



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	4.31	5.54	7.02	8.79	10.85	13.25	14.30	15.95		
35.0	4.02	5.18	6.60	8.29	10.30	12.60	13.60	15.20	16.65	
40.0	3.73	4.82	6.17	7.78	9.69	11.90	12.85	14.45	15.85	17.35
45.0		4.47	5.74	7.26	9.07	11.20	12.15	13.65	14.95	16.40
50.0		4.13	5.31	6.74	8.45	10.45	11.35	12.80	14.10	15.45
55.0			4.88	6.21	7.82	9.72	10.55	11.90	13.15	14.45
60.0				5.68	7.17	8.95	9.75	11.05	12.20	13.45
65.0				5.15	6.52	8.17	8.91	10.10	11.20	12.40
70.0					5.85	7.37	8.05	9.18	10.20	11.30
75.0					5.18	6.55	7.18	8.21	9.15	10.15

50 Hz	ZR72KCE-TFD										R134a
Cond	Power, kW										
°C	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	
30.0	2.02	2.01	2.01	2.02	2.04	2.06	2.07	2.09			
35.0	2.29	2.28	2.28	2.29	2.30	2.32	2.33	2.35	2.36		
40.0	2.59	2.57	2.56	2.57	2.58	2.60	2.61	2.62	2.63	2.65	
45.0		2.90	2.88	2.88	2.89	2.90	2.91	2.92	2.93	2.94	
50.0		3.27	3.24	3.23	3.23	3.24	3.25	3.26	3.26	3.27	
55.0			3.66	3.64	3.63	3.63	3.63	3.63	3.64	3.64	
60.0				4.10	4.08	4.07	4.07	4.07	4.07	4.07	
65.0				4.64	4.60	4.58	4.57	4.57	4.56	4.56	
70.0					5.20	5.17	5.15	5.14	5.13	5.12	
75.0					5.89	5.84	5.82	5.79	5.78	5.76	
Cond	Current at 400 V, A										
°C	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	
30.0	4.93	4.94	4.94	4.94	4.95	4.97	4.98	5.01			
35.0	5.20	5.20	5.21	5.21	5.22	5.24	5.25	5.28	5.30		
40.0	5.52	5.52	5.52	5.52	5.53	5.55	5.56	5.58	5.61	5.64	
45.0		5.91	5.90	5.89	5.89	5.91	5.92	5.94	5.96	5.99	
50.0		6.37	6.35	6.34	6.33	6.33	6.34	6.35	6.37	6.40	
55.0			6.89	6.87	6.85	6.84	6.84	6.85	6.87	6.89	
60.0				7.50	7.47	7.44	7.44	7.44	7.45	7.46	
65.0				8.25	8.19	8.16	8.15	8.14	8.14	8.14	
70.0					9.05	8.99	8.97	8.95	8.94	8.94	
75.0					10.04	9.96	9.94	9.90	9.88	9.86	
Cond	Suction Mass Flow, g/s										
°C	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	
30.0	28.30	35.60	44.20	54.30	65.70	78.70	84.30	93.10			
35.0	27.70	34.90	43.60	53.60	65.10	78.10	83.80	92.70	100.50		
40.0	27.20	34.30	42.80	52.90	64.40	77.50	83.10	92.10	100.00	108.50	
45.0		33.60	42.10	52.00	63.50	76.70	82.40	91.40	99.40	108.00	
50.0		33.00	41.30	51.10	62.60	75.70	81.40	90.50	98.50	107.00	
55.0			40.40	50.10	61.50	74.50	80.20	89.30	97.40	106.00	
60.0				49.00	60.20	73.20	78.90	88.00	96.10	104.50	
65.0				47.80	58.80	71.60	77.30	86.40	94.50	103.00	
70.0					57.20	69.90	75.50	84.50	92.60	101.00	
75.0					55.40	67.90	73.40	82.40	90.40	99.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	17.1
Length/Width, mm	246/246
Height, mm	451
Net Weight, kg	38.6
Gross Weight, kg	44
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.77
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	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	61
Sound Power (HT), dBA	72
Sound Power with Sound Shell (HT), dBA	66
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.10
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.1
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09