



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 5 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
17.0	4.03	5.11	6.43									
20.0	3.91	4.96	6.25	7.82								
25.0	3.70	4.71	5.95	7.46	9.26	11.40						
30.0	3.50	4.46	5.65	7.08	8.81	10.85	13.25	14.30				
35.0	3.29	4.21	5.33	6.70	8.34	10.30	12.55	13.55	15.20	16.65	18.25	
40.0	3.10	3.96	5.02	6.31	7.86	9.70	11.85	12.85	14.40	15.80	17.30	20.60
45.0	2.90	3.71	4.70	5.91	7.37	9.11	11.15	12.10	13.55	14.90	16.35	19.50
50.0		3.46	4.38	5.50	6.86	8.50	10.45	11.30	12.70	13.95	15.35	18.35
55.0			4.05	5.09	6.35	7.87	9.68	10.50	11.80	13.00	14.30	17.15
60.0				4.67	5.83	7.23	8.91	9.67	10.90	12.05	13.25	15.95
65.0					5.30	6.58	8.13	8.83	9.97	11.00	12.15	
67.0						6.32	7.81	8.49	9.60	10.60	11.70	

50 Hz

ZH30K4E-TFD

R407C Dew Point

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
17.0	1.44	1.49	1.54									
20.0	1.54	1.58	1.63	1.68								
25.0	1.70	1.75	1.80	1.85	1.90	1.96						
30.0	1.87	1.93	1.98	2.04	2.09	2.15	2.22	2.25				
35.0	2.05	2.12	2.19	2.25	2.31	2.37	2.43	2.46	2.51	2.55	2.60	
40.0	2.25	2.34	2.41	2.48	2.54	2.61	2.68	2.71	2.75	2.79	2.84	2.94
45.0	2.47	2.57	2.66	2.74	2.81	2.88	2.95	2.98	3.03	3.07	3.11	3.21
50.0		2.83	2.93	3.02	3.11	3.19	3.26	3.30	3.35	3.39	3.43	3.53
55.0			3.23	3.34	3.44	3.53	3.61	3.65	3.70	3.75	3.79	3.89
60.0				3.69	3.80	3.91	4.01	4.04	4.10	4.15	4.20	4.30
65.0					4.21	4.33	4.44	4.48	4.55	4.60	4.65	
67.0						4.51	4.63	4.67	4.74	4.80	4.85	

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
17.0	3.68	3.71	3.75									
20.0	3.76	3.80	3.84	3.89								
25.0	3.91	3.96	4.01	4.06	4.11	4.18						
30.0	4.08	4.14	4.20	4.26	4.32	4.38	4.46	4.49				
35.0	4.27	4.35	4.42	4.49	4.55	4.62	4.70	4.74	4.79	4.84	4.90	
40.0	4.49	4.59	4.67	4.75	4.83	4.91	4.99	5.03	5.08	5.13	5.19	5.31
45.0	4.74	4.86	4.97	5.06	5.15	5.24	5.33	5.37	5.43	5.48	5.54	5.66
50.0		5.17	5.30	5.42	5.53	5.63	5.73	5.77	5.83	5.89	5.95	6.07
55.0			5.69	5.83	5.95	6.07	6.19	6.23	6.30	6.36	6.42	6.55
60.0				6.29	6.44	6.58	6.71	6.76	6.84	6.91	6.97	7.11
65.0					6.99	7.15	7.31	7.37	7.45	7.53	7.60	
67.0						7.40	7.56	7.63	7.72	7.80	7.87	

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
17.0	21.50	26.70	33.20									
20.0	21.30	26.60	33.00	40.70								
25.0	21.10	26.40	32.80	40.40	49.40	59.90						
30.0	20.80	26.10	32.50	40.10	49.10	59.50	71.60	76.90				
35.0	20.60	25.80	32.10	39.70	48.60	59.00	71.00	76.30	84.80	92.30	100.50	
40.0	20.40	25.50	31.80	39.30	48.10	58.40	70.40	75.60	84.10	91.60	99.60	117.00
45.0	20.20	25.30	31.40	38.80	47.50	57.80	69.60	74.90	83.30	90.80	98.80	116.50
50.0		25.10	31.10	38.30	46.90	57.00	68.80	74.00	82.30	89.80	97.80	115.50
55.0			30.70	37.80	46.20	56.20	67.80	73.00	81.30	88.80	96.80	114.50
60.0				37.30	45.50	55.30	66.80	71.90	80.20	87.70	95.60	113.00
65.0					44.80	54.40	65.70	70.80	79.00	86.50	94.50	
67.0						54.00	65.30	70.40	78.60	86.00	94.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.7
Length/Width, mm	247/241
Height, mm	438
Net Weight, kg	38
Gross Weight, kg	41
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
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	65
Sound Power (HT), dBA	76
Sound Power with Sound Shell (HT), dBA	67
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	-7 / 50 / 3 °C at 50 Hz
PED Category	1
Max. Low Side Internal Free Volume, l	0.6
Max. High Side Internal Free Volume, l	6.0
Max. Internal Free Volume, l	6.60
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	8.2
Locked Rotor Current, A	64
Winding Resistance, ohm	2.95
Default Enclosure Class	IP 21 (IEC 34)

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	400		Y	1.00
TFR	220-240 V / 3~ / 50 Hz	230		Y	1.73
TFD	460 V / 3~ / 60 Hz	460		Y	1.04