

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

Suction Superheat 10,0K

Evaporating Temperature °C

Liquid subcooling 0,0K

Cond °C	Capacity kW								
	-20	-15	-10	-5	0	5	7	10	12,5
27	5,70	7,28	9,17	11,35	13,75	16,35	17,45	19,15	20,60
30	5,54	7,09	8,94	11,05	13,45	16,05	17,10	18,80	20,20
35	5,22	6,70	8,49	10,55	12,85	15,40	16,45	18,15	19,55
40	4,86	6,26	7,97	9,96	12,20	14,70	15,75	17,35	18,75
45		5,80	7,42	9,33	11,50	13,90	14,90	16,50	17,85
50			6,88	8,70	10,80	13,10	14,05	15,60	16,95
55			6,39	8,10	10,05	12,30	13,25	14,70	16,00
60				7,56	9,41	11,50	12,40	13,85	15,10
65					8,84	10,80	11,70	13,05	14,20
	Power Input kW								
	-20	-15	-10	-5	0	5	7	10	12,5
27	2,26	2,31	2,34	2,37	2,42	2,50	2,54	2,63	2,73
30	2,42	2,47	2,51	2,54	2,59	2,68	2,73	2,82	2,91
35	2,70	2,76	2,80	2,83	2,89	2,98	3,03	3,12	3,22
40	3,02	3,08	3,12	3,15	3,20	3,29	3,34	3,43	3,53
45		3,45	3,47	3,50	3,55	3,63	3,67	3,76	3,86
50			3,89	3,90	3,94	4,01	4,05	4,13	4,22
55			4,37	4,37	4,39	4,44	4,48	4,55	4,63
60				4,92	4,91	4,95	4,98	5,04	5,11
65					5,53	5,54	5,56	5,61	5,67
	Current 400V, A								
	-20	-15	-10	-5	0	5	7	10	12,5
27	5,97	6,02	6,04	6,07	6,11	6,19	6,24	6,33	6,43
30	6,10	6,15	6,18	6,21	6,27	6,36	6,41	6,52	6,62
35	6,37	6,41	6,44	6,48	6,54	6,65	6,71	6,82	6,94
40	6,71	6,74	6,76	6,79	6,85	6,96	7,03	7,15	7,27
45		7,15	7,15	7,17	7,22	7,32	7,39	7,51	7,63
50			7,63	7,63	7,66	7,75	7,81	7,92	8,04
55			8,23	8,19	8,20	8,26	8,31	8,41	8,52
60				8,88	8,84	8,88	8,91	9,00	9,09
65					9,62	9,61	9,63	9,69	9,77
	Mass Flow g/s								
	-20	-15	-10	-5	0	5	7	10	12,5
27	33,30	41,90	52,20	63,70	76,50	90,00	95,50	104,00	111,50
30	33,10	41,70	52,00	63,50	76,50	90,00	95,50	104,50	112,00
35	32,40	41,00	51,30	62,90	76,00	89,50	95,50	104,50	112,00
40	31,40	39,90	50,10	61,80	74,80	89,00	94,50	104,00	111,50
45		38,60	48,70	60,40	73,50	87,50	93,50	103,00	110,50
50			47,30	58,90	72,00	86,50	92,50	101,50	109,50
55			46,10	57,60	70,60	85,00	91,00	100,50	108,50
60				56,70	69,50	84,00	90,00	99,50	107,50
65					69,10	83,50	89,50	99,00	107,00

Copeland Scroll - Compressor - Air Conditioning - Standard
COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, cu.m/h	14.4
Length/Width, mm	241/247
Height, mm	438
Net Weight, kg	38.6
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.66
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	60
Sound Power (HT), dBA	71
PED Category	1
Internal Free Volume, l	4.4
High Side PS, bar(g)	29.5
Low Side PS, bar(g)	20
Low Side TS Max., °C	50

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

Maximum Operating Current, A	11
Locked Rotor Current, A	65.5
Winding Resistance, ohm	2.75
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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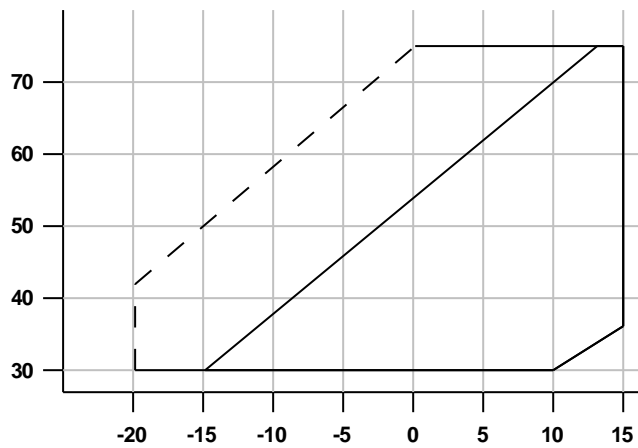
MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
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
460 V/3~/60Hz	460	TFD		Y	1,04

50Hz

ZR61KCE-TFD

R134a



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

Suction Superheat 10,0K

Evaporating Temperature °C

Liquid subcooling 0,0K

Cond °C	Capacity kW									
	-20	-15	-10	-5	0	5	7	10	12,5	15
30	3,46	4,54	5,80	7,27	8,99	11,00	11,90	13,35		
40	3,03	4,03	5,18	6,53	8,10	9,94	10,75	12,10	13,30	14,60
45		3,77	4,87	6,15	7,65	9,40	10,20	11,45	12,60	13,85
50		3,51	4,55	5,77	7,18	8,85	9,59	10,80	11,90	13,05
55			4,23	5,37	6,71	8,28	8,98	10,15	11,15	12,30
60				4,96	6,22	7,70	8,36	9,44	10,40	11,50
65				4,54	5,71	7,09	7,71	8,73	9,65	10,65
70					5,18	6,46	7,04	7,99	8,85	9,78
75					4,62	5,80	6,34	7,21	8,01	8,88
	Power Input kW									
	-20	-15	-10	-5	0	5	7	10	12,5	15
30	1,67	1,71	1,73	1,75	1,76	1,78	1,79	1,80		
40	2,07	2,11	2,14	2,16	2,18	2,20	2,22	2,24	2,26	2,28
45		2,35	2,38	2,40	2,42	2,45	2,46	2,48	2,50	2,53
50		2,62	2,65	2,67	2,69	2,71	2,73	2,75	2,77	2,79
55			2,96	2,98	2,99	3,01	3,03	3,05	3,07	3,09
60				3,32	3,34	3,35	3,36	3,38	3,40	3,42
65				3,72	3,73	3,74	3,75	3,76	3,78	3,80
70					4,17	4,17	4,18	4,19	4,20	4,22
75					4,67	4,66	4,67	4,67	4,68	4,70
	Current 400V, A									
	-20	-15	-10	-5	0	5	7	10	12,5	15
30	4,80	4,85	4,87	4,87	4,86	4,86	4,86	4,87		
40	4,92	5,01	5,06	5,09	5,10	5,11	5,11	5,12	5,14	5,16
45		5,20	5,27	5,31	5,33	5,34	5,35	5,36	5,37	5,39
50		5,46	5,54	5,59	5,62	5,64	5,65	5,66	5,68	5,69
55			5,89	5,95	5,99	6,01	6,02	6,03	6,05	6,06
60				6,37	6,41	6,44	6,45	6,47	6,48	6,50
65				6,85	6,90	6,94	6,95	6,97	6,98	7,00
70					7,45	7,49	7,51	7,52	7,54	7,55
75					8,05	8,10	8,12	8,14	8,15	8,16
	Mass Flow g/s									
	-20	-15	-10	-5	0	5	7	10	12,5	15
30	22,70	29,20	36,50	44,90	54,40	65,30	70,10	78,00		
40	22,00	28,60	36,00	44,30	53,80	64,70	69,50	77,00	84,00	91,50
45		28,30	35,70	44,10	53,50	64,40	69,10	77,00	83,50	91,00
50		28,00	35,40	43,70	53,20	64,00	68,70	76,50	83,00	90,50
55			35,00	43,30	52,70	63,50	68,30	76,00	82,50	90,00
60				42,80	52,20	62,90	67,70	75,00	82,00	89,50
65				42,10	51,50	62,20	66,90	74,50	81,50	88,50
70					50,60	61,30	66,00	73,50	80,50	87,50
75					49,50	60,10	64,80	72,40	79,00	86,50

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Net Weight, kg	38.6
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Default Enclosure Class	IP 21 (IEC 34)

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