



Minimum Evaporating Temp. With:

- █ 35 °C Suction Gas Return
- █ Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
27.0	2.87	5.08	7.59	10.45	13.70	17.45	21.70	24.10
30.0	2.73	4.85	7.28	10.05	13.15	16.80	21.00	23.30
35.0	2.37	4.37	6.66	9.27	12.25	15.70	19.65	21.90
40.0	1.91	3.76	5.91	8.38	11.20	14.50	18.25	20.40
45.0		3.07	5.08	7.39	10.05	13.15	16.75	18.75
50.0		2.37	4.20	6.35	8.86	11.80	15.20	17.10
55.0			3.33	5.31	7.64	10.40	13.60	15.40
60.0				4.30	6.44	8.99	12.00	13.70
65.0					5.32	7.66	10.45	12.05

50 Hz

CR53KQME-TFD

R407C Dew Point

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
27.0	2.08	2.32	2.52	2.68	2.81	2.93	3.03	3.08
30.0	2.08	2.35	2.57	2.77	2.93	3.08	3.21	3.28
35.0	2.06	2.37	2.65	2.89	3.10	3.29	3.48	3.57
40.0	2.02	2.38	2.70	2.99	3.25	3.49	3.72	3.84
45.0		2.37	2.74	3.07	3.38	3.67	3.95	4.09
50.0		2.33	2.75	3.13	3.49	3.83	4.16	4.33
55.0			2.72	3.16	3.56	3.96	4.34	4.53
60.0				3.15	3.61	4.05	4.49	4.71
65.0					3.62	4.11	4.60	4.85

Cond °C	Current at 380 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
27.0	5.30	5.54	5.77	5.97	6.14	6.25	6.30	6.29
30.0	5.34	5.57	5.81	6.04	6.25	6.41	6.51	6.53
35.0	5.40	5.63	5.89	6.16	6.41	6.64	6.83	6.90
40.0	5.46	5.69	5.97	6.26	6.57	6.86	7.13	7.26
45.0		5.74	6.03	6.35	6.71	7.07	7.43	7.60
50.0		5.77	6.06	6.42	6.82	7.25	7.69	7.91
55.0			6.07	6.45	6.90	7.39	7.91	8.17
60.0				6.43	6.92	7.48	8.08	8.39
65.0					6.90	7.51	8.19	8.55

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5
27.0	15.15	26.40	38.90	52.70	68.20	85.70	105.50	116.50
30.0	14.80	25.90	38.30	52.00	67.30	84.70	104.50	115.00
35.0	13.40	24.30	36.50	50.00	65.20	82.40	102.00	112.50
40.0	11.30	21.90	33.90	47.20	62.30	79.20	98.50	109.00
45.0		18.80	30.50	43.70	58.50	75.40	94.50	105.00
50.0		15.25	26.50	39.50	54.10	70.80	89.90	100.50
55.0			22.30	34.80	49.20	65.70	84.70	95.10
60.0				30.00	44.00	60.30	79.10	89.60
65.0					38.80	54.80	73.40	83.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	15.4
Bore/Stroke, mm	49.8/22.6
Length/Width, mm	274/257
Height, mm	362
Net Weight, kg	36.2
Gross Weight, kg	37.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.33
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	NA (0)
Sound Pressure @ 1m (HT), dBA	65
Sound Power (HT), dBA	76
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Locked Rotor Current, A	61
Default Enclosure Class	Not Available

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	380		Y	1.00