



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								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
23.0	2.89	3.66	4.58	5.67					
25.0	2.83	3.59	4.50	5.57	6.82				
30.0	2.69	3.43	4.30	5.33	6.53	7.92	8.53		
35.0	2.55	3.25	4.08	5.06	6.21	7.55	8.13	9.08	
40.0	2.39	3.06	3.85	4.79	5.88	7.15	7.71	8.61	
45.0	2.23	2.86	3.61	4.49	5.53	6.73	7.27	8.12	
50.0	2.06	2.66	3.36	4.19	5.16	6.29	6.80	7.61	
55.0		2.44	3.09	3.87	4.78	5.84	6.31	7.07	
60.0			2.82	3.53	4.38	5.36	5.80	6.51	
65.0				3.19	3.96	4.87	5.27	5.93	

50 Hz

ZH19K4E-TFD

R407C Dew Point

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
23.0	1.06	1.10	1.14	1.18					
25.0	1.11	1.15	1.20	1.24	1.28				
30.0	1.23	1.27	1.32	1.36	1.42	1.46	1.48		
35.0	1.34	1.40	1.45	1.50	1.56	1.61	1.64	1.66	
40.0	1.48	1.54	1.60	1.65	1.71	1.77	1.80	1.83	
45.0	1.62	1.68	1.75	1.82	1.88	1.94	1.96	2.00	
50.0	1.78	1.85	1.92	1.99	2.06	2.13	2.15	2.20	
55.0		2.03	2.10	2.18	2.25	2.33	2.36	2.41	
60.0			2.31	2.39	2.47	2.55	2.58	2.63	
65.0				2.62	2.70	2.79	2.83	2.88	

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
23.0	2.70	2.72	2.76	2.82					
25.0	2.74	2.77	2.81	2.87	2.94				
30.0	2.86	2.89	2.93	2.99	3.05	3.13	3.16		
35.0	2.98	3.02	3.07	3.13	3.19	3.27	3.30	3.34	
40.0	3.12	3.17	3.23	3.29	3.36	3.43	3.46	3.51	
45.0	3.27	3.34	3.41	3.48	3.56	3.63	3.66	3.71	
50.0	3.43	3.52	3.60	3.69	3.78	3.87	3.90	3.95	
55.0		3.71	3.82	3.93	4.03	4.13	4.17	4.22	
60.0			4.06	4.19	4.31	4.42	4.47	4.53	
65.0				4.47	4.62	4.75	4.80	4.87	

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
23.0	15.90	19.80	24.40	29.70					
25.0	15.85	19.80	24.40	29.70	35.90				
30.0	15.75	19.70	24.30	29.70	35.80	42.90	45.90		
35.0	15.60	19.55	24.20	29.50	35.70	42.70	45.70	50.60	
40.0	15.45	19.40	24.00	29.30	35.40	42.40	45.40	50.30	
45.0	15.20	19.15	23.70	29.00	35.10	42.00	45.00	49.90	
50.0	14.95	18.85	23.40	28.60	34.60	41.50	44.50	49.30	
55.0		18.55	23.00	28.10	34.10	40.90	43.90	48.70	
60.0			22.50	27.60	33.40	40.20	43.10	47.90	
65.0				27.00	32.70	39.40	42.30	47.00	

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	7.31
Length/Width, mm	243/242
Height, mm	387
Net Weight, kg	25
Gross Weight, kg	29
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.48
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	60
Sound Power (HT), dBA	71
Sound Power with Sound Shell (HT), dBA	62
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	2.90
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
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	6
Locked Rotor Current, A	32
Winding Resistance, ohm	5.94
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