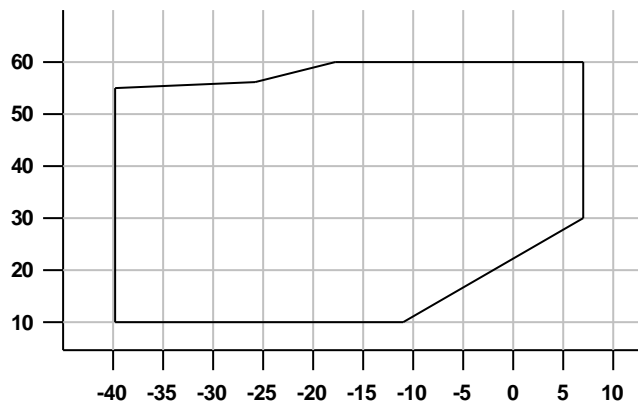


50Hz

ZF13K4E-TFD

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	3,04	3,88	4,87	6,01	7,32	8,81					
20	2,73	3,52	4,44	5,50	6,72	8,11	9,68	11,45			
30	2,45	3,15	3,98	4,93	6,03	7,30	8,74	10,35	12,20	14,25	15,10
35	2,32	2,97	3,73	4,63	5,66	6,85	8,21	9,76	11,50	13,45	14,30
40	2,19	2,78	3,48	4,31	5,27	6,38	7,66	9,11	10,75	12,60	13,40
45	2,06	2,59	3,22	3,97	4,85	5,88	7,07	8,42	9,97	11,70	12,45
50	1,94	2,40	2,95	3,62	4,42	5,35	6,44	7,70	9,13	10,75	11,50
55	1,82	2,20	2,68	3,26	3,96	4,79	5,78	6,93	8,25	9,77	10,45
60						4,21	5,08	6,11	7,32	8,71	9,32
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	1,32	1,37	1,44	1,53	1,65	1,78					
20	1,56	1,61	1,68	1,77	1,88	2,00	2,15	2,31			
30	1,87	1,93	2,00	2,08	2,19	2,30	2,44	2,59	2,76	2,95	3,03
35	2,06	2,12	2,19	2,28	2,37	2,49	2,62	2,76	2,93	3,11	3,19
40	2,27	2,33	2,41	2,49	2,59	2,70	2,83	2,97	3,13	3,30	3,37
45	2,51	2,58	2,65	2,74	2,84	2,95	3,07	3,21	3,36	3,52	3,60
50	2,78	2,85	2,93	3,02	3,12	3,23	3,35	3,48	3,62	3,78	3,85
55	3,08	3,16	3,24	3,33	3,43	3,54	3,66	3,79	3,93	4,08	4,15
60						3,90	4,01	4,14	4,28	4,42	4,49
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	4,15	4,19	4,24	4,32	4,41	4,52					
20	4,32	4,37	4,43	4,51	4,61	4,73	4,87	5,03			
30	4,58	4,64	4,72	4,81	4,91	5,04	5,18	5,34	5,53	5,73	5,82
35	4,76	4,83	4,91	5,00	5,11	5,24	5,38	5,55	5,73	5,94	6,03
40	4,98	5,05	5,14	5,24	5,35	5,48	5,63	5,79	5,98	6,19	6,28
45	5,25	5,32	5,41	5,51	5,63	5,76	5,91	6,08	6,27	6,48	6,57
50	5,56	5,64	5,73	5,84	5,96	6,10	6,25	6,42	6,61	6,82	6,91
55	5,93	6,01	6,11	6,22	6,35	6,49	6,64	6,81	7,00	7,21	7,30
60						6,93	7,09	7,27	7,46	7,67	7,76
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	17,00	21,80	27,40	33,90	41,50	50,30					
20	16,60	21,50	27,20	33,80	41,60	50,50	60,80	72,50			
30	16,40	21,20	26,90	33,50	41,20	50,20	60,60	72,60	86,50	102,50	109,50
35	16,40	21,10	26,70	33,20	40,90	49,90	60,30	72,40	86,50	102,50	110,00
40	16,50	21,00	26,40	32,90	40,50	49,40	59,80	72,00	86,00	102,50	110,00
45	16,60	20,90	26,10	32,40	39,90	48,70	59,10	71,30	85,50	102,50	110,00
50	16,80	20,80	25,80	31,80	39,10	47,80	58,20	70,50	85,00	102,00	109,50
55	17,20	20,80	25,50	31,20	38,20	46,80	57,10	69,40	84,00	101,50	109,50
60						45,60	55,80	68,20	83,00	101,50	109,50

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

Displacement @ 50 Hz, cu.m/h	11.8
Length/Width, mm	241/244
Height, mm	458
Net Weight, kg	38
Gross Weight, kg	41
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m, dBA	65
Sound Power, dBA	76
Sound Power with Sound Shell, dBA	66
PED Category	1
High Side PS, bar(g)	28.8
Low Side PS, bar(g)	21
Low Side TS Max., °C	50
Internal Free Volume, l	6.1

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

Maximum Operating Current, A	8
Locked Rotor Current, A	51.5
Winding Resistance, ohm	3.6
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	External Thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70W External
Current Sensing Relay	External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
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	TFD		Y	1,00
200-220 V/3~/50H	200	TF5		Y	2,09
200-230 V/3~/60H	230	TF5		Y	2,09
380 V/3~/60Hz	380	TF7		Y	1,26
460 V/3~/60Hz	460	TFD		Y	1,04