

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	20
10	45,50	54,80	65,80	78,60	88,80	105,00					
20	42,80	52,00	62,60	74,80	83,40	98,60	105,00	116,00	125,50	135,50	
30	38,80	48,10	58,40	70,10	77,10	91,30	97,50	107,50	116,00	125,50	146,00
40	33,30	42,80	53,10	64,40	73,50	87,30	93,30	103,00	111,50	120,50	140,00
45		39,50	49,80	61,10	73,50	87,30	93,30	103,00	111,50	120,50	140,00
50			46,20	57,40	69,50	83,00	88,80	98,10	106,00	115,00	134,00
55				53,20	65,20	78,40	84,00	92,90	101,00	109,00	127,50
60					60,50	73,40	78,80	87,50	95,10	103,00	120,50
65					55,30	67,90	73,30	81,70	89,10	96,80	
	Power Input kW										
	-20	-15	-10	-5	0	5	7	10	12,5	15	20
10	9,56	9,87	10,30	10,95	13,60	14,35					
20	12,10	12,30	12,60	13,00	16,20	16,75	17,05	17,50	18,00	18,50	
30	15,10	15,30	15,50	15,80	21,80	22,10	22,30	22,70	23,00	23,30	22,40
40	18,60	18,85	19,10	19,35	21,80	22,10	22,30	22,70	23,00	23,30	24,20
45		20,90	21,20	21,40	21,80	22,10	22,30	22,70	23,00	23,30	24,20
50			23,40	23,70	24,10	24,50	24,60	24,90	25,20	25,50	26,30
55				26,20	26,60	27,00	27,20	27,50	27,70	28,10	28,80
60					29,40	29,80	30,00	30,30	30,60	30,90	31,60
65					32,40	32,90	33,10	33,50	33,70	34,00	
	Current 400V, A										
	-20	-15	-10	-5	0	5	7	10	12,5	15	20
10	23,58	23,67	23,78	23,94	27,73	28,25					
20	26,54	26,75	27,01	27,32	31,40	32,02	32,31	32,80	33,26	33,76	
30	29,94	30,20	30,52	30,91	35,85	36,49	36,79	37,30	37,78	38,30	39,53
40	34,45	34,68	34,97	35,35	41,74	42,32	42,60	43,07	43,53	44,04	45,24
45		37,51	37,76	38,11	41,74	42,32	42,60	43,07	43,53	44,04	45,24
50			41,03	41,32	45,43	45,94	46,20	46,64	47,07	47,56	48,72
55				45,08	49,73	50,16	50,38	50,78	51,17	51,63	52,72
60					54,71	55,03	55,22	55,56	55,91	56,32	
65											
	Mass Flow g/s										
	-20	-15	-10	-5	0	5	7	10	12,5	15	20
10	237,00	282,00	334,00	395,00	471,00	551,00					
20	237,00	285,00	339,00	400,00	473,00	553,00	588,00	643,00	692,00	745,00	
30	231,00	283,00	340,00	403,00	472,00	553,00	588,00	643,00	692,00	743,00	856,00
40	215,00	273,00	334,00	400,00	472,00	553,00	588,00	643,00	692,00	743,00	856,00
45		263,00	327,00	395,00	469,00	551,00	586,00	641,00	690,00	742,00	854,00
50			317,00	388,00	464,00	547,00	583,00	638,00	687,00	739,00	851,00
55				378,00	457,00	542,00	578,00	634,00	684,00	736,00	848,00
60					447,00	534,00	570,00	628,00	678,00	731,00	844,00
65					432,00	523,00	561,00	620,00	671,00	724,00	

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

Displacement @ 50 Hz, cu.m/h	87.5
Length/Width, mm	447/427
Height, mm	715
Net Weight, kg	176.9
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 3/8
Oil Quantity, l	6.3
Base mounting (hole dia), mm	266.7 x 266.7 (22.6)
Sound Pressure @ 1m (HT), dBA	77
Sound Power (HT), dBA	88
PED Category	2
Internal Free Volume, l	31.6
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	62.5
Locked Rotor Current, A	310
Winding Resistance, ohm	0.37
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

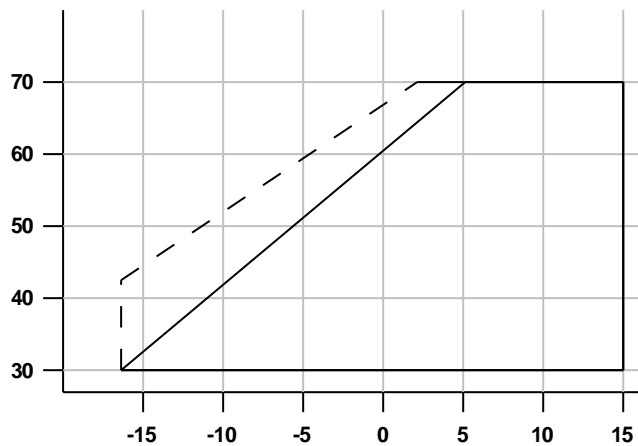
Discharge Temperature Protection	Internal Thermistor
Discharge Temperature Protection	PTC in Scroll Discharge Port
Enclosure Class	IP 54
Mounting Grommets	Standard
Mounting Grommets	Rubber Grommet For Single
Oil Service Valve	Schraeder Valve
Check Valve (NRV)	Discharge Low Leak Check Valve

**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**

<b>Power Supply</b>	<b>Nominal Voltage</b>	<b>Motor Code</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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



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								
	-15	-10	-5	0	5	7	10	12,5	15
30	29,10	36,60	45,50	55,70	67,50	72,60	80,80	88,00	95,70
35	27,50	34,80	43,40	53,30	64,80	69,80	77,70	84,80	92,30
40	26,00	32,90	41,10	50,80	61,80	66,70	74,40	81,30	88,60
45		31,00	38,80	48,00	58,70	63,40	70,90	77,50	84,60
50		29,00	36,50	45,20	55,40	59,90	67,10	73,60	80,40
55			34,10	42,30	52,00	56,30	63,20	69,40	76,00
60				39,40	48,60	52,60	59,20	65,10	71,30
65				36,50	45,10	48,90	55,10	60,60	66,60
70					41,50	45,10	50,90	56,10	61,70
Cond °C	Power Input kW								
	-15	-10	-5	0	5	7	10	12,5	15
30	10,60	10,80	10,95	11,10	11,15	11,15	11,15	11,10	11,10
35	11,75	12,00	12,20	12,35	12,50	12,55	12,55	12,60	12,60
40	13,00	13,25	13,50	13,75	13,90	14,00	14,05	14,10	14,15
45		14,65	14,95	15,20	15,45	15,50	15,65	15,70	15,80
50		16,20	16,50	16,80	17,05	17,15	17,30	17,45	17,55
55			18,25	18,55	18,85	19,00	19,15	19,30	19,45
60				20,50	20,90	21,00	21,20	21,40	21,50
65				22,80	23,10	23,20	23,40	23,60	23,80
70					25,60	25,70	25,90	26,10	26,30
Cond °C	Current 400V, A								
	-15	-10	-5	0	5	7	10	12,5	15
30	26,28	26,50	26,64	26,71	26,70	26,68	26,62	26,55	26,47
35	27,42	27,68	27,89	28,04	28,14	28,16	28,17	28,17	28,15
40	28,73	29,03	29,29	29,51	29,70	29,76	29,84	29,89	29,93
45		30,59	30,89	31,17	31,43	31,53	31,66	31,77	31,87
50		32,41	32,74	33,07	33,39	33,52	33,71	33,86	34,01
55			34,90	35,26	35,63	35,78	36,01	36,21	36,40
60				37,79	38,20	38,37	38,64	38,86	39,10
65				40,71	41,15	41,34	41,63	41,88	42,15
70					44,53	44,72	45,04	45,31	45,60
Cond °C	Mass Flow g/s								
	-15	-10	-5	0	5	7	10	12,5	15
30	187,00	230,00	281,00	337,00	401,00	428,00	471,00	509,00	548,00
35	186,00	230,00	280,00	338,00	402,00	430,00	473,00	512,00	552,00
40	185,00	229,00	280,00	337,00	403,00	431,00	475,00	514,00	555,00
45		227,00	278,00	336,00	402,00	430,00	475,00	515,00	556,00
50		226,00	276,00	335,00	401,00	429,00	475,00	515,00	557,00
55			275,00	333,00	399,00	428,00	473,00	514,00	556,00
60				331,00	397,00	426,00	472,00	512,00	555,00
65				330,00	395,00	424,00	470,00	511,00	554,00
70					394,00	423,00	468,00	509,00	553,00

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

Displacement @ 50 Hz, cu.m/h	87.5
Length/Width, mm	447/427
Height, mm	715
Net Weight, kg	176.9
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 3/8
Oil Quantity, l	6.3
Base mounting (hole dia), mm	266.7 x 266.7 (22.6)
Sound Pressure @ 1m (HT), dBA	76
Sound Power (HT), dBA	87
PED Category	2
Internal Free Volume, l	31.6
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	62.5
Locked Rotor Current, A	310
Winding Resistance, ohm	0.37
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
Mounting Grommets	Rubber Grommet For Single
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