



Minimum Evaporating Temp. With:

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

Suction Return Temperature 18.3°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	33.40	43.90	57.00	73.00	92.30	115.00	142.00						
15.0	30.80	41.00	53.50	68.80	87.10	109.00	134.50	164.00					
20.0	28.20	38.00	50.00	64.50	81.90	102.50	126.50	155.00	187.00	224.00			
25.0		35.10	46.50	60.30	76.80	96.30	119.00	145.50	176.50	211.00	227.00	251.00	273.00
30.0		32.20	43.10	56.10	71.70	90.00	111.50	136.50	165.50	199.00	214.00	237.00	258.00
35.0			39.60	52.00	66.60	83.90	104.00	128.00	155.00	186.50	200.00	222.00	242.00
40.0				47.80	61.50	77.70	96.70	119.00	144.50	174.00	187.00	208.00	226.00
45.0				43.70	56.50	71.60	89.30	110.00	134.00	161.50	174.00	193.50	211.00
50.0					51.50	65.50	81.90	101.00	123.50	149.50	160.50	179.00	195.00
55.0					46.60	59.50	74.60	92.40	113.00	137.00	147.50		
60.0						53.50	67.40	83.60	102.50				
62.0						51.10	64.50	80.10	98.50				

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	12.5
10.0	14.60	16.30	17.80	19.05	19.95	20.40	20.30						
15.0	15.10	17.05	18.90	20.60	21.90	22.90	23.40	23.30					
20.0	15.50	17.70	19.90	21.90	23.70	25.10	26.20	26.70	26.70	25.90			
25.0		18.25	20.70	23.10	25.30	27.20	28.80	29.90	30.50	30.50	30.30	29.80	29.10
30.0		18.70	21.40	24.20	26.80	29.20	31.30	33.00	34.20	34.90	34.90	34.90	34.60
35.0			22.00	25.10	28.10	30.90	33.50	35.80	37.60	39.00	39.30	39.70	39.80
40.0				25.90	29.20	32.50	35.60	38.40	40.90	42.90	43.50	44.30	44.80
45.0				26.50	30.30	33.90	37.50	40.80	43.90	46.50	47.40	48.70	49.60
50.0					31.10	35.20	39.20	43.10	46.70	50.00	51.20	52.80	54.10
55.0					31.90	36.30	40.80	45.10	49.30	53.20	54.60		
60.0						37.30	42.20	47.00	51.70				
62.0						37.70	42.70	47.70	52.60				

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	46.69	48.06	49.44	50.65	51.53	51.94	51.71						
15.0	47.08	48.67	50.36	51.98	53.38	54.40	54.88	54.66					
20.0	47.43	49.24	51.24	53.28	55.19	56.81	58.00	58.58	58.41	57.32			
25.0		49.75	52.06	54.51	56.92	59.15	61.04	62.43	63.15	63.06	62.76	62.00	61.05
30.0		50.19	52.80	55.65	58.57	61.40	63.99	66.18	67.80	68.71	68.83	68.74	68.37
35.0			53.44	56.70	60.12	63.55	66.84	69.82	72.34	74.24	74.79	75.35	75.57
40.0				57.62	61.54	65.57	69.55	73.33	76.74	79.63	80.60	81.83	82.63
45.0				58.41	62.82	67.45	72.12	76.69	80.99	84.87	86.26	88.16	89.54
50.0					63.95	69.16	74.53	79.88	85.07	89.93	91.75	94.31	96.26
55.0					64.89	70.69	76.75	82.89	88.96	94.80	97.04		
60.0						72.03	78.77	85.69	92.64				
62.0						72.50	79.51	86.75	94.06				

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	154.00	203.00	264.00	339.00	430.00	539.00	669.00						
15.0	147.00	196.00	256.00	331.00	420.00	528.00	655.00	805.00					
20.0	139.50	188.50	249.00	322.00	410.00	516.00	642.00	790.00	963.00	1165.00			
25.0		181.00	240.00	313.00	400.00	504.00	628.00	774.00	945.00	1145.00	1234.00	1379.00	1510.00
30.0		173.00	232.00	303.00	389.00	492.00	614.00	758.00	927.00	1125.00	1214.00	1357.00	1487.00
35.0			223.00	294.00	378.00	479.00	599.00	741.00	908.00	1105.00	1192.00	1335.00	1465.00
40.0				283.00	367.00	466.00	584.00	724.00	889.00	1084.00	1171.00	1313.00	1442.00
45.0				273.00	355.00	452.00	568.00	706.00	869.00	1062.00	1149.00	1290.00	1420.00
50.0					342.00	438.00	552.00	688.00	850.00	1041.00	1128.00	1269.00	1398.00
55.0					329.00	424.00	536.00	670.00	830.00	1021.00	1107.00		
60.0						409.00	520.00	652.00	811.00				
62.0						403.00	513.00	645.00	804.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m³/h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	331
Gross Weight, kg	352
Suction, inch	3 1/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
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	457 x 305 (18)
Sound Pressure @ 1m, dBA	79.5
Sound Power, dBA	90.5
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	108
Locked Rotor Current, A	476
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3

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