



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
27.0	11.70	14.45	17.60	21.20	25.30	30.00	32.00	35.30	38.20
30.0	11.25	13.95	17.05	20.50	24.60	29.10	31.10	34.30	37.10
35.0	10.55	13.15	16.05	19.45	23.30	27.70	29.60	32.60	35.30
40.0	9.83	12.30	15.10	18.30	21.90	26.10	27.90	30.80	33.40
45.0		11.45	14.05	17.05	20.50	24.40	26.20	28.90	31.40
50.0			13.00	15.80	19.00	22.70	24.30	26.90	29.20
55.0				14.50	17.45	20.80	22.30	24.80	26.90
60.0					15.75	18.90	20.30	22.50	24.40
65.0						16.70	17.95	19.90	21.70

50 Hz

ZPD104KCE-TFD

R410A Dew Point

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	4.36	4.39	4.46	4.55	4.66	4.76	4.79	4.83	4.86
30.0	4.62	4.65	4.71	4.81	4.92	5.03	5.07	5.12	5.15
35.0	5.10	5.10	5.16	5.25	5.36	5.48	5.52	5.58	5.63
40.0	5.64	5.63	5.67	5.75	5.86	5.98	6.02	6.09	6.14
45.0		6.25	6.27	6.33	6.43	6.54	6.59	6.66	6.71
50.0			6.97	7.02	7.10	7.20	7.24	7.31	7.36
55.0				7.83	7.89	7.98	8.02	8.08	8.13
60.0					8.84	8.90	8.93	8.98	9.03
65.0						9.99	10.00	10.05	10.10

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
27.0	9.93	9.95	10.02	10.14	10.27	10.42	10.47	10.56	10.62
30.0	10.26	10.27	10.35	10.46	10.60	10.74	10.79	10.87	10.93
35.0	10.83	10.86	10.94	11.05	11.19	11.33	11.38	11.46	11.51
40.0	11.47	11.52	11.61	11.74	11.88	12.02	12.08	12.15	12.21
45.0		12.27	12.38	12.52	12.68	12.83	12.89	12.97	13.02
50.0			13.25	13.42	13.59	13.76	13.83	13.91	13.97
55.0				14.43	14.63	14.82	14.90	14.99	15.06
60.0					15.81	16.03	16.11	16.22	16.30
65.0						17.38	17.47	17.61	17.70

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
27.0	64.80	79.10	95.20	113.50	134.00	157.50	167.50	183.50	198.00
30.0	64.20	78.60	94.80	113.00	134.00	157.00	167.50	183.50	198.00
35.0	63.40	77.80	94.10	112.50	133.00	156.50	167.00	183.00	197.50
40.0	62.50	77.00	93.20	111.50	132.50	155.50	166.00	182.00	196.50
45.0		76.10	92.20	110.50	131.00	154.50	164.50	181.00	195.50
50.0			91.20	109.50	130.00	153.00	163.00	179.50	193.50
55.0				108.00	128.50	151.50	161.50	177.50	192.00
60.0					127.00	150.00	160.00	176.00	190.00
65.0						148.50	158.50	174.50	189.00

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

Displacement @ 50 Hz, m <sup>3</sup> /h	16.8
Length/Width, mm	269/262
Height, mm	617
Net Weight, kg	48.8
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	1 1/8
Stub Discharge, inch	7/8
Oil Quantity, l	2.51
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	63
Sound Power (HT), dBA	74
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	7.30
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	18.2
Locked Rotor Current, A	128
Winding Resistance, ohm	1.38
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

### **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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04