



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			8.74	11.45	14.70	18.55	23.00			
10.0			8.20	10.80	13.90	17.55	21.80	26.70	32.30	38.60
15.0			7.69	10.15	13.10	16.55	20.60	25.20	30.50	36.60
20.0			7.21	9.53	12.30	15.55	19.35	23.70	28.80	34.50
25.0			6.74	8.92	11.50	14.60	18.15	22.30	27.00	32.40
30.0			6.25	8.30	10.75	13.60	16.95	20.80	25.30	30.30
35.0			5.75	7.66	9.93	12.60	15.70	19.30	23.50	28.20
40.0				6.99	9.08	11.55	14.40	17.75	21.60	26.10
45.0					8.19	10.45	13.10	16.20	19.75	23.80
50.0					7.23	9.29	11.70	14.50	17.80	21.60
55.0						8.05	10.20	12.80	15.75	19.20
60.0						6.72	8.66	10.95	13.60	
62.0							8.00	10.15	12.75	

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			3.35	3.68	3.95	4.13	4.21			
10.0			3.50	3.88	4.21	4.47	4.63	4.69	4.62	4.42
15.0			3.65	4.09	4.48	4.81	5.06	5.21	5.25	5.16
20.0			3.79	4.29	4.75	5.16	5.49	5.74	5.87	5.89
25.0			3.92	4.48	5.01	5.50	5.91	6.25	6.49	6.62
30.0			4.03	4.65	5.25	5.81	6.31	6.75	7.09	7.33
35.0			4.10	4.78	5.45	6.09	6.69	7.22	7.67	8.02
40.0				4.87	5.61	6.33	7.02	7.64	8.20	8.67
45.0					5.72	6.53	7.30	8.03	8.69	9.28
50.0					5.77	6.66	7.52	8.35	9.12	9.82
55.0						6.72	7.67	8.60	9.49	10.30
60.0						6.70	7.75	8.78	9.77	
62.0							7.75	8.82	9.86	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			8.76	9.09	9.36	9.55	9.62			
10.0			8.88	9.26	9.62	9.90	10.09	10.14	10.02	9.71
15.0			9.01	9.47	9.91	10.29	10.59	10.77	10.80	10.65
20.0			9.16	9.69	10.21	10.70	11.11	11.43	11.61	11.63
25.0			9.30	9.90	10.51	11.10	11.64	12.10	12.43	12.62
30.0			9.42	10.10	10.80	11.50	12.16	12.75	13.25	13.60
35.0			9.50	10.26	11.06	11.87	12.66	13.39	14.04	14.57
40.0				10.37	11.27	12.19	13.11	13.99	14.80	15.51
45.0					11.41	12.45	13.51	14.54	15.51	16.40
50.0					11.48	12.64	13.83	15.01	16.16	17.23
55.0						12.74	14.07	15.41	16.72	17.98
60.0						12.74	14.21	15.70	17.19	
62.0							14.23	15.79	17.34	

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			46.80	61.50	79.30	100.50	125.00			
10.0			45.60	60.20	77.80	98.60	123.00	151.50	185.00	223.00
15.0			44.60	59.00	76.40	96.90	121.00	149.50	182.50	220.00
20.0			43.70	57.90	75.00	95.30	119.50	147.50	180.00	217.00
25.0			42.80	56.80	73.70	93.70	117.50	145.00	177.00	215.00
30.0			41.80	55.60	72.20	91.90	115.00	142.50	174.50	212.00
35.0			40.60	54.30	70.60	90.00	113.00	140.00	171.50	208.00
40.0				52.50	68.60	87.60	110.00	137.00	168.00	205.00
45.0					66.10	84.80	107.00	133.50	164.50	201.00
50.0					62.90	81.30	103.00	129.00	160.00	196.50
55.0						76.80	98.30	124.00	155.00	191.50
60.0						71.00	92.30	118.00	149.00	
62.0							89.50	115.00	146.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m ³ /h	38.0
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	655/370
Height, mm	480
Net Weight, kg	150
Gross Weight, kg	161
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Oil Quantity, l	3.7
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	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	71
Sound Power (LT), dBA	82
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	68
Sound Power (MT), dBA	79
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	18.3
Locked Rotor Current, A	82
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

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

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00