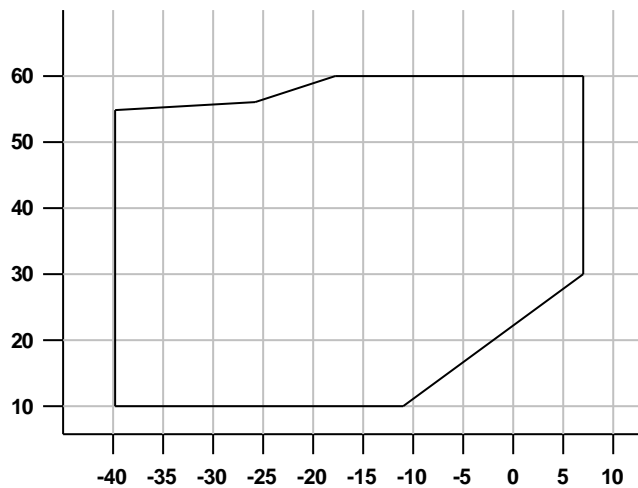


50Hz

ZF48K4E-TWD

R404A Dew Point



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	11,75	14,60	18,20	22,50	27,50	33,50	36,90	44,00	46,50	54,50	57,90	
20	10,70	13,45	16,75	20,70	25,40	30,70	33,20	39,40	43,70	51,10	54,40	
30	9,59	12,10	15,10	18,65	22,80	27,60	28,90	34,40	40,60	47,60	50,60	
35	8,99	11,35	14,15	17,50	21,40	25,90	31,10	37,00	43,70	51,10	54,40	
40	8,38	10,60	13,20	16,30	19,95	24,10	28,90	34,40	40,60	47,60	50,60	
45	7,75	9,80	12,20	15,05	18,40	22,20	26,70	31,70	37,50	43,90	46,70	
50	7,12	8,99	11,20	13,75	16,80	20,30	24,30	28,90	34,20	40,10	42,70	
55	6,49	8,16	10,10	12,45	15,10	18,25	21,90	26,00	30,80	36,20	38,60	
60						16,15	19,35	23,10	27,30	32,10	34,30	
	Power Input kW											
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	
10	5,55	5,80	6,10	6,47	6,91	7,42	9,00	9,59	11,50	12,15	12,45	
20	6,61	6,89	7,22	7,58	7,99	8,46	10,35	10,90	12,30	12,95	13,20	
30	7,83	8,19	8,56	8,96	9,39	9,85	11,15	11,70	13,00	13,80	14,05	
35	8,51	8,92	9,33	9,75	10,20	10,65	12,10	12,65	14,20	14,80	15,05	
40	9,24	9,70	10,15	10,60	11,10	11,60	13,10	13,65	15,35	15,95	16,20	
45	10,00	10,55	11,05	11,55	12,05	12,60	14,25	14,80	16,65	17,25	17,45	
50	10,85	11,45	12,00	12,60	13,15	13,70	15,45	16,05	18,00	18,65	18,85	
55	11,70	12,40	13,05	13,70	14,30	14,90	16,80	17,40	18,00	18,65	18,85	
60						16,15	16,80	17,40	18,00	18,65	18,85	
	Current 400V, A											
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	
10	14,51	14,69	14,95	15,30	15,73	16,26	17,99	18,69	21,01	21,84	22,19	
20	15,43	15,68	16,00	16,39	16,85	17,38	19,56	20,25	22,00	22,82	23,17	
30	16,62	16,99	17,40	17,86	18,37	18,94	20,55	21,25	23,16	23,97	24,31	
35	17,35	17,78	18,25	18,75	19,30	19,90	21,67	22,39	24,47	25,30	25,64	
40	18,17	18,68	19,21	19,77	20,36	21,00	22,95	23,69	25,97	26,80	27,15	
45	19,10	19,69	20,29	20,91	21,56	22,24	24,38	25,16	27,64	28,50	28,85	
50	20,14	20,82	21,50	22,19	22,90	23,63	25,99	26,80	29,51	30,40	30,76	
55	21,31	22,08	22,85	23,62	24,40	25,19	27,77	28,63	29,51	30,40	30,76	
60						26,91	27,77	28,63	29,51	30,40	30,76	
	Mass Flow g/s											
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	
10	65,30	81,50	102,00	126,50	156,00	190,00	231,00	277,00	329,00	390,00	418,00	
20	65,00	81,50	102,00	127,00	156,00	191,00	229,00	275,00	329,00	390,00	418,00	
30	64,10	81,00	101,50	126,00	155,00	189,00	227,00	273,00	327,00	388,00	416,00	
35	63,40	80,50	100,50	125,00	154,00	188,00	225,00	271,00	324,00	385,00	413,00	
40	62,70	79,50	100,00	124,00	152,00	186,00	222,00	267,00	320,00	382,00	410,00	
45	62,00	78,50	98,50	122,50	150,00	183,00	219,00	264,00	316,00	378,00	406,00	
50	61,30	77,50	97,00	120,50	148,00	180,00	215,00	260,00	312,00	375,00	403,00	
55	60,80	77,00	96,00	118,50	145,50	177,00	211,00	256,00	309,00	372,00	400,00	
60						174,00	211,00	256,00	309,00	372,00	400,00	

Copeland Scroll - Compressor - Refrigeration - LT Liquid Injection
COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	1
Displacement @ 50 Hz, cu.m/h	42.8
Length/Width, mm	324/294
Height, mm	579
Net Weight, kg	112
Gross Weight, kg	119
Rotalock Suction, inch	2 1/4
Rotalock Discharge, inch	1 3/4
Oil Quantity, l	4.14
Base mounting (hole dia), mm	220 x 220 (8.5)
Sound Pressure @ 1m (LT), dBA	72
Sound Power (LT), dBA	83
Sound Power with Sound Shell (LT), dBA	73
PED Category	2
Internal Free Volume, l	21.2
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

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

Maximum Operating Current, A	28.7
Locked Rotor Current, A	198
Winding Resistance, ohm	0.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Liquid Injection	Capillary Tube
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10 dBA)
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	230	TWR		Y	1,73
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