



Minimum Evaporating Temp. With:

- 20 K Suction Superheat — 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

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
10.0	2.09	2.58	3.16	3.84					
15.0	2.00	2.48	3.03	3.68	4.43				
20.0	1.92	2.37	2.90	3.52	4.24	5.06			
25.0	1.82	2.25	2.76	3.35	4.03	4.81	5.70		
30.0	1.72	2.13	2.61	3.17	3.81	4.55	5.39	5.75	6.33
35.0	1.61	2.00	2.45	2.98	3.58	4.28	5.06	5.41	5.96
40.0	1.50	1.86	2.29	2.78	3.34	3.99	4.73	5.05	5.57
45.0	1.38	1.72	2.11	2.57	3.09	3.69	4.38	4.68	5.16
50.0		1.58	1.93	2.35	2.83	3.38	4.01	4.29	4.73
55.0			1.74	2.12	2.55	3.06	3.63	3.89	4.29
60.0				1.88	2.27	2.72	3.24	3.47	3.84

50 Hz

ZS11KAE-TFD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	0.62	0.63	0.64	0.64					
15.0	0.67	0.69	0.71	0.71	0.71				
20.0	0.74	0.76	0.78	0.78	0.78	0.77			
25.0	0.80	0.84	0.86	0.87	0.87	0.86	0.84		
30.0	0.88	0.92	0.94	0.96	0.96	0.96	0.94	0.93	0.92
35.0	0.96	1.01	1.04	1.06	1.06	1.06	1.04	1.03	1.02
40.0	1.04	1.10	1.14	1.16	1.18	1.18	1.16	1.16	1.14
45.0	1.14	1.20	1.26	1.28	1.30	1.30	1.29	1.28	1.27
50.0		1.32	1.38	1.42	1.44	1.44	1.43	1.42	1.41
55.0			1.51	1.56	1.58	1.59	1.58	1.58	1.56
60.0				1.70	1.74	1.76	1.76	1.75	1.74

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
10.0	1.72	1.75	1.77	1.78					
15.0	1.82	1.85	1.87	1.88	1.89				
20.0	1.91	1.95	1.97	1.98	1.99	1.98			
25.0	2.00	2.04	2.07	2.09	2.09	2.08	2.06		
30.0	2.10	2.14	2.18	2.20	2.20	2.19	2.17	2.16	2.14
35.0	2.19	2.25	2.30	2.32	2.33	2.32	2.30	2.29	2.27
40.0	2.30	2.37	2.43	2.46	2.48	2.47	2.45	2.44	2.42
45.0	2.43	2.51	2.58	2.62	2.65	2.65	2.63	2.62	2.60
50.0		2.67	2.75	2.81	2.84	2.85	2.85	2.84	2.82
55.0			2.96	3.03	3.07	3.09	3.09	3.09	3.07
60.0				3.28	3.34	3.37	3.38	3.38	3.37

50 Hz

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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
10.0	11.75	14.60	17.95	22.00					
15.0	11.75	14.60	18.00	22.00	26.70				
20.0	11.70	14.60	18.00	22.00	26.70	32.20			
25.0	11.70	14.55	17.95	22.00	26.70	32.20	38.60		
30.0	11.60	14.45	17.85	21.90	26.60	32.10	38.60	41.50	46.10
35.0	11.50	14.35	17.75	21.80	26.50	32.00	38.50	41.30	46.10
40.0	11.40	14.25	17.60	21.60	26.30	31.80	38.30	41.20	45.90
45.0	11.25	14.05	17.40	21.40	26.00	31.60	38.10	41.00	45.80
50.0		13.85	17.20	21.10	25.80	31.30	37.80	40.80	45.60
55.0			16.90	20.80	25.40	31.00	37.60	40.60	45.50
60.0				20.50	25.20	30.70	37.50	40.60	45.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	4.39
Length/Width, mm	246/246
Height, mm	387
Net Weight, kg	22
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
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 (19)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
Sound Power with Sound Shell (MT), dBA	61
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Internal Free Volume, l	2.00
High Side PS gauge, bar	31.9
Low Side PS gauge, bar	21.6
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	3.3
Locked Rotor Current, A	27
Default Enclosure Class	IP 66

50 Hz

ZS11KAE-TFD

R404A Dew Point

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Crankcase Heater	40 W External
Discharge Temperature Protection	Discharge line thermostat
Enclosure Class	IP66 With Molded Plug
Rotalock valves	suction and discharge

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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09