



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	8.63	11.10	14.05	17.60	21.70	26.50	28.60	31.90		
35.0	8.03	10.35	13.20	16.60	20.60	25.20	27.20	30.40	33.30	
40.0	7.46	9.65	12.35	15.55	19.35	23.80	25.70	28.90	31.70	34.70
45.0		8.95	11.45	14.55	18.15	22.40	24.30	27.30	29.90	32.80
50.0		8.27	10.60	13.50	16.90	20.90	22.70	25.60	28.20	30.90
55.0			9.76	12.40	15.65	19.45	21.10	23.80	26.30	28.90
60.0				11.35	14.35	17.90	19.50	22.10	24.40	26.90
65.0				10.30	13.05	16.35	17.80	20.20	22.40	24.80
70.0					11.70	14.75	16.10	18.35	20.40	22.60
75.0					10.35	13.10	14.35	16.40	18.30	20.30

50 Hz

ZRT144KCE-TFD

R134a

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	4.04	4.02	4.02	4.05	4.08	4.13	4.15	4.18		
35.0	4.58	4.56	4.55	4.57	4.60	4.65	4.67	4.70	4.72	
40.0	5.18	5.14	5.13	5.14	5.16	5.20	5.22	5.24	5.27	5.30
45.0		5.79	5.77	5.76	5.78	5.80	5.82	5.84	5.86	5.89
50.0		6.53	6.49	6.47	6.47	6.48	6.49	6.51	6.53	6.55
55.0			7.32	7.28	7.26	7.26	7.26	7.27	7.28	7.29
60.0				8.20	8.16	8.14	8.14	8.13	8.14	8.14
65.0				9.27	9.20	9.16	9.15	9.13	9.12	9.12
70.0					10.40	10.35	10.30	10.30	10.25	10.25
75.0					11.80	11.65	11.65	11.60	11.55	11.50

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	9.86	9.87	9.88	9.88	9.90	9.94	9.97	10.02		
35.0	10.39	10.41	10.41	10.42	10.44	10.48	10.50	10.55	10.61	
40.0	11.04	11.05	11.04	11.04	11.06	11.09	11.11	11.16	11.21	11.28
45.0		11.81	11.80	11.79	11.79	11.81	11.83	11.87	11.92	11.98
50.0		12.74	12.70	12.68	12.66	12.67	12.68	12.71	12.75	12.80
55.0			13.79	13.74	13.70	13.68	13.69	13.70	13.73	13.77
60.0				15.00	14.93	14.89	14.88	14.88	14.90	14.92
65.0				16.49	16.39	16.31	16.29	16.27	16.27	16.28
70.0					18.10	17.98	17.95	17.90	17.88	17.87
75.0					20.09	19.93	19.87	19.80	19.76	19.73

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	56.70	71.20	88.50	108.50	131.50	157.50	168.50	186.00		
35.0	55.50	69.90	87.10	107.00	130.00	156.50	167.50	185.50	201.00	
40.0	54.30	68.60	85.70	105.50	129.00	155.00	166.50	184.50	200.00	217.00
45.0		67.20	84.10	104.00	127.00	153.50	164.50	183.00	199.00	216.00
50.0		66.00	82.50	102.00	125.00	151.50	163.00	181.00	197.00	214.00
55.0			80.80	100.00	123.00	149.00	160.50	178.50	195.00	212.00
60.0				98.00	120.50	146.50	157.50	176.00	192.00	209.00
65.0				95.60	117.50	143.00	154.50	172.50	189.00	206.00
70.0					114.50	139.50	151.00	169.00	185.00	202.00
75.0					111.00	135.50	147.00	164.50	181.00	198.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	34.0
Length/Width, mm	626/297
Height, mm	478
Net Weight, kg	93
Gross Weight, kg	113
Stub Suction, inch	1 1/8
Stub Discharge, inch	3/4
Oil Quantity, l	3.37
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	546 x 190.5 (22.4)
Sound Pressure @ 1m (HT), dBA	64
Sound Power (HT), dBA	75
Sound Power with Sound Shell (HT), dBA	69
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
Max. Internal Free Volume, l	8.10
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	2 x 13
Locked Rotor Current, A	2 x 74
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Capacity Control	Capacity Steps 50%
Discharge Temperature Protection	Internal Thermodisk

ACCESSORIES OPTIONAL

Crankcase Heater	2 x 70 W External
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50 Hz

ZRT144KCE-TFD

R134a

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04