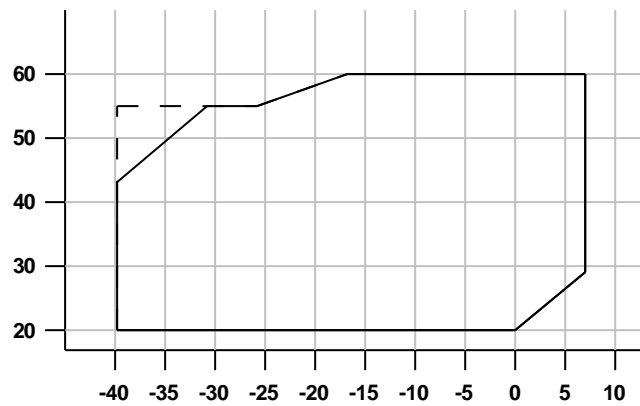


50Hz

ZF33KVE-TWD EVI

R404A



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 0°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling included

Cond °C	Capacity kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	8.74	10.80	13.20	16.00	19.15	22.80	26.80	31.30	36.40		
25	8.49	10.55	12.90	15.65	18.75	22.30	26.20	30.70	35.60		
30	8.29	10.30	12.60	15.25	18.25	21.70	25.60	29.90	34.70	40.10	42.40
35	8.13	10.05	12.30	14.85	17.75	21.10	24.80	29.00	33.70	38.90	41.20
40	8.02	9.86	12.00	14.45	17.25	20.40	24.10	28.10	32.60	37.70	39.80
45		9.71	11.70	14.05	16.75	19.75	23.20	27.10	31.50	36.30	38.40
50			11.50	13.65	16.20	19.05	22.40	26.10	30.20	34.90	36.90
55			11.30	13.30	15.65	18.35	21.40	24.90	28.90	33.30	35.20
60						17.60	20.50	23.80	27.50	31.70	33.50
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	4.46	4.72	4.96	5.20	5.42	5.62	5.82	6.00	6.17		
25	4.95	5.22	5.48	5.73	5.97	6.20	6.43	6.64	6.85		
30	5.46	5.73	6.00	6.26	6.51	6.77	7.02	7.26	7.50	7.74	7.84
35	6.01	6.28	6.55	6.82	7.09	7.36	7.62	7.89	8.16	8.43	8.54
40	6.67	6.93	7.19	7.46	7.73	8.01	8.29	8.58	8.87	9.16	9.28
45		7.70	7.95	8.22	8.49	8.77	9.06	9.35	9.66	9.98	10.10
50			8.88	9.14	9.40	9.68	9.97	10.25	10.60	10.90	11.05
55			10.00	10.25	10.50	10.80	11.05	11.35	11.70	12.00	12.15
60				10.25	10.50	10.80	11.05	11.35	11.70	12.00	12.15
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	11.13	11.42	11.67	11.92	12.15	12.39	12.64	12.91	13.20		
25	11.60	11.90	12.19	12.46	12.73	13.00	13.28	13.59	13.92		
30	12.13	12.45	12.76	13.06	13.35	13.65	13.97	14.30	14.67	15.07	15.25
35	12.77	13.12	13.44	13.76	14.08	14.40	14.74	15.11	15.51	15.94	16.13
40	13.59	13.94	14.29	14.62	14.96	15.30	15.66	16.05	16.47	16.94	17.14
45		14.99	15.34	15.68	16.03	16.39	16.77	17.18	17.62	18.11	18.32
50			16.65	17.00	17.36	17.73	18.12	18.55	19.01	19.52	19.73
55			18.27	18.62	18.99	19.37	19.77	20.20	20.68	21.20	21.42
60						21.35	21.75	22.20	22.68	23.21	23.44
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
20	40.70	51.70	65.10	81.50	101.00	125.00	154.00	190.00	234.00		
25	39.60	50.40	63.50	79.50	98.50	122.00	149.50	183.00	224.00		
30	38.80	49.50	62.40	78.00	96.50	119.00	146.00	178.00	216.00	262.00	283.00
35	38.40	48.90	61.60	77.00	95.00	117.00	143.00	174.00	210.00	253.00	272.00
40	38.40	48.70	61.10	76.00	94.00	115.00	140.50	170.00	204.00	245.00	262.00
45		48.70	60.90	75.50	93.00	113.50	138.00	166.00	199.00	237.00	253.00
50			60.80	74.90	92.00	112.00	135.00	162.00	193.00	229.00	244.00
55			60.80	74.40	90.50	110.00	132.50	158.00	187.00	220.00	234.00
60						107.50	129.00	153.00	180.00	211.00	224.00

Copeland Scroll - Compressor - Refrigeration - Vapour injection
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
Stub Injection, inch	5/8
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	21.4
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	Demand Cooling
Mounting Grommets	Hard Mounts for Paralleling
Sound Attenuation	Sound Shell (10dBA)

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
208-230 V/3~/60H	230	TWC		Y	2.09
575 V/3~/60Hz	575	TWE		Y	0.80
380 V/3~/60Hz	380	TW7		Y	1.26
460 V/3~/60Hz	460	TWD		Y	1.00