.14					
20.0	1.48	1.70	1.90	2.11	2.28	2.41	2.48	2.49	2.43				
25.0	1.48	1.72	1.96	2.20	2.42	2.60	2.74	2.82	2.84	2.77	2.71	2.60	
30.0	1.46	1.73	2.01	2.28	2.55	2.78	2.98	3.13	3.22	3.23	3.21	3.15	3.08
35.0		1.73	2.04	2.35	2.65	2.94	3.19	3.41	3.57	3.66	3.67	3.67	3.64
40.0		1.72	2.05	2.39	2.74	3.07	3.38	3.66	3.89	4.06	4.10	4.15	4.17
45.0			2.04	2.42	2.80	3.18	3.55	3.88	4.18	4.42	4.50	4.60	4.66
50.0				2.42	2.85	3.27	3.69	4.08	4.44	4.76	4.87	5.02	5.12
55.0				2.41	2.87	3.33	3.80	4.25	4.68	5.07	5.21	5.40	5.55
60.0					2.87	3.37	3.89	4.39	4.88	5.34	5.51		
62.0					2.86	3.38	3.91	4.44	4.95	5.44	5.62		

Cond °C	Current at 400 V, A												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	4.93	5.07	5.20	5.31	5.38	5.40	5.34						
15.0	4.95	5.10	5.26	5.41	5.54	5.62	5.63	5.57					
20.0	4.97	5.14	5.32	5.51	5.69	5.83	5.91	5.93	5.86				
25.0	4.98	5.16	5.38	5.61	5.83	6.03	6.19	6.29	6.31	6.24	6.18	6.05	
30.0	4.98	5.18	5.42	5.69	5.96	6.22	6.45	6.64	6.75	6.78	6.77	6.71	6.63
35.0		5.19	5.46	5.76	6.08	6.40	6.70	6.97	7.18	7.31	7.34	7.35	7.33
40.0		5.18	5.47	5.82	6.19	6.57	6.94	7.28	7.58	7.82	7.89	7.97	8.02
45.0			5.47	5.85	6.27	6.71	7.15	7.57	7.96	8.30	8.42	8.57	8.67
50.0				5.86	6.32	6.82	7.33	7.84	8.32	8.76	8.92	9.14	9.31
55.0				5.84	6.35	6.91	7.49	8.07	8.64	9.19	9.39	9.68	9.91
60.0					6.35	6.96	7.61	8.27	8.94	9.58	9.83		
62.0					6.34	6.98	7.65	8.35	9.04	9.73	9.99		

Cond °C	Suction Mass Flow, g/s													
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	
10.0	13.25	18.20	24.50	32.40	42.10	53.80	67.80							
15.0	12.50	17.45	23.70	31.50	41.10	52.60	66.50	82.80						
20.0	11.75	16.65	22.80	30.50	39.90	51.40	65.00	81.20	100.50					
25.0	10.90	15.75	21.90	29.50	38.70	50.00	63.40	79.50	98.30	120.50	130.50	146.50		
30.0	9.97	14.80	20.90	28.30	37.40	48.50	61.80	77.60	96.30	118.50	128.00	144.00	158.50	
35.0		13.80	19.75	27.10	36.00	46.90	60.00	75.60	94.10	116.00	125.50	141.50	156.00	
40.0		12.75	18.60	25.80	34.50	45.20	58.10	73.50	91.80	113.50	123.00	139.00	153.50	
45.0			17.30	24.30	32.90	43.40	56.00	71.20	89.30	111.00	120.50	136.50	151.00	
50.0				22.80	31.20	41.40	53.80	68.80	86.70	108.00	118.00	133.50	148.00	
55.0				21.30	29.40	39.40	51.60	66.30	84.00	105.50	115.00	131.00	145.50	
60.0					27.50	37.20	49.10	63.70	81.30	102.50	112.00			
62.0					26.70	36.30	48.10	62.60	80.20	101.50	111.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m³/h	19.3
Bore/Stroke, mm	63.6/35.0
Length/Width, mm	590/330
Height, mm	470
Net Weight, kg	132
Gross Weight, kg	141
Rotalock Discharge, inch	7/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	2.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	295 x 279 (14)
Sound Pressure @ 1m, dBA	65
Sound Power, dBA	76
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	2107
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	10.3
Locked Rotor Current, A	55
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
AWM	380-420 V / 3~ / 50 Hz	400	YYY	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	Y	0.76
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00