



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	15.30	19.00	23.20	27.90	33.10	39.00	41.50	45.50	49.00
30.0	14.55	18.20	22.30	27.00	32.20	38.00	40.50	44.40	47.90
35.0	13.30	16.90	20.90	25.40	30.50	36.20	38.60	42.50	45.90
40.0	12.05	15.50	19.35	23.70	28.60	34.20	36.50	40.30	43.60
45.0		14.05	17.70	21.90	26.60	31.90	34.20	37.80	41.10
50.0			16.00	19.95	24.40	29.40	31.60	35.10	38.20
55.0				17.85	22.00	26.80	28.80	32.10	35.00
60.0					19.45	23.80	25.80	28.80	31.50
65.0						20.60	22.30	25.10	27.60

50 Hz

ZPD137KCE-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	5.44	5.43	5.42	5.43	5.47	5.56	5.61	5.72	5.83
30.0	5.88	5.87	5.86	5.85	5.88	5.94	5.99	6.08	6.17
35.0	6.65	6.64	6.62	6.60	6.59	6.63	6.66	6.72	6.79
40.0	7.51	7.51	7.47	7.44	7.41	7.41	7.43	7.46	7.51
45.0		8.49	8.45	8.39	8.34	8.31	8.31	8.33	8.35
50.0			9.56	9.49	9.42	9.36	9.34	9.33	9.33
55.0				10.75	10.65	10.55	10.55	10.50	10.50
60.0					12.05	11.95	11.90	11.85	11.80
65.0						13.55	13.50	13.40	13.35

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	11.66	11.67	11.67	11.67	11.71	11.78	11.83	11.91	12.00
30.0	12.18	12.18	12.17	12.17	12.19	12.25	12.29	12.36	12.43
35.0	13.12	13.11	13.09	13.07	13.07	13.10	13.12	13.18	13.23
40.0	14.22	14.20	14.17	14.13	14.10	14.10	14.11	14.14	14.18
45.0		15.50	15.44	15.38	15.32	15.29	15.28	15.29	15.30
50.0			16.95	16.86	16.77	16.70	16.67	16.65	16.65
55.0				18.61	18.48	18.37	18.33	18.27	18.24
60.0					20.50	20.33	20.27	20.19	20.13
65.0						22.64	22.55	22.44	22.35

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	84.90	104.00	125.50	149.00	175.50	204.00	217.00	237.00	254.00
30.0	83.20	102.50	124.50	148.50	175.50	205.00	218.00	238.00	255.00
35.0	80.10	100.00	122.50	147.00	174.50	205.00	218.00	238.00	256.00
40.0	76.70	97.00	119.50	145.00	172.50	204.00	217.00	238.00	257.00
45.0		93.40	116.50	141.50	170.00	202.00	215.00	237.00	255.00
50.0			112.50	138.00	166.50	198.50	212.00	234.00	253.00
55.0				133.50	162.00	194.50	208.00	230.00	250.00
60.0					156.50	189.00	203.00	226.00	245.00
65.0						183.00	197.50	220.00	240.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	22.1
Length/Width, mm	293/285
Height, mm	533
Net Weight, kg	61.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
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	13.3
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	25
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Enclosure Class	IP21
Mounting Grommets	Hard Mounts for Paralleling
Oil Charge	
Oil Service Valve	Schraeder Valve
Digital Control	Integrated Solenoid Valve
Check Valve	Discharge Low Leak Check Valve

**ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Discharge Temp Protection	
Mounting Grommets	Rubber Grommet For Single
Digital Control	Digital Valve Coil 24V
Digital Control	Digital Valve Coil 230V
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Sound Attenuation	Parallel Operation
	Sound Shell (12dBA)

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