



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	6.42	8.19	10.35	12.95	16.00	19.60					
25.0	6.06	7.77	9.84	12.35	15.30	18.75					
30.0	5.71	7.35	9.34	11.75	14.55	17.90	21.80	23.50			
35.0	5.36	6.93	8.83	11.10	13.85	17.05	20.80	22.40	25.10		
40.0	5.02	6.51	8.33	10.50	13.10	16.15	19.75	21.30	23.90	26.20	28.70
45.0	4.67	6.10	7.82	9.89	12.35	15.30	18.70	20.20	22.70	24.90	27.30
50.0	4.33	5.68	7.30	9.26	11.60	14.40	17.65	19.10	21.50	23.60	25.90
55.0	3.99	5.26	6.79	8.63	10.85	13.45	16.55	17.95	20.20	22.20	24.40
60.0		4.84	6.27	8.00	10.05	12.55	15.50	16.80	18.90	20.80	22.90
65.0			5.75	7.35	9.29	11.60	14.35	15.60	17.60	19.45	21.40
70.0				6.70	8.50	10.65	13.25	14.40	16.30	18.05	19.90
75.0				6.05	7.70	9.70	12.10	13.20	14.95	16.60	18.35

50 Hz

ZH75K4E-TWD

R134a

Cond °C	Power, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	2.86	2.95	3.08	3.26	3.51	3.84					
25.0	3.10	3.19	3.30	3.43	3.63	3.89					
30.0	3.35	3.45	3.56	3.67	3.83	4.03	4.30	4.44			
35.0	3.59	3.73	3.85	3.96	4.10	4.27	4.48	4.59	4.77		
40.0	3.81	4.00	4.16	4.29	4.43	4.58	4.76	4.85	4.99	5.13	5.29
45.0	4.00	4.26	4.48	4.65	4.80	4.95	5.12	5.19	5.32	5.44	5.57
50.0	4.14	4.50	4.79	5.02	5.21	5.38	5.55	5.62	5.74	5.84	5.95
55.0	4.23	4.70	5.08	5.39	5.64	5.85	6.04	6.12	6.23	6.33	6.43
60.0		4.85	5.35	5.75	6.08	6.35	6.58	6.67	6.79	6.90	7.00
65.0			5.57	6.09	6.51	6.86	7.16	7.26	7.41	7.53	7.64
70.0				6.39	6.93	7.38	7.75	7.88	8.07	8.21	8.34
75.0				6.64	7.32	7.88	8.35	8.52	8.75	8.93	9.09

Cond °C	Current at 400 V, A										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	9.96	10.02	10.10	10.23	10.42	10.68					
25.0	10.13	10.18	10.25	10.35	10.49	10.70					
30.0	10.30	10.37	10.44	10.53	10.65	10.81	11.04	11.14			
35.0	10.47	10.57	10.67	10.76	10.87	11.01	11.20	11.29	11.45		
40.0	10.63	10.79	10.92	11.04	11.16	11.29	11.46	11.54	11.67	11.80	11.95
45.0	10.78	11.01	11.19	11.35	11.50	11.65	11.81	11.89	12.01	12.13	12.25
50.0	10.91	11.22	11.48	11.70	11.89	12.07	12.25	12.32	12.45	12.56	12.68
55.0	11.01	11.42	11.77	12.06	12.32	12.54	12.76	12.85	12.98	13.09	13.22
60.0		11.61	12.06	12.45	12.78	13.07	13.34	13.44	13.60	13.73	13.86
65.0			12.34	12.84	13.27	13.65	13.99	14.11	14.30	14.45	14.60
70.0				13.24	13.78	14.26	14.68	14.84	15.07	15.25	15.43
75.0				13.63	14.31	14.90	15.43	15.62	15.90	16.12	16.34

Cond °C	Suction Mass Flow, g/s										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	39.30	49.10	60.80	74.60	90.60	109.00					
25.0	38.80	48.70	60.50	74.20	90.30	109.00					
30.0	38.30	48.30	60.10	73.80	89.90	108.50	129.50	138.50			
35.0	37.90	47.90	59.60	73.40	89.50	108.00	129.00	138.50	153.00		
40.0	37.40	47.40	59.20	73.00	89.00	107.50	128.50	138.00	152.50	166.00	179.50
45.0	36.90	47.00	58.70	72.50	88.50	107.00	128.00	137.50	152.00	165.50	179.50
50.0	36.50	46.50	58.30	72.00	88.00	106.50	127.50	137.00	151.50	165.00	179.00
55.0	36.00	46.10	57.80	71.50	87.40	106.00	127.00	136.50	151.50	164.50	178.50
60.0		45.60	57.30	71.00	86.90	105.50	126.50	136.00	151.00	164.00	178.50
65.0			56.80	70.40	86.30	105.00	126.00	135.50	150.50	164.00	178.00
70.0				70.00	85.80	104.50	125.50	135.00	150.00	163.50	178.00
75.0				69.60	85.40	104.00	125.50	135.00	150.00	164.00	178.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	28.8
Length/Width, mm	357/321
Height, mm	497
Net Weight, kg	93
Gross Weight, kg	100
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4
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	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	72
Sound Power (HT), dBA	83
Sound Power with Sound Shell (HT), dBA	73
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	-7 / 50 / 3 °C at 50 Hz
PED Category	2
Max. Low Side Internal Free Volume, l	15.5
Max. High Side Internal Free Volume, l	2.1
Max. Internal Free Volume, l	17.6
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

50 Hz

ZH75K4E-TWD

R134a

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

Maximum Operating Current, A	21
Locked Rotor Current, A	127
Winding Resistance, ohm	1.02
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Sound Attenuation	Sound Shell (10dBA)
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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>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWR	220-240 V / 3~ / 50 Hz	230		Y	1.73