



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	15.0
25.0	56.30	68.70	83.10	99.90	119.00	141.50	151.00	166.50		
30.0	53.20	65.10	79.00	95.10	113.50	135.00	144.00	159.00	172.50	186.50
35.0	49.90	61.40	74.60	90.00	108.00	128.00	137.00	151.00	164.00	177.50
40.0	46.60	57.40	70.10	84.70	101.50	121.00	129.50	143.00	155.00	168.00
45.0		53.30	65.30	79.00	95.00	113.00	121.00	134.00	145.50	158.00
50.0			60.20	73.10	88.00	105.00	112.50	124.50	135.50	147.00
55.0				66.70	80.50	96.50	103.50	115.00	125.00	135.50
60.0					72.50	87.10	93.60	104.00	113.50	123.00
65.0					63.50	76.70	82.50	91.90	100.50	109.50

50 Hz

ZP485KCE-TWD

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	15.0
25.0	17.90	18.30	18.80	19.40	20.20	21.20	21.60	22.40		
30.0	19.85	20.30	20.70	21.30	21.90	22.80	23.20	23.90	24.50	25.20
35.0	22.00	22.40	22.90	23.30	24.00	24.70	25.10	25.60	26.20	26.80
40.0	24.40	24.80	25.30	25.70	26.30	26.90	27.30	27.80	28.30	28.80
45.0		27.50	28.00	28.40	28.90	29.50	29.80	30.30	30.70	31.20
50.0			31.00	31.50	31.90	32.50	32.70	33.10	33.50	34.00
55.0				34.90	35.30	35.80	36.10	36.40	36.80	37.20
60.0					39.10	39.60	39.80	40.20	40.50	40.80
65.0					43.40	43.90	44.10	44.40	44.70	45.00

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	15.0
25.0	35.63	36.12	36.71	37.45	38.39	39.61	40.19	41.16		
30.0	38.06	38.57	39.14	39.83	40.69	41.79	42.31	43.19	44.02	44.94
35.0	40.82	41.38	41.95	42.60	43.39	44.39	44.86	45.65	46.40	47.24
40.0	43.98	44.59	45.18	45.81	46.56	47.47	47.89	48.61	49.29	50.04
45.0		48.27	48.89	49.53	50.24	51.08	51.47	52.12	52.73	53.41
50.0			53.15	53.80	54.49	55.29	55.64	56.24	56.79	57.41
55.0				58.69	59.38	60.14	60.48	61.02	61.53	62.10
60.0					64.96	65.70	66.02	66.54	67.00	67.52
65.0					71.29	72.03	72.34	72.83	73.27	73.75

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	15.0
25.0	307.00	370.00	442.00	525.00	621.00	729.00	776.00	851.00		
30.0	304.00	367.00	440.00	524.00	619.00	728.00	775.00	850.00	917.00	988.00
35.0	300.00	364.00	437.00	521.00	616.00	725.00	772.00	848.00	915.00	986.00
40.0	296.00	360.00	433.00	517.00	612.00	721.00	768.00	844.00	911.00	983.00
45.0		355.00	428.00	512.00	607.00	716.00	763.00	839.00	906.00	977.00
50.0			422.00	506.00	601.00	709.00	756.00	832.00	899.00	971.00
55.0				498.00	593.00	701.00	748.00	823.00	891.00	963.00
60.0					584.00	691.00	738.00	814.00	882.00	954.00
65.0					574.00	682.00	729.00	805.00	873.00	945.00

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

Displacement @ 50 Hz, m <sup>3</sup> /h	77.3
Length/Width, mm	368/345
Height, mm	756
Net Weight, kg	190
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 3/8
Oil Quantity, l	6.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	266.7 x 266.7 (22.6)
Sound Pressure @ 1m (HT), dBA	78
Sound Power (HT), dBA	89
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Internal Free Volume, l	33.2
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	82.6
Locked Rotor Current, A	408
Winding Resistance, ohm	0.26
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermistor
Discharge Temperature Protection	PTC in Scroll Discharge Port
Enclosure Class	IP 54
Mounting Grommets	Standard
Mounting Grommets	Rubber Grommet For Single
Oil Charge	
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

50 Hz

ZP485KCE-TWD

R410A Dew Point

### **ACCESSORIES OPTIONAL**

Crankcase Heater	102 W External
Mounting Grommets	Rubber Grommet For Parallel Operation
Adapter Kit	R1"3/4 - B1"3/8 For TPTL for Parallel Operation

### **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>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	460 V / 3~ / 60 Hz	460		Y	1.04