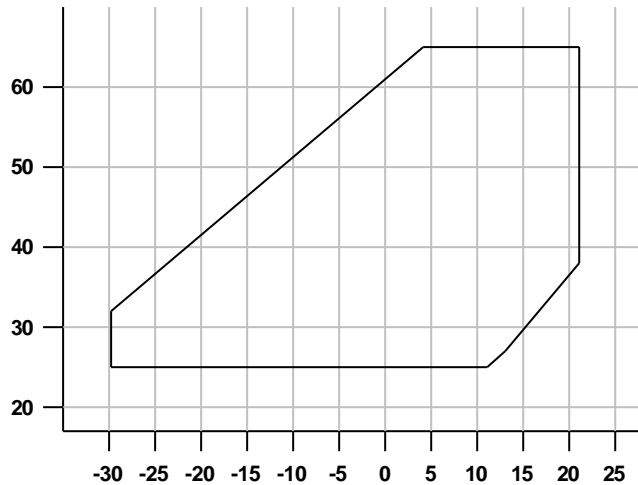


50Hz

ZR190KCE-TFD

R407C Dew Point



Minimum evaporating temp. with:  
 ——— 10K Suction Superheat

Suction Superheat 10,0K

Evaporating Temperature °C

Liquid subcooling 0,0K

Cond °C	Capacity kW												
	-30	-25	-20	-15	-10	-5	0	5	7	10	12,5	15	20
25	10,15	13,65	17,70	22,40	27,90	34,40	41,80	50,50	54,30	60,50			
30	8,92	12,55	16,60	21,30	26,80	33,10	40,40	48,90	52,60	58,60	63,90	69,70	
35		11,20	15,35	20,00	25,40	31,60	38,70	46,90	50,60	56,40	61,60	67,10	
40			13,85	18,45	23,80	29,80	36,70	44,70	48,20	53,80	58,80	64,20	76,00
45				16,75	21,90	27,80	34,50	42,10	45,50	50,90	55,80	60,90	72,30
50					19,80	25,50	31,90	39,30	42,60	47,70	52,40	57,30	68,20
55						23,00	29,20	36,20	39,30	44,30	48,70	53,40	63,80
60							26,20	32,90	35,80	40,50	44,70	49,20	59,10
65								29,30	32,10	36,50	40,50	44,70	54,00
	Power Input kW												
	-30	-25	-20	-15	-10	-5	0	5	7	10	12,5	15	20
25	6,64	6,77	6,86	6,93	7,02	7,16	7,37	7,68	7,84	8,13			
30	7,41	7,57	7,67	7,74	7,80	7,89	8,03	8,26	8,38	8,60	8,82	9,08	
35		8,44	8,57	8,65	8,70	8,76	8,85	9,00	9,09	9,25	9,42	9,62	
40			9,57	9,67	9,73	9,77	9,83	9,92	9,98	10,10	10,20	10,35	10,80
45				10,80	10,90	10,95	10,95	11,05	11,05	11,15	11,20	11,35	11,65
50					12,20	12,25	12,30	12,30	12,35	12,40	12,45	12,50	12,75
55						13,75	13,75	13,80	13,80	13,85	13,85	13,90	14,05
60							15,45	15,50	15,50	15,50	15,50	15,55	15,65
65								17,35	17,35	17,40	17,40	17,40	17,45
	Current 400V, A												
	-30	-25	-20	-15	-10	-5	0	5	7	10	12,5	15	20
25	19,47	19,54	19,58	19,62	19,68	19,80	19,99	20,29	20,45	20,72			
30	20,03	20,14	20,20	20,24	20,28	20,34	20,47	20,67	20,78	20,98	21,19	21,43	
35		20,87	20,98	21,03	21,07	21,11	21,18	21,31	21,38	21,53	21,67	21,85	
40			21,91	22,01	22,07	22,10	22,14	22,22	22,27	22,36	22,46	22,59	22,93
45				23,18	23,27	23,33	23,36	23,41	23,44	23,50	23,56	23,65	23,89
50					24,70	24,79	24,84	24,88	24,90	24,94	24,98	25,03	25,20
55						26,51	26,59	26,65	26,66	26,69	26,72	26,75	26,86
60							28,62	28,71	28,73	28,76	28,79	28,81	28,88
65								31,08	31,12	31,16	31,19	31,22	31,28
	Mass Flow g/s												
	-30	-25	-20	-15	-10	-5	0	5	7	10	12,5	15	20
25	58,70	77,50	99,00	123,50	151,00	184,00	220,00	262,00	281,00	310,00			
30	54,00	74,50	97,00	122,50	152,00	185,00	222,00	265,00	283,00	313,00	339,00	367,00	
35		70,00	94,00	120,50	150,00	184,00	222,00	266,00	284,00	314,00	341,00	369,00	
40			89,50	117,00	148,00	182,00	221,00	265,00	284,00	314,00	341,00	370,00	432,00
45				112,00	144,00	179,00	219,00	263,00	282,00	313,00	340,00	369,00	431,00
50					138,00	174,00	214,00	259,00	279,00	310,00	337,00	366,00	429,00
55						167,00	208,00	254,00	274,00	305,00	332,00	362,00	425,00
60							200,00	247,00	270,00	298,00	326,00	356,00	420,00
65								237,00	258,00	290,00	318,00	348,00	413,00

**Copeland Scroll - Compressor - Air Conditioning - Standard**

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, cu.m/h	43.3
Length/Width, mm	264/285
Height, mm	552
Net Weight, kg	66.2
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.38
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
PED Category	2
Internal Free Volume, l	14
High Side PS, bar(g)	32
Low Side PS, bar(g)	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35

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

Maximum Operating Current, A	34
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Enclosure Class	IP21
Oil Service Valve	Schraeder Valve
Check Valve (NRV)	Discharge Low Leak Check Valve

**ACCESSORIES OPTIONAL**

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (12 dBA)

**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	TW5		Y	2,30
460 V/3~/60Hz	460	TFD		Y	1,04
575 V/3~/60Hz	575	TWE		Y	0,80
380 V/3~/60Hz	380	TW7		Y	1,26
200-230 V/3~/60H	230	TW5		Y	2,30