



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	25.0
20.0	2.64	3.35	4.20	5.23	6.45	7.89							
25.0	2.50	3.18	4.00	4.99	6.17	7.55	9.17						
30.0	2.35	3.01	3.80	4.75	5.88	7.21	8.77	9.46	10.55				
35.0	2.21	2.84	3.60	4.51	5.59	6.86	8.35	9.02	10.10	11.05	12.10		
40.0	2.06	2.67	3.39	4.26	5.29	6.51	7.93	8.57	9.60	10.50	11.50	13.70	
45.0	1.92	2.50	3.18	4.01	4.99	6.15	7.51	8.12	9.10	9.98	10.95	13.05	15.45
50.0	1.77	2.32	2.97	3.75	4.68	5.78	7.08	7.66	8.59	9.44	10.35	12.35	14.65
55.0	1.62	2.14	2.76	3.50	4.37	5.41	6.64	7.19	8.08	8.88	9.75	11.65	13.85
60.0		1.96	2.54	3.23	4.06	5.04	6.20	6.71	7.56	8.32	9.14	10.95	13.10
65.0			2.32	2.97	3.74	4.65	5.74	6.23	7.03	7.75	8.53	10.25	12.25
70.0				2.70	3.41	4.26	5.28	5.74	6.49	7.16	7.90	9.54	
75.0				2.42	3.08	3.87	4.81	5.24	5.94	6.57	7.26		

50 Hz

ZH30K4E-TFD

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	25.0
20.0	1.04	1.08	1.10	1.14	1.16	1.18							
25.0	1.14	1.18	1.22	1.26	1.28	1.32	1.34						
30.0	1.24	1.28	1.33	1.38	1.42	1.45	1.48	1.50	1.51				
35.0	1.34	1.40	1.46	1.50	1.55	1.60	1.64	1.65	1.67	1.68	1.70		
40.0	1.45	1.52	1.58	1.64	1.70	1.75	1.80	1.82	1.84	1.86	1.88	1.92	
45.0	1.57	1.64	1.72	1.78	1.86	1.92	1.98	2.00	2.03	2.06	2.08	2.13	2.17
50.0	1.70	1.78	1.86	1.94	2.02	2.10	2.17	2.19	2.23	2.26	2.29	2.35	2.40
55.0	1.82	1.92	2.02	2.11	2.20	2.29	2.37	2.40	2.45	2.49	2.52	2.59	2.66
60.0		2.08	2.19	2.29	2.39	2.49	2.59	2.63	2.68	2.72	2.77	2.85	2.93
65.0			2.37	2.49	2.60	2.72	2.82	2.87	2.93	2.98	3.03	3.13	3.22
70.0				2.70	2.83	2.96	3.08	3.13	3.20	3.26	3.31	3.43	
75.0				2.93	3.07	3.21	3.35	3.41	3.49	3.55	3.62		

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	25.0
20.0	3.37	3.40	3.41	3.40	3.36	3.29							
25.0	3.42	3.47	3.51	3.53	3.53	3.50	3.43						
30.0	3.48	3.54	3.60	3.65	3.68	3.68	3.66	3.64	3.60				
35.0	3.54	3.61	3.69	3.75	3.81	3.85	3.87	3.86	3.85	3.83	3.80		
40.0	3.63	3.70	3.78	3.86	3.94	4.01	4.06	4.07	4.08	4.08	4.08	4.03	
45.0	3.74	3.81	3.89	3.98	4.08	4.17	4.25	4.27	4.31	4.33	4.34	4.34	4.30
50.0	3.88	3.94	4.03	4.13	4.23	4.34	4.44	4.48	4.53	4.57	4.60	4.64	4.65
55.0	4.07	4.12	4.20	4.30	4.41	4.53	4.65	4.70	4.76	4.81	4.86	4.94	4.99
60.0		4.35	4.41	4.51	4.62	4.75	4.88	4.93	5.01	5.08	5.14	5.25	5.34
65.0			4.68	4.76	4.87	5.00	5.14	5.20	5.29	5.36	5.43	5.57	5.70
70.0				5.07	5.17	5.30	5.44	5.51	5.60	5.68	5.76	5.92	
75.0				5.45	5.54	5.65	5.80	5.86	5.96	6.04	6.13		

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	25.0
20.0	16.15	20.10	24.70	30.20	36.50	43.90							
25.0	16.00	19.90	24.60	30.00	36.40	43.80	52.20						
30.0	15.80	19.75	24.40	29.90	36.30	43.60	52.00	55.70	61.60				
35.0	15.60	19.60	24.30	29.80	36.10	43.40	51.90	55.50	61.40	66.70	72.30		
40.0	15.40	19.40	24.10	29.60	35.90	43.30	51.70	55.30	61.20	66.50	72.10	84.20	
45.0	15.15	19.25	23.90	29.40	35.70	43.00	51.40	55.10	61.00	66.30	71.80	84.00	97.60
50.0	14.90	19.00	23.70	29.20	35.50	42.80	51.20	54.90	60.80	66.00	71.60	83.80	97.50
55.0	14.65	18.75	23.50	29.00	35.30	42.60	50.90	54.60	60.50	65.80	71.40	83.60	97.30
60.0		18.50	23.20	28.70	35.00	42.30	50.70	54.30	60.20	65.50	71.10	83.40	97.20
65.0			23.00	28.40	34.70	42.00	50.40	54.10	60.00	65.30	70.90	83.30	97.20
70.0				28.10	34.40	41.70	50.10	53.80	59.70	65.10	70.70	83.20	
75.0				27.80	34.10	41.40	49.80	53.60	59.60	64.90	70.70		

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	62
Sound Power (HT), dBA	73
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	1430
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**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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