

Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return
 - - - 10K Suction Superheat

Suction Return Temperature 20,0°C

Evaporating Temperature °C

Liquid subcooling 0,0K

Cond °C	Capacity kW								
	-25	-20	-15	-10	-5	0	5	7	10
10	6,07	6,67	7,55	8,71					
20	4,54	5,20	6,09	7,21	8,56	10,20			
30	3,59	4,29	5,16	6,21	7,45	8,90	10,55	11,30	12,45
35	3,25	3,96	4,81	5,82	6,99	8,34	9,89	10,55	11,65
40	2,96	3,67	4,50	5,46	6,56	7,81	9,23	9,84	10,80
45		3,39	4,19	5,09	6,11	7,26	8,55	9,10	9,99
50		3,08	3,85	4,69	5,62	6,66	7,81	8,30	9,09
55			3,44	4,22	5,06	5,98	6,98	7,42	8,09
60				3,64	4,38	5,18	6,04	6,40	6,98
	Power Input kW								
	-25	-20	-15	-10	-5	0	5	7	10
10	1,25	1,24	1,22	1,20					
20	1,37	1,39	1,40	1,40	1,40	1,38			
30	1,58	1,62	1,66	1,69	1,70	1,70	1,69	1,68	1,67
35	1,71	1,78	1,83	1,86	1,89	1,90	1,89	1,89	1,88
40	1,88	1,95	2,02	2,06	2,10	2,12	2,12	2,12	2,11
45		2,15	2,23	2,29	2,33	2,36	2,37	2,37	2,36
50		2,38	2,47	2,53	2,59	2,62	2,64	2,64	2,64
55			2,73	2,81	2,87	2,91	2,93	2,94	2,94
60				3,11	3,18	3,23	3,26	3,26	3,26
	Current 400V, A								
	-25	-20	-15	-10	-5	0	5	7	10
10	2,93	2,94	2,94	2,96					
20	3,20	3,22	3,24	3,25	3,27	3,30			
30	3,48	3,53	3,57	3,60	3,62	3,64	3,66	3,67	3,68
35	3,64	3,71	3,77	3,81	3,84	3,86	3,87	3,88	3,88
40	3,82	3,91	3,98	4,04	4,08	4,10	4,12	4,12	4,13
45		4,14	4,23	4,30	4,35	4,39	4,41	4,41	4,41
50		4,40	4,51	4,60	4,67	4,71	4,74	4,74	4,75
55			4,83	4,94	5,02	5,08	5,12	5,13	5,13
60				5,33	5,43	5,50	5,55	5,56	5,57
	Mass Flow g/s								
	-25	-20	-15	-10	-5	0	5	7	10
10	34,10	37,70	42,90	49,90					
20	27,80	32,10	37,80	45,00	54,00	64,90			
30	24,30	29,20	35,30	42,90	52,00	62,80	75,50	81,50	90,50
35	23,20	28,50	34,90	42,50	51,70	62,40	75,00	80,50	90,00
40	22,50	28,00	34,60	42,40	51,60	62,20	74,70	80,50	89,50
45		27,70	34,50	42,40	51,50	62,00	74,30	80,00	88,50
50		27,20	34,20	42,20	51,20	61,60	73,60	79,00	87,50
55			33,40	41,40	50,40	60,60	72,30	77,50	86,00
60				39,80	48,70	58,60	69,90	74,90	83,00

Copeland Scroll - Compressor - Refrigeration - Digital
COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, cu.m/h	8.34
Length/Width, mm	243/243
Height, mm	432
Net Weight, kg	30.2
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.24
Base mounting (hole dia), mm	190 x 190 (19.0)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
Sound Power with Sound Shell (MT), dBA	59
High Side PS, bar(g)	28.8
Low Side PS, bar(g)	21

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

Maximum Operating Current, A	6.7
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83/4.83/0 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	External Thermostat
Mounting Grommets	Hard Mounts for Paralleling
Solenoid valve	Standard
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10 dBA)
Valve Coil	220 V
Valve Coil	24 V AC
Solenoid Valve Kit	220 V Ac 12" lead Length
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3 m Rotalock
Digital Tubing Kit	24 V 0.3 m Rotalock
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

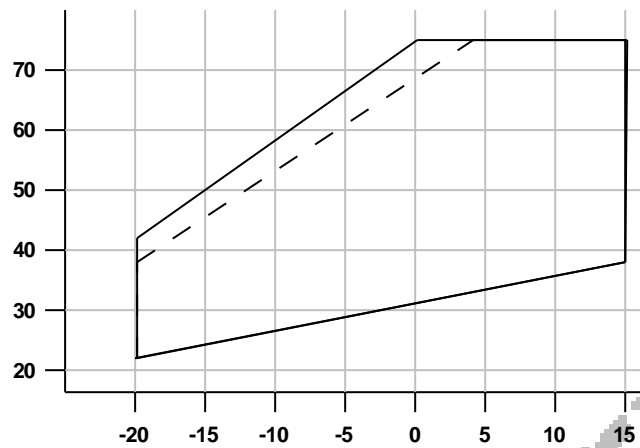
MOTOR OPTIONS

<i>Power Supply</i>	<i>Nominal Voltage</i>	<i>Motor Code</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
380-420 V/3~/50H	400	TFD		Y	1,00

50Hz

ZBD21KCE-TFD

R134a



Minimum evaporating temp. with:
 ——— 10K Suction Superheat
 - - - 20°C Suction Gas Return

Suction Return Temperature 20,0°C

Evaporating Temperature °C

Liquid subcooling 0,0K

Cond °C	Capacity kW									
	-20	-15	-10	-5	0	5	7	10	12,5	15
22	2,46									
30	2,29	2,90	3,59	4,40	4,86	5,85	6,30	7,03	7,70	8,42
40		2,66	3,29	4,01	4,36	5,23	5,62	6,26	6,84	7,48
50			2,99	3,62	4,36	5,23	5,62	6,26	6,84	7,48
55				3,43	4,11	4,92	5,28	5,87	6,41	7,00
60				3,24	3,87	4,60	4,94	5,48	5,98	6,53
65					3,62	4,29	4,59	5,09	5,55	6,05
70						3,98	4,25	4,70	5,12	5,57
75						3,66	3,91	4,31	4,68	5,09
	Power Input kW									
	-20	-15	-10	-5	0	5	7	10	12,5	15
22	0,94									
30	1,05	1,10	1,15	1,20	1,46	1,53	1,56	1,61	1,66	1,72
40		1,29	1,35	1,40	1,46	1,53	1,56	1,61	1,66	1,72
50			1,57	1,65	1,72	1,78	1,80	1,85	1,88	1,93
55				1,78	1,86	1,93	1,95	1,99	2,03	2,07
60				1,92	2,01	2,09	2,12	2,16	2,19	2,23
65					2,17	2,26	2,29	2,34	2,37	2,41
70						2,44	2,47	2,52	2,56	2,60
75						2,62	2,66	2,72	2,77	2,81
	Current 400V, A									
	-20	-15	-10	-5	0	5	7	10	12,5	15
22	2,31									
30	2,54	2,63	2,71	2,80	3,23	3,33	3,38	3,46	3,54	3,63
40		2,95	3,05	3,14	3,23	3,33	3,38	3,46	3,54	3,63
50			3,40	3,52	3,61	3,70	3,74	3,79	3,85	3,91
55				3,70	3,81	3,90	3,94	3,99	4,04	4,09
60				3,89	4,01	4,11	4,15	4,20	4,24	4,29
65					4,22	4,33	4,37	4,42	4,46	4,50
70						4,54	4,59	4,65	4,69	4,73
75						4,75	4,81	4,87	4,92	4,97
	Mass Flow g/s									
	-20	-15	-10	-5	0	5	7	10	12,5	15
22	13,00									
30	12,90	16,40	20,40	25,10	30,50	37,00	40,00	44,90	49,40	54,30
40		16,40	20,40	25,00	30,50	37,00	40,00	44,90	49,40	54,30
50			20,50	25,00	30,30	36,60	39,50	44,30	48,70	53,50
55				25,00	30,20	36,40	39,30	44,00	48,30	53,20
60				25,10	30,20	36,30	39,10	43,70	48,00	52,80
65					30,20	36,20	38,90	43,50	47,70	52,40
70						36,10	38,80	43,30	47,50	52,20
75						36,20	38,80	43,20	47,40	52,00

Preliminary Data

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