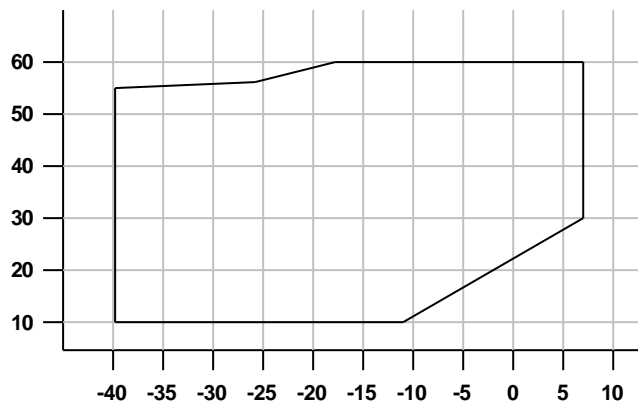


50Hz

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
Oil Control System	ALCO Trax-Oil OM3
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
220-240 V/3~/50H	220	TWR		Y	1,80
380 V/3~/60Hz	380	TW7		Y	1,26
208-230 V/3~/60H	230	TWC		Y	2,09
575 V/3~/60Hz	575	TWE		Y	0,80
460 V/3~/60Hz	460	TWD		Y	1,00