



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	13.70	17.00	20.70	24.90	29.60	34.80	37.10	40.70	43.80
30.0	13.00	16.30	19.95	24.10	28.80	34.00	36.20	39.70	42.80
35.0	11.90	15.10	18.70	22.70	27.30	32.30	34.50	38.00	41.10
40.0	10.80	13.85	17.30	21.20	25.60	30.50	32.70	36.00	39.00
45.0		12.55	15.85	19.55	23.80	28.50	30.60	33.80	36.70
50.0			14.30	17.80	21.80	26.30	28.30	31.40	34.10
55.0				15.95	19.70	23.90	25.80	28.70	31.30
60.0					17.40	21.30	23.00	25.80	28.20
65.0						18.40	19.95	22.40	24.70

50 Hz

ZPD120KCE-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	4.85	4.84	4.84	4.84	4.88	4.96	5.00	5.10	5.19
30.0	5.24	5.23	5.22	5.22	5.24	5.30	5.34	5.42	5.50
35.0	5.93	5.92	5.90	5.88	5.88	5.91	5.94	5.99	6.06
40.0	6.70	6.69	6.66	6.63	6.61	6.61	6.62	6.65	6.70
45.0		7.57	7.53	7.48	7.44	7.41	7.41	7.42	7.45
50.0			8.52	8.46	8.39	8.34	8.33	8.32	8.32
55.0				9.58	9.50	9.42	9.39	9.36	9.34
60.0					10.75	10.65	10.60	10.55	10.50
65.0						12.10	12.05	11.95	11.90

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	10.64	10.64	10.64	10.65	10.68	10.74	10.78	10.86	10.94
30.0	11.10	11.10	11.10	11.10	11.12	11.17	11.20	11.27	11.34
35.0	11.96	11.95	11.93	11.92	11.92	11.95	11.97	12.02	12.07
40.0	12.97	12.95	12.92	12.88	12.86	12.86	12.87	12.89	12.93
45.0		14.13	14.08	14.02	13.97	13.94	13.94	13.94	13.96
50.0			15.46	15.38	15.29	15.23	15.21	15.19	15.18
55.0				16.97	16.85	16.75	16.71	16.66	16.64
60.0					18.69	18.54	18.49	18.41	18.36
65.0						20.64	20.57	20.46	20.38

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	75.90	93.10	112.00	133.50	157.00	183.00	194.00	211.00	227.00
30.0	74.30	91.80	111.50	133.00	156.50	183.00	194.50	212.00	228.00
35.0	71.60	89.50	109.50	131.50	156.00	183.00	195.00	213.00	229.00
40.0	68.50	86.70	107.00	129.50	154.50	182.00	194.00	213.00	229.00
45.0		83.50	104.00	126.50	152.00	180.50	192.50	212.00	228.00
50.0			100.50	123.50	149.00	177.50	190.00	209.00	226.00
55.0				119.00	145.00	174.00	186.50	206.00	223.00
60.0					140.00	169.00	181.50	202.00	219.00
65.0						163.50	176.50	196.50	215.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	19.8
Length/Width, mm	293/285
Height, mm	533
Net Weight, kg	61.7
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	22
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

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