



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 25 °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										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	12.70	16.60	21.30	26.90	33.50	41.20	50.10	60.30			
15.0	11.70	15.45	20.00	25.40	31.70	39.00	47.50	57.20	68.30		
20.0	10.60	14.30	18.65	23.80	29.70	36.70	44.80	54.00	64.50	76.40	81.60
25.0	9.49	13.05	17.20	22.10	27.80	34.40	42.00	50.70	60.60	71.90	76.80
30.0	8.34	11.80	15.75	20.40	25.80	32.00	39.10	47.30	56.70	67.30	71.90
35.0	7.17	10.50	14.25	18.65	23.70	29.50	36.20	43.90	52.70	62.70	67.00
40.0		9.16	12.75	16.85	21.60	27.00	33.20	40.40	48.60	57.90	62.00
45.0		7.82	11.20	15.00	19.40	24.40	30.20	36.90	44.50	53.10	56.90
50.0		6.45	9.62	13.15	17.20	21.80	27.10	33.20	40.20	48.20	51.80
55.0			8.03	11.30	15.00	19.20	24.00	29.60	36.00	43.30	46.50

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	5.10	5.71	6.21	6.59	6.81	6.87	6.73	6.37			
15.0	5.28	6.00	6.62	7.12	7.48	7.68	7.69	7.49	7.06		
20.0	5.39	6.23	6.97	7.61	8.10	8.45	8.61	8.58	8.32	7.82	7.55
25.0	5.44	6.40	7.27	8.04	8.68	9.17	9.50	9.63	9.55	9.24	9.04
30.0	5.41	6.49	7.50	8.41	9.20	9.85	10.35	10.65	10.75	10.60	10.50
35.0	5.30	6.52	7.66	8.71	9.66	10.45	11.15	11.60	11.90	11.95	11.90
40.0		6.46	7.75	8.95	10.05	11.05	11.85	12.55	13.00	13.25	13.30
45.0		6.32	7.75	9.11	10.40	11.55	12.55	13.40	14.05	14.50	14.65
50.0		6.09	7.67	9.19	10.65	11.95	13.15	14.20	15.05	15.70	15.95
55.0			7.50	9.19	10.80	12.30	13.70	14.90	16.00	16.85	17.15

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	15.00	15.50	15.96	16.33	16.58	16.65	16.51	16.11			
15.0	15.17	15.76	16.33	16.83	17.22	17.44	17.47	17.24	16.73		
20.0	15.28	15.99	16.68	17.31	17.85	18.24	18.44	18.42	18.11	17.49	17.14
25.0	15.33	16.16	16.98	17.77	18.47	19.03	19.43	19.61	19.53	19.14	18.89
30.0	15.30	16.26	17.23	18.18	19.05	19.81	20.41	20.81	20.96	20.82	20.67
35.0	15.18	16.28	17.42	18.53	19.60	20.56	21.37	22.00	22.40	22.52	22.48
40.0		16.21	17.52	18.82	20.08	21.26	22.30	23.18	23.83	24.22	24.30
45.0		16.03	17.52	19.02	20.50	21.90	23.19	24.32	25.24	25.92	26.11
50.0		15.73	17.41	19.13	20.83	22.47	24.01	25.41	26.62	27.59	27.91
55.0			17.18	19.12	21.06	22.96	24.77	26.44	27.95	29.23	29.68

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	70.80	92.80	119.50	151.50	189.50	234.00	287.00	348.00			
15.0	67.70	90.00	117.00	148.50	186.50	231.00	284.00	345.00	416.00		
20.0	64.20	86.80	113.50	145.50	183.50	228.00	280.00	340.00	411.00	493.00	529.00
25.0	60.20	83.20	110.00	142.00	179.50	224.00	275.00	336.00	406.00	488.00	524.00
30.0	55.70	79.00	106.00	138.00	175.00	219.00	270.00	330.00	400.00	482.00	519.00
35.0	50.60	74.20	101.50	133.00	170.50	214.00	265.00	324.00	394.00	476.00	512.00
40.0		68.80	96.20	128.00	165.00	208.00	258.00	318.00	387.00	469.00	506.00
45.0		62.70	90.30	122.00	158.50	201.00	252.00	311.00	380.00	462.00	499.00
50.0		55.80	83.60	115.00	151.50	194.00	244.00	303.00	372.00	455.00	492.00
55.0			76.00	107.50	144.00	186.50	236.00	295.00	365.00	448.00	486.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	56.0
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	650/535
Height, mm	495
Net Weight, kg	196
Gross Weight, kg	212
Suction, inch	1 5/8
Discharge, inch	1 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
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	381 x 305 (18)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	71
Sound Power (HT), dBA	82
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 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	32.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Unloaded start	Available
Deep Oil Sump	Mounted
Capacity Control	Capacity Steps 50%
Check Valve	For unloaded start operation

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	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
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
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
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
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