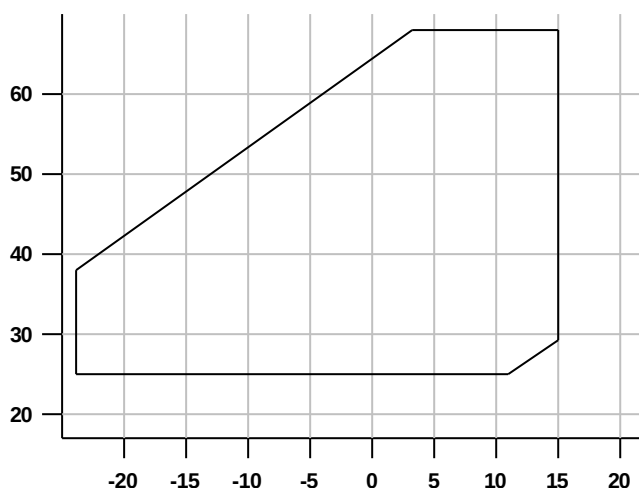


50Hz

ZR310KCE-TWD

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									
	-20	-15	-10	-5	0	5	7	10	12,5	15
25	30,80	39,00	48,80	60,30	73,70	89,20	96,10	107,00		
30	28,50	36,50	45,80	56,80	69,70	84,60	91,20	101,50	111,00	121,50
40	24,00	31,20	39,70	49,70	61,40	75,00	81,00	90,70	99,30	108,50
45		28,60	36,60	46,10	57,20	70,10	75,80	85,00	93,20	102,00
50			33,50	42,40	52,80	65,00	70,40	79,10	87,00	95,40
55				38,60	48,40	59,90	65,00	73,20	80,60	88,60
60					43,90	54,60	59,40	67,20	74,20	81,70
65						49,30	53,80	61,00	67,60	74,60
68						46,10	50,40	57,30	63,60	70,30
	Power Input kW									
	-20	-15	-10	-5	0	5	7	10	12,5	15
25	11,05	11,25	11,50	11,80	12,10	12,45	12,60	12,85		
30	12,30	12,45	12,65	12,90	13,20	13,55	13,65	13,90	14,10	14,30
40	15,55	15,60	15,70	15,85	16,05	16,30	16,40	16,60	16,80	16,95
45		17,60	17,65	17,75	17,85	18,05	18,15	18,35	18,50	18,65
50			19,95	19,95	20,00	20,20	20,20	20,40	20,50	20,60
55				22,50	22,50	22,60	22,60	22,70	22,80	22,90
60					25,50	25,40	25,40	25,50	25,60	25,60
65						28,70	28,70	28,70	28,70	28,70
68						30,90	30,80	30,80	30,80	30,80
	Current 400V, A									
	-20	-15	-10	-5	0	5	7	10	12,5	15
25	24,37	24,64	24,86	25,10	25,38	25,77	25,96	26,30		
30	25,73	26,00	26,22	26,42	26,67	27,00	27,16	27,45	27,74	28,08
40	29,21	29,49	29,69	29,85	30,01	30,23	30,34	30,55	30,75	31,00
45		31,78	31,97	32,11	32,23	32,40	32,48	32,64	32,81	33,02
50			34,72	34,84	34,93	35,04	35,10	35,22	35,35	35,51
55				38,12	38,18	38,24	38,27	38,35	38,44	38,56
60					42,06	42,07	42,08	42,12	42,17	42,24
65						46,62	46,61	46,60	46,61	46,65
68						49,73	49,70	49,67	49,66	49,67
	Mass Flow g/s									
	-20	-15	-10	-5	0	5	7	10	12,5	15
25	172,00	215,00	264,00	322,00	388,00	463,00	496,00	549,00		
30	167,00	210,00	259,00	317,00	383,00	458,00	491,00	543,00	590,00	640,00
40	155,00	198,00	247,00	304,00	370,00	445,00	477,00	530,00	576,00	626,00
45		191,00	241,00	297,00	362,00	437,00	470,00	522,00	568,00	618,00
50			233,00	289,00	354,00	429,00	461,00	513,00	560,00	609,00
55				281,00	345,00	419,00	452,00	504,00	550,00	600,00
60					336,00	410,00	442,00	494,00	540,00	590,00
65						399,00	431,00	484,00	530,00	580,00
68						392,00	425,00	477,00	524,00	574,00

50Hz

ZR310KCE-TWD

R407C Dew Point

Copeland Scroll - Compressor - Air Conditioning - Standard

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	1
Displacement @ 50 Hz, cu.m/h	71.4
Length/Width, mm	448/392
Height, mm	715
Net Weight, kg	160
Gross Weight, kg	188
Rotalock Suction, inch	2 1/4 x 12 UN
Rotalock Discharge, inch	1 3/4 x 12 UN
Stub Suction, inch	1 5/8 ID
Stub Discharge, inch	1 3/8 ID
Oil Quantity, l	6.8
Base mounting (hole dia), mm	266.7 x 266.7 (22.6)
Sound Pressure @ 1m (HT), dBA	74
Sound Power (HT), dBA	85
PED Category	2
Internal Free Volume, l	34.8
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	52
Locked Rotor Current, A	272
Winding Resistance, ohm	0.51
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Discharge Temperature Protection	PTC in Scroll Discharge Port
Enclosure Class	IP 54
Mounting Grommets	Standard
Oil Service Valve	Schraeder Valve
Check Valve (NRV)	Discharge Low Leak Check Valve

ACCESSORIES OPTIONAL

Crankcase Heater	150 W External
Mounting Grommets	Rubber Grommet For Single
Mounting Grommets	Rubber Grommet For Parallel Operation
Adapter Kit	R1"3/4 - B1"3/8 For TPTL for Parallel Operation
Oil Control System	ALCO Trax-Oil OM3

MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	TWD		Y	1,00
460 V/3~/60Hz	460	TWD		Y	1,00
208-230 V/3~/60H	230	TWC		Y	2,09
575 V/3~/60Hz	575	TWE		Y	0,80
380 V/3~/60Hz	380	TW7		Y	1,26