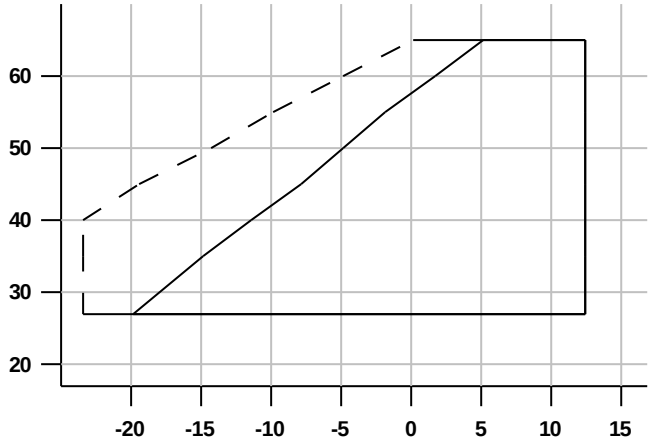
50Hz ZR72KCE-TFD R22



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	7,57	9,43	11,55	13,95	16,70	19,80	21,20	23,30	25,20
30	7,35	9,19	11,25	13,65	16,35	19,40	20,70	22,80	24,70
35	6,95	8,74	10,75	13,05	15,65	18,60	19,90	21,90	23,70
40	6,50	8,25	10,20	12,45	14,95	17,80	19,00	21,00	22,70
45		7,71	9,61	11,75	14,15	16,90	18,05	19,95	21,60
50			8,97	11,00	13,35	15,95	17,10	18,90	20,50
55			8,30	10,25	12,45	14,95	16,05	17,80	19,30
60				9,47	11,55	13,95	15,00	16,65	18,10
65					10,65	12,90	13,90	15,45	16,85
	Power Input kW								
	-20	-15	-10	-5	0	5	7	10	12,5
27	2,98	2,98	2,98	3,00	3,03	3,07	3,09	3,12	3,16
30	3,16	3,16	3,16	3,17	3,19	3,22	3,24	3,27	3,31
35	3,50	3,49	3,49	3,49	3,51	3,53	3,55	3,57	3,60
40	3,90	3,88	3,87	3,87	3,88	3,89	3,90	3,92	3,95
45		4,32	4,31	4,30	4,30	4,31	4,32	4,33	4,35
50			4,80	4,78	4,78	4,78	4,78	4,79	4,81
55			5,34	5,32	5,31	5,30	5,31	5,31	5,32
60				5,91	5,89	5,88	5,88	5,88	5,89
65					6,53	6,52	6,51	6,51	6,52
	Current 400V, A								
	-20	-15	-10	-5	0	5	7	10	12,5
27	5,97	5,98	6,00	6,02	6,05	6,11	6,14	6,19	6,25
30	6,21	6,22	6,22	6,24	6,26	6,31	6,34	6,39	6,44
35	6,67	6,67	6,67	6,67	6,68	6,72	6,74	6,78	6,83
40	7,23	7,22	7,20	7,19	7,19	7,22	7,23	7,27	7,31
45		7,85	7,83	7,80	7,80	7,81	7,82	7,85	7,88
50			8,55	8,52	8,50	8,50	8,51	8,53	8,56
55			9,37	9,33	9,30	9,29	9,30	9,31	9,33
60				10,25	10,21	10,19	10,19	10,20	10,22
65					11,24	11,21	11,20	11,21	11,22
	Mass Flow g/s								
	-20	-15	-10	-5	0	5	7	10	12,5
27	44,20	54,30	65,70	78,50	93,00	109,00	116,00	127,00	136,50
30	43,90	54,10	65,50	78,50	92,50	109,00	115,50	126,50	136,50
35	43,10	53,50	65,00	78,00	92,50	108,50	115,50	126,50	136,00
40	42,00	52,60	64,20	77,00	91,50	107,50	114,50	125,50	135,00
45		51,40	63,10	76,00	90,50	106,50	113,50	124,50	134,00
50			61,60	74,60	89,00	105,00	112,00	123,00	132,50
55			59,90	73,00	87,50	103,50	110,50	121,50	131,00
60				71,00	85,50	101,50	108,50	119,50	129,00
65					83,50	99,50	106,00	117,00	127,00

Copeland Scroll - Compressor - Air Conditioning - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, cu.m/h	17.1
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	38.6
Gross Weight, kg	44
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.77
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	61
Sound Power (HT), dBA	72
PED Category	1
Internal Free Volume, l	4.1
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	13
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

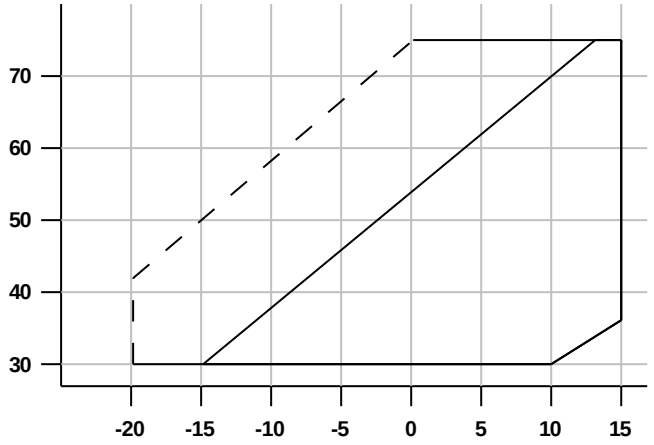
ACCESSORIES OPTIONAL

Crankcase Heater	70 W External

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 ZR72KCE-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	4,32	5,54	7,03	8,79	10,85	13,25	14,30	16,00		
40	3,73	4,82	6,17	7,78	9,69	11,90	12,90	14,45	15,85	17,35
45		4,48	5,74	7,27	9,08	11,20	12,15	13,65	15,00	16,40
50		4,14	5,31	6,74	8,45	10,45	11,35	12,80	14,10	15,45
55			4,88	6,21	7,82	9,72	10,55	11,95	13,15	14,45
60				5,68	7,17	8,95	9,75	11,05	12,20	13,45
65				5,15	6,52	8,17	8,91	10,10	11,20	12,40
70					5,85	7,37	8,06	9,18	10,20	11,30
75					5,18	6,55	7,18	8,21	9,16	10,20
	Power Input kW									
	-20	-15	-10	-5	0	5	7	10	12,5	15
30	2,02	2,01	2,01	2,02	2,04	2,06	2,07	2,09		
40	2,59	2,57	2,56	2,57	2,58	2,60	2,61	2,62	2,63	2,65
45		2,90	2,88	2,88	2,89	2,90	2,91	2,92	2,93	2,94
50		3,27	3,24	3,23	3,23	3,24	3,25	3,26	3,26	3,27
55			3,66	3,64	3,63	3,63	3,63	3,63	3,64	3,64
60				4,10	4,08	4,07	4,07	4,07	4,07	4,07
65				4,64	4,60	4,58	4,57	4,57	4,56	4,56
70					5,20	5,17	5,15	5,14	5,13	5,12
75					5,89	5,84	5,82	5,79	5,78	5,76
	Current 400V, A									
	-20	-15	-10	-5	0	5	7	10	12,5	15
30	4,93	4,94	4,94	4,94	4,95	4,97	4,98	5,01		
40	5,52	5,52	5,52	5,52	5,53	5,55	5,56	5,58	5,61	5,64
45		5,91	5,90	5,89	5,89	5,91	5,92	5,94	5,96	5,99
50		6,37	6,35	6,34	6,33	6,33	6,34	6,35	6,37	6,40
55			6,89	6,87	6,85	6,84	6,84	6,85	6,87	6,89
60				7,50	7,47	7,44	7,44	7,44	7,45	7,46
65				8,25	8,19	8,16	8,15	8,14	8,14	8,14
70					9,05	8,99	8,97	8,95	8,94	8,94
75					10,04	9,96	9,94	9,90	9,88	9,86
	Mass Flow g/s									
	-20	-15	-10	-5	0	5	7	10	12,5	15
30	28,30	35,60	44,20	54,30	65,70	78,50	84,50	93,00		
40	27,20	34,30	42,80	52,90	64,40	77,50	83,00	92,00	100,00	108,50
45		33,60	42,10	52,00	63,60	76,50	82,50	91,50	99,50	108,00
50		33,00	41,30	51,10	62,60	75,50	81,50	90,50	98,50	107,00
55			40,40	50,10	61,50	74,50	80,50	89,50	97,50	106,00
60				49,00	60,20	73,20	79,00	88,00	96,00	104,50
65				47,80	58,80	71,60	77,50	86,50	94,50	103,00
70					57,20	69,90	75,50	84,50	92,50	101,00
75					55,50	67,90	73,40	82,50	90,50	99,00

Copeland Scroll - Compressor - Air Conditioning - Standard

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Height, mm	438
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Oil Quantity, l	1.77
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PED Category	1
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Mounting Grommets	Standard

ACCESSORIES OPTIONAL

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MOTOR OPTIONS

Power Supply	*Nominal Voltage*	*Motor Code*	*Start Connection*	*DOL Connection*	*Amps Factor*
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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