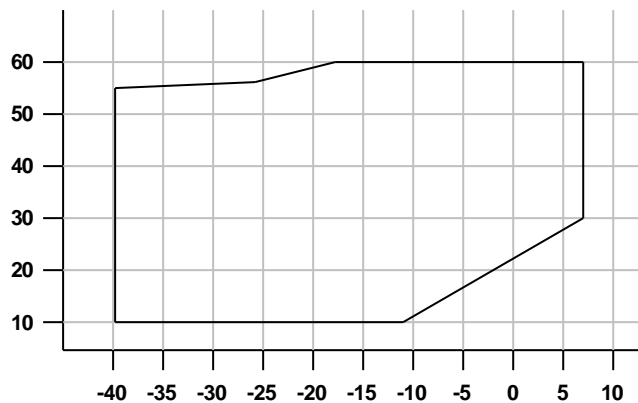


50Hz

ZF24K4E-TWD

R404A



Minimum evaporating temp. with:

———— 25°C Suction Gas Return + Liquid Injection

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	5.38	6.85	8.60	10.70	13.15	16.00					
20	4.96	6.33	7.94	9.82	12.00	14.60	17.60	21.10			
30	4.53	5.79	7.24	8.91	10.85	13.10	15.75	18.80	22.30	26.30	28.10
35	4.28	5.49	6.86	8.42	10.25	12.35	14.80	17.65	20.90	24.70	26.30
40	4.01	5.16	6.44	7.90	9.58	11.55	13.80	16.40	19.45	23.00	24.50
45	3.69	4.78	5.98	7.33	8.87	10.65	12.75	15.15	17.95	21.20	22.60
50	3.32	4.36	5.47	6.71	8.12	9.74	11.65	13.85	16.40	19.35	20.70
55	2.90	3.87	4.90	6.02	7.29	8.76	10.45	12.45	14.75	17.50	18.65
60						7.70	9.21	11.00	13.05	15.50	16.60
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	2.64	2.75	2.89	3.06	3.26	3.51					
20	3.12	3.25	3.40	3.56	3.75	3.96	4.22	4.53			
30	3.68	3.85	4.02	4.19	4.38	4.59	4.82	5.09	5.39	5.75	5.91
35	3.98	4.18	4.37	4.56	4.75	4.96	5.18	5.44	5.73	6.06	6.21
40	4.29	4.52	4.74	4.95	5.15	5.36	5.59	5.84	6.11	6.43	6.56
45	4.62	4.88	5.13	5.36	5.58	5.80	6.03	6.28	6.55	6.84	6.97
50	4.95	5.25	5.53	5.79	6.04	6.27	6.51	6.76	7.03	7.31	7.44
55	5.28	5.63	5.95	6.25	6.52	6.77	7.03	7.28	7.55	7.83	7.95
60						7.30	7.57	7.84	8.11	8.39	8.51
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	8.76	8.82	8.91	9.04	9.21	9.44					
20	9.12	9.21	9.32	9.46	9.63	9.84	10.10	10.41			
30	9.59	9.74	9.89	10.06	10.24	10.46	10.71	11.00	11.34	11.74	11.92
35	9.86	10.04	10.23	10.42	10.62	10.84	11.10	11.39	11.72	12.11	12.28
40	10.16	10.38	10.60	10.82	11.04	11.29	11.55	11.84	12.18	12.55	12.72
45	10.48	10.75	11.01	11.26	11.52	11.78	12.06	12.36	12.70	13.07	13.23
50	10.82	11.15	11.45	11.74	12.03	12.32	12.62	12.94	13.28	13.66	13.82
55	11.18	11.57	11.92	12.26	12.59	12.91	13.24	13.58	13.94	14.32	14.48
60						13.55	13.91	14.28	14.65	15.05	15.22
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	30.10	38.40	48.40	60.30	74.60	91.50					
20	30.20	38.70	48.60	60.40	74.40	91.00	110.50	133.50			
30	30.40	39.00	48.90	60.50	74.20	90.50	109.50	132.00	158.00	189.00	203.00
35	30.30	39.00	49.00	60.50	73.90	90.00	108.50	131.00	157.00	188.00	202.00
40	30.10	38.90	48.80	60.20	73.50	89.00	108.00	129.50	156.00	187.00	201.00
45	29.60	38.60	48.50	59.80	72.90	88.50	106.50	128.50	154.00	185.00	199.00
50	28.70	37.90	47.80	59.00	71.90	87.00	105.00	126.50	153.00	183.00	198.00
55	27.30	36.60	46.60	57.70	70.50	85.50	103.50	124.50	151.00	182.00	196.00
60						83.50	101.00	122.50	148.50	180.00	195.00

**Copeland Scroll - Compressor - Refrigeration - Standard**
**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, cu.m/h	20.9
Length/Width, mm	368/316
Height, mm	542
Net Weight, kg	100
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	4.1
Base mounting (hole dia), mm	220 x 220 (8.5)
Sound Pressure @ 1m, dBA	72
Sound Power, dBA	83
Sound Power with Sound Shell, dBA	73
PED Category	2
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Internal Free Volume, l	19.8

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

Maximum Operating Current, A	16.1
Locked Rotor Current, A	99
Winding Resistance, ohm	1.4
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70W External
Liquid Injection	Capillary Tube
Mounting Grommets	Hard Mounts for Paralleling
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

**MOTOR OPTIONS**

<b>Power Supply</b>	<b>Nominal Voltage</b>	<b>Motor Code</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
380-420 V/3~/50H	400	TWD		Y	1.00
200 V/3~/50Hz	200	TWC		Y	2.09
500 V/3~/50Hz	500	TWE		Y	0.80
220-240 V/3~/50H	220	TWR		Y	1.80
380 V/3~/60Hz	380	TW7		Y	1.26
460 V/3~/60Hz	460	TWD		Y	1.00
575 V/3~/60Hz	575	TWE		Y	0.80
208-230 V/3~/60H	230	TWC		Y	2.09