

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								
	-25	-20	-15	-10	-5	0	5	7	10
20	10,15	12,55	15,35	18,60	22,40	26,80			
25	9,53	11,90	14,60	17,70	21,30	25,40	30,10		
30	8,86	11,15	13,80	16,75	20,10	24,00	28,40	30,40	33,50
35	8,12	10,40	12,90	15,70	18,90	22,50	26,70	28,50	31,40
40	7,28	9,53	11,95	14,65	17,65	21,00	24,80	26,50	29,20
45		8,56	10,90	13,45	16,25	19,40	22,90	24,50	27,00
50			9,74	12,15	14,80	17,70	21,00	22,40	24,60
55			8,42	10,75	13,20	15,85	18,85	20,10	22,20
60				9,14	11,45	13,90	16,60	17,80	19,65
	Power Input kW								
	-25	-20	-15	-10	-5	0	5	7	10
20	3,59	3,66	3,75	3,84	3,89	3,89			
25	4,00	4,05	4,13	4,22	4,29	4,31	4,26		
30	4,48	4,50	4,57	4,65	4,72	4,76	4,74	4,70	4,63
35	5,05	5,03	5,07	5,14	5,20	5,25	5,25	5,23	5,17
40	5,72	5,66	5,66	5,70	5,76	5,80	5,81	5,79	5,75
45		6,39	6,35	6,36	6,39	6,43	6,43	6,42	6,39
50			7,16	7,12	7,13	7,14	7,14	7,13	7,10
55			8,10	8,01	7,97	7,96	7,94	7,93	7,90
60				9,03	8,95	8,90	8,85	8,83	8,79
	Current 400V, A								
	-25	-20	-15	-10	-5	0	5	7	10
20	9,42	9,50	9,60	9,70	9,77	9,77			
25	9,75	9,81	9,91	10,02	10,10	10,14	10,10		
30	10,19	10,22	10,30	10,40	10,50	10,56	10,55	10,52	10,44
35	10,76	10,74	10,79	10,88	10,98	11,05	11,06	11,05	10,99
40	11,48	11,41	11,42	11,48	11,56	11,63	11,66	11,65	11,61
45		12,24	12,20	12,22	12,27	12,33	12,36	12,35	12,32
50			13,15	13,13	13,14	13,17	13,19	13,18	13,16
55			14,31	14,22	14,19	14,18	14,18	14,16	14,13
60				15,53	15,43	15,38	15,34	15,32	15,27
	Mass Flow g/s								
	-25	-20	-15	-10	-5	0	5	7	10
20	62,20	77,50	95,00	116,50	141,50	171,00			
25	61,20	77,00	95,00	116,00	141,00	170,00	205,00		
30	59,90	76,00	94,50	115,50	140,50	169,00	204,00	219,00	244,00
35	58,00	74,80	93,50	115,00	139,50	169,00	202,00	218,00	242,00
40	55,30	72,80	92,00	114,00	138,50	167,00	201,00	216,00	241,00
45		69,90	90,00	112,00	137,00	166,00	200,00	215,00	239,00
50			86,50	109,50	134,50	164,00	198,00	213,00	237,00
55			82,00	105,50	131,50	161,00	195,00	210,00	235,00
60				100,00	127,00	157,00	192,00	208,00	234,00

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

Displacement @ 50 Hz, cu.m/h	22.1
Length/Width, mm	264/284
Height, mm	476
Net Weight, kg	60
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	2.51
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (MT), dBA	65
Sound Power (MT), dBA	76
Sound Power with Sound Shell (MT), dBA	66
High Side PS, bar(g)	32
Low Side PS, bar(g)	22.6

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

Maximum Operating Current, A	15.6
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Solenoid valve	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Discharge Temperature Protection	External Thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10 dBA)
Valve Coil	220 V
Valve Coil	24 V AC
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

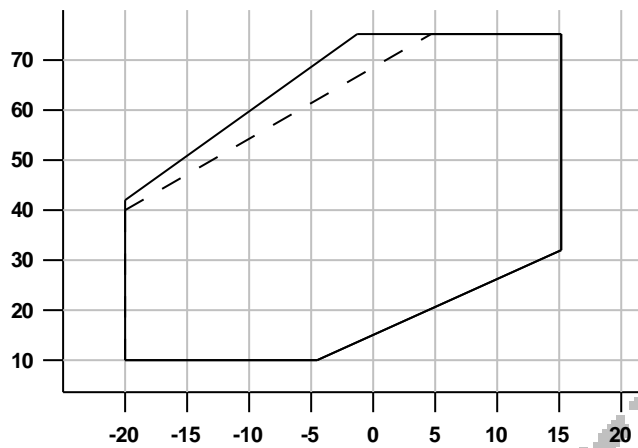
MOTOR OPTIONS

<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
200-220 V/3~/50H	200	TF5		Y	2,09
200-230 V/3~/60H	230	TF5		Y	2,09
575 V/3~/60Hz	575	TFE		Y	0,80
460 V/3~/60Hz	460	TFD		Y	1,04

50Hz

ZBD58KCE-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
10	7,14	8,91	11,05	13,50						
20	6,44	8,12	10,10	12,45	15,15					
30	5,78	7,35	9,20	11,40	13,90	16,80	18,10	20,10	21,90	
40	5,16	6,57	8,27	10,25	12,60	15,25	16,40	18,30	19,95	21,70
50			7,31	9,09	11,15	13,55	14,65	16,30	17,85	19,45
60				7,88	9,70	11,80	12,75	14,25	15,60	17,00
65					8,93	10,90	11,75	13,15	14,40	15,75
70						9,95	10,75	12,05	13,20	14,40
75						8,99	9,71	10,90	11,95	13,05
	Power Input kW									
	-20	-15	-10	-5	0	5	7	10	12,5	15
10	1,68	1,67	1,72	1,82						
20	2,17	2,13	2,16	2,23	2,32					
30	2,73	2,69	2,71	2,76	2,82	2,88	2,90	2,91	2,91	
40	3,38	3,36	3,37	3,42	3,47	3,51	3,52	3,52	3,50	3,46
50			4,15	4,21	4,27	4,30	4,31	4,29	4,27	4,22
60				5,13	5,21	5,25	5,26	5,25	5,22	5,17
65					5,73	5,79	5,79	5,79	5,76	5,71
70						6,36	6,37	6,37	6,35	6,30
75						6,97	6,99	7,00	6,98	6,94
	Current 400V, A									
	-20	-15	-10	-5	0	5	7	10	12,5	15
10	7,79	7,89	7,99	8,10						
20	8,15	8,21	8,27	8,32	8,36					
30	8,58	8,64	8,68	8,71	8,71	8,69	8,67	8,63	8,59	
40	9,10	9,18	9,23	9,26	9,27	9,23	9,20	9,15	9,09	9,02
50			9,94	10,00	10,03	10,01	9,99	9,94	9,88	9,81
60				10,94	11,02	11,05	11,04	11,01	10,97	10,91
65					11,60	11,66	11,67	11,66	11,63	11,58
70						12,34	12,37	12,38	12,36	12,33
75						13,10	13,14	13,17	13,18	13,17
	Mass Flow g/s									
	-20	-15	-10	-5	0	5	7	10	12,5	15
10	34,60	43,40	53,80	66,20						
20	33,50	42,40	53,10	65,70	80,50					
30	32,60	41,50	52,20	64,90	80,00	97,00	105,00	117,50	128,50	
40	31,70	40,50	51,20	63,90	79,00	96,50	104,00	116,50	128,00	140,50
50			50,10	62,60	77,50	95,00	103,00	115,50	127,00	139,50
60				61,00	75,50	93,00	101,00	113,50	125,00	137,50
65					74,50	92,00	99,50	112,50	124,00	136,50
70						90,50	98,00	111,00	122,50	135,00
75						89,00	96,50	109,00	121,00	133,50

Preliminary Data

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Net Weight, kg	60
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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
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200-230 V/3~/60H	230	TF5		Y	2,09
575 V/3~/60Hz	575	TFE		Y	0,80
460 V/3~/60Hz	460	TFD		Y	1,04