



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ 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
10.0	14.10	18.75	24.60	31.70	40.30	50.60	62.60	76.60	
15.0	13.50	18.00	23.60	30.50	38.70	48.40	59.80	73.10	
20.0	12.80	17.20	22.60	29.10	36.90	46.20	57.00	69.50	
25.0	11.95	16.35	21.50	27.80	35.20	43.90	54.10	65.90	79.50
30.0	11.05	15.30	20.30	26.30	33.30	41.50	51.20	62.30	75.10
35.0	9.99	14.20	19.05	24.70	31.40	39.10	48.20	58.70	70.70
40.0	8.80	12.95	17.65	23.10	29.30	36.70	45.10	54.90	66.20
45.0	7.46	11.55	16.10	21.30	27.20	34.10	42.00	51.10	61.70
50.0	5.96	10.00	14.45	19.40	25.00	31.40	38.80	47.30	57.00
55.0	4.29	8.33	12.65	17.35	22.60	28.60	35.40	43.30	52.30
60.0	2.44	6.47	10.65	15.15	20.10	25.70	32.00	39.20	
62.0	1.65	5.67	9.82	14.25	19.10	24.50	30.60	37.60	

50 Hz

4MT-22X DC

R407A Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	6.46	7.36	8.21	8.95	9.55	9.97	10.20	10.15	
15.0	6.80	7.81	8.78	9.67	10.45	11.05	11.45	11.60	
20.0	7.10	8.23	9.34	10.40	11.30	12.10	12.70	13.10	
25.0	7.37	8.62	9.86	11.05	12.15	13.15	13.95	14.60	14.95
30.0	7.57	8.95	10.35	11.70	13.00	14.15	15.20	16.05	16.65
35.0	7.71	9.23	10.75	12.30	13.75	15.15	16.40	17.50	18.35
40.0	7.77	9.43	11.15	12.85	14.50	16.10	17.55	18.90	20.00
45.0	7.75	9.55	11.40	13.30	15.15	16.95	18.65	20.20	21.60
50.0	7.61	9.57	11.60	13.65	15.70	17.75	19.70	21.50	23.20
55.0	7.37	9.48	11.70	13.95	16.20	18.45	20.60	22.70	24.70
60.0	7.00	9.27	11.65	14.10	16.60	19.05	21.50	23.80	
62.0	6.81	9.15	11.60	14.15	16.70	19.25	21.80	24.30	

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
10.0	16.10	17.05	17.99	18.84	19.53	20.00	20.17	19.98	
15.0	16.47	17.54	18.64	19.68	20.60	21.34	21.81	21.95	
20.0	16.80	18.01	19.27	20.52	21.68	22.68	23.47	23.96	
25.0	17.10	18.44	19.88	21.34	22.74	24.03	25.14	25.98	26.51
30.0	17.33	18.83	20.45	22.13	23.79	25.37	26.81	28.02	28.94
35.0	17.50	19.15	20.96	22.87	24.80	26.69	28.46	30.04	31.38
40.0	17.58	19.40	21.41	23.56	25.77	27.97	30.08	32.05	33.80
45.0	17.56	19.56	21.79	24.18	26.68	29.19	31.67	34.03	36.21
50.0	17.44	19.62	22.07	24.73	27.51	30.36	33.20	35.96	38.58
55.0	17.19	19.57	22.25	25.17	28.26	31.45	34.67	37.84	40.91
60.0	16.81	19.39	22.32	25.52	28.92	32.45	36.05	39.65	
62.0	16.62	19.29	22.31	25.62	29.15	32.83	36.58	40.35	

50 Hz

4MT-22X DC

R407A Dew Point

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
10.0	66.00	88.00	115.50	149.50	191.00	241.00	300.00	369.00	
15.0	65.40	87.60	115.00	149.00	190.00	239.00	297.00	365.00	
20.0	64.30	86.80	114.50	148.00	188.50	236.00	293.00	361.00	
25.0	62.60	85.60	113.00	146.50	186.50	234.00	290.00	356.00	433.00
30.0	60.20	83.70	111.50	144.50	184.00	231.00	286.00	351.00	427.00
35.0	56.90	81.10	109.00	142.00	181.50	227.00	282.00	346.00	421.00
40.0	52.50	77.50	106.00	139.00	178.00	223.00	277.00	340.00	414.00
45.0	46.90	72.80	102.00	135.50	173.50	219.00	272.00	334.00	407.00
50.0	39.60	66.80	96.70	130.50	169.00	213.00	266.00	327.00	399.00
55.0	30.30	59.00	89.90	124.00	162.50	207.00	259.00	319.00	390.00
60.0	18.45	49.10	81.20	116.00	155.00	199.50	251.00	311.00	
62.0	12.85	44.40	77.20	112.50	151.50	196.00	247.00	307.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	183
Suction, inch	2 1/8
Discharge, inch	1 3/8
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 (LT), dBA	77
Sound Power (LT), dBA	88
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
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	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	44.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Electronic Switch
Next Generation CoreSense (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Additional Cooling	Demand Cooling (Driver XEV01D)
Crankcase Heater	100 W Internal
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Mounting Parts	Rubber
NG CoreSense module	Modbus extension module

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00