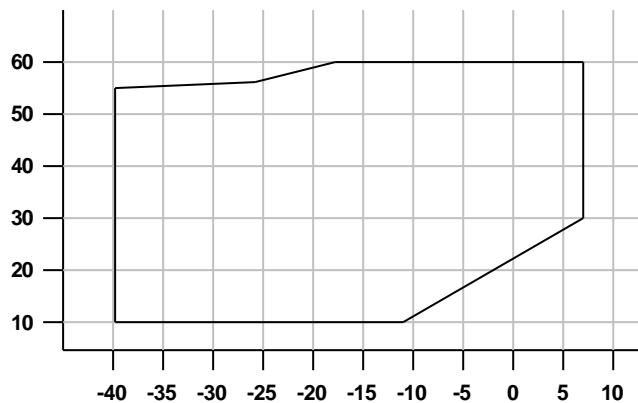


50Hz

ZF33K4E-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	7.71	9.70	12.10	15.00	18.45	22.40					
20	7.13	8.98	11.20	13.85	16.95	20.60	24.80	29.60			
30	6.41	8.10	10.10	12.45	15.20	18.45	22.20	26.40	31.30	36.90	39.30
35	6.00	7.61	9.50	11.70	14.30	17.30	20.80	24.80	29.30	34.60	36.80
40	5.57	7.09	8.85	10.90	13.30	16.10	19.30	23.00	27.30	32.10	34.30
45	5.13	6.55	8.18	10.05	12.25	14.80	17.80	21.20	25.20	29.70	31.60
50	4.67	5.99	7.48	9.20	11.20	13.55	16.25	19.35	23.00	27.10	29.00
55	4.21	5.41	6.76	8.30	10.10	12.20	14.65	17.45	20.70	24.50	26.20
60						10.80	13.00	15.50	18.45	21.90	23.40
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	3.47	3.66	3.86	4.08	4.32	4.58					
20	4.02	4.26	4.50	4.75	5.01	5.28	5.57	5.88			
30	4.68	4.98	5.27	5.56	5.85	6.14	6.44	6.75	7.08	7.43	7.57
35	5.06	5.39	5.71	6.02	6.33	6.63	6.94	7.26	7.59	7.93	8.07
40	5.47	5.83	6.18	6.52	6.85	7.17	7.50	7.82	8.15	8.49	8.63
45	5.91	6.31	6.70	7.06	7.42	7.76	8.10	8.43	8.77	9.11	9.24
50	6.39	6.83	7.25	7.65	8.03	8.39	8.75	9.09	9.44	9.78	9.92
55	6.90	7.39	7.85	8.28	8.69	9.08	9.45	9.81	10.15	10.50	10.65
60						9.81	10.20	10.60	10.95	11.30	11.45
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	10.31	10.46	10.65	10.87	11.13	11.41					
20	10.76	10.98	11.22	11.48	11.77	12.08	12.41	12.76			
30	11.37	11.66	11.97	12.30	12.64	12.99	13.36	13.73	14.12	14.51	14.67
35	11.74	12.08	12.43	12.80	13.17	13.55	13.94	14.34	14.74	15.14	15.30
40	12.16	12.55	12.95	13.36	13.77	14.18	14.60	15.02	15.44	15.87	16.03
45	12.64	13.09	13.53	13.99	14.44	14.89	15.35	15.80	16.24	16.68	16.86
50	13.18	13.68	14.19	14.69	15.19	15.68	16.18	16.66	17.14	17.60	17.79
55	13.78	14.34	14.91	15.47	16.02	16.56	17.10	17.62	18.13	18.63	18.82
60						17.53	18.11	18.68	19.23	19.76	19.97
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	43.10	54.30	68.10	85.00	104.50	128.00					
20	43.40	54.80	68.70	85.00	105.00	128.00	155.00	187.00			
30	43.00	54.50	68.30	84.50	104.00	127.00	154.00	185.00	222.00	265.00	284.00
35	42.50	54.10	67.80	84.00	103.00	126.00	153.00	184.00	221.00	264.00	283.00
40	41.90	53.50	67.10	83.00	102.00	124.50	151.00	182.00	219.00	262.00	281.00
45	41.20	52.80	66.30	82.00	100.50	123.00	149.00	180.00	216.00	259.00	279.00
50	40.40	52.00	65.30	81.00	99.00	121.00	146.50	177.00	214.00	257.00	277.00
55	39.60	51.20	64.30	79.50	97.50	119.00	144.50	175.00	211.00	255.00	275.00
60						117.00	142.50	173.00	210.00	254.00	275.00

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

Displacement @ 50 Hz, cu.m/h	28.8
Length/Width, mm	368/319
Height, mm	525
Net Weight, kg	93
Gross 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	22.3
Locked Rotor Current, A	127
Winding Resistance, ohm	1
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**

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
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