



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	1.63	2.10	2.68	3.37	4.20	5.17					
25.0	1.50	1.96	2.50	3.16	3.95	4.87					
30.0	1.40	1.82	2.35	2.97	3.71	4.59	5.61	6.06			
35.0	1.30	1.71	2.21	2.80	3.50	4.33	5.30	5.72	6.41		
40.0	1.22	1.60	2.07	2.63	3.30	4.09	5.00	5.41	6.06	6.65	7.28
45.0	1.12	1.50	1.94	2.48	3.11	3.85	4.72	5.10	5.72	6.28	6.88
50.0	1.03	1.39	1.82	2.32	2.92	3.62	4.44	4.80	5.39	5.92	6.48
55.0	0.93	1.28	1.68	2.16	2.72	3.39	4.16	4.50	5.06	5.56	6.10
60.0		1.15	1.54	1.99	2.52	3.15	3.88	4.20	4.73	5.20	5.70
65.0			1.38	1.80	2.31	2.90	3.58	3.89	4.38	4.83	5.31
70.0				1.60	2.07	2.63	3.27	3.56	4.03	4.45	4.90

50 Hz

ZH19K4E-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	0.72	0.80	0.88	0.98	1.10	1.25					
25.0	0.75	0.81	0.88	0.96	1.06	1.18					
30.0	0.80	0.85	0.91	0.97	1.06	1.16	1.28	1.34			
35.0	0.87	0.91	0.96	1.02	1.08	1.17	1.27	1.32	1.40		
40.0	0.94	0.99	1.03	1.08	1.14	1.22	1.31	1.35	1.42	1.48	1.55
45.0	1.03	1.08	1.12	1.18	1.23	1.30	1.38	1.42	1.48	1.53	1.60
50.0	1.12	1.17	1.23	1.28	1.34	1.40	1.48	1.52	1.58	1.62	1.68
55.0	1.20	1.27	1.34	1.40	1.46	1.54	1.62	1.64	1.70	1.75	1.80
60.0		1.37	1.46	1.53	1.60	1.68	1.76	1.80	1.86	1.91	1.96
65.0			1.57	1.66	1.76	1.85	1.94	1.98	2.04	2.09	2.15
70.0				1.80	1.92	2.02	2.13	2.17	2.24	2.30	2.36

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	2.49	2.61	2.76	2.94	3.17	3.46					
25.0	2.46	2.54	2.64	2.77	2.93	3.15					
30.0	2.47	2.53	2.59	2.68	2.79	2.94	3.15	3.24			
35.0	2.51	2.56	2.60	2.65	2.73	2.83	2.98	3.05	3.18		
40.0	2.57	2.61	2.65	2.68	2.73	2.80	2.91	2.96	3.05	3.15	3.26
45.0	2.63	2.69	2.72	2.75	2.78	2.83	2.91	2.94	3.01	3.09	3.17
50.0	2.69	2.76	2.81	2.85	2.88	2.91	2.97	3.00	3.05	3.11	3.17
55.0	2.72	2.82	2.90	2.95	2.99	3.03	3.08	3.10	3.15	3.19	3.25
60.0		2.86	2.98	3.06	3.12	3.17	3.23	3.25	3.29	3.33	3.38
65.0			3.02	3.15	3.25	3.32	3.40	3.42	3.47	3.51	3.56
70.0				3.21	3.35	3.47	3.57	3.61	3.67	3.72	3.77

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	9.97	12.60	15.75	19.45	23.80	28.80					
25.0	9.65	12.25	15.35	19.05	23.30	28.20					
30.0	9.40	12.00	15.10	18.70	22.90	27.80	33.30	35.70			
35.0	9.21	11.80	14.90	18.45	22.60	27.40	32.90	35.30	39.10		
40.0	9.05	11.65	14.75	18.30	22.40	27.20	32.60	34.90	38.70	42.00	45.50
45.0	8.89	11.55	14.60	18.15	22.30	27.00	32.30	34.60	38.40	41.70	45.20
50.0	8.69	11.40	14.50	18.05	22.10	26.80	32.10	34.40	38.10	41.40	44.90
55.0	8.38	11.15	14.30	17.90	22.00	26.60	31.90	34.20	37.90	41.20	44.60
60.0		10.80	14.05	17.65	21.70	26.40	31.70	34.00	37.70	40.90	44.40
65.0			13.60	17.30	21.40	26.10	31.40	33.70	37.40	40.70	44.10
70.0				16.70	20.90	25.70	31.10	33.40	37.10	40.40	43.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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 Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	-7 / 50 / 3 °C at 50 Hz
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	1430
Refrigerant's classification	A1

50 Hz

ZH19K4E-TFD

R134a

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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00