Type: Semi-hermetic twin screw compressors
Producer: Frascold
Series: C-TSH

Model: C-TSH8-100 300 Y

Technical data

Nominal motor power [kW/HP]:	74 / 100
Displacement [m³/h]:	300
Capacity control [%]:	100 - 75 - 50
RPM [min^{-1}]:	1740
Weight net [kg]:	475
Weight gross [kg]:	510
Oil charge [dm³]:	19

Electrical data

	PWS
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	634
Locked rotor current (D.O.L. - ΔΔ) [A]:	1036
Max. operating current [A]:	216
Max. power input [kW]:	136

Connections

	milimeters	inches
Suction line:	80	3 1/8
Discharge line:	67	2 5/8

R22

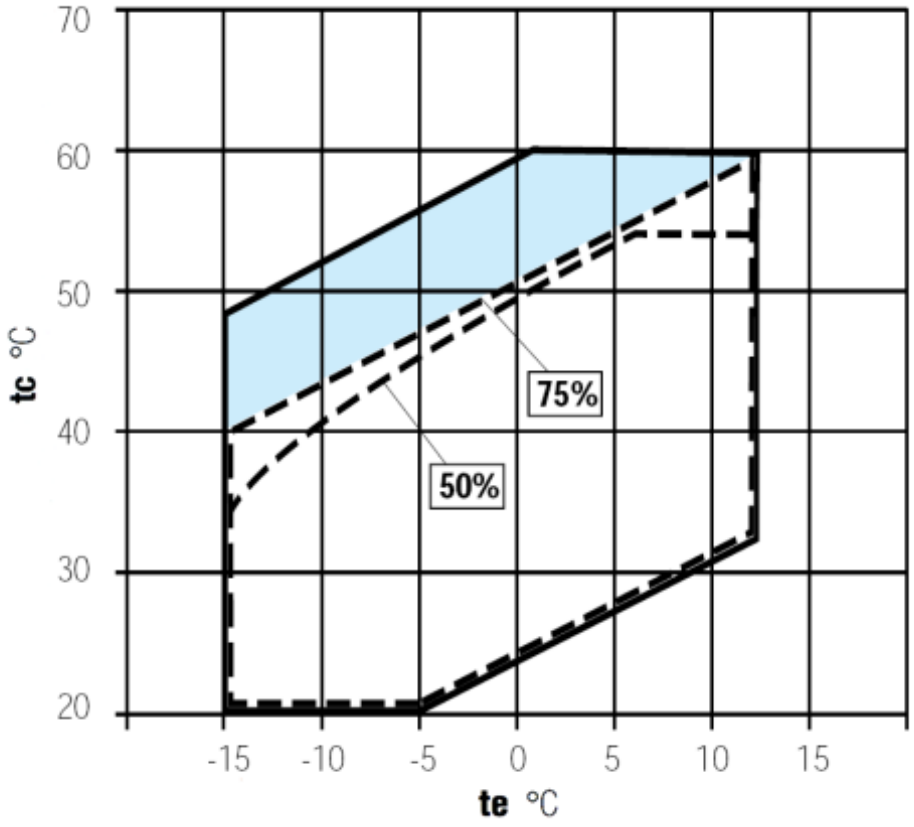
Cooling capacity [W]

t_c \ t_e	12.5	10	5	0	-5	-10	-15
30	-	-	312 490	262 520	218 820	180 810	147 650
40	360 550	332 030	280 110	234 510	194 660	159 960	129 860
50	318 390	292 790	246 210	205 320	169 620	138 550	-
55	296 620	272 680	229 090	190 810	157 370	-	-

Power input [W]

t_c \ t_e	12.5	10	5	0	-5	-10	-15
30	-	-	60.38	56.93	53.86	51.22	49.41
40	75.23	73.79	70.41	66.82	63.48	60.56	58.68
50	88.54	86.90	83.15	79.23	75.71	72.83	-
55	96.49	94.35	89.94	85.89	82.72	-	-

Application limits



With liquid injection or oil cooler

Operating conditions: suction gas overheating 10K, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

R407C

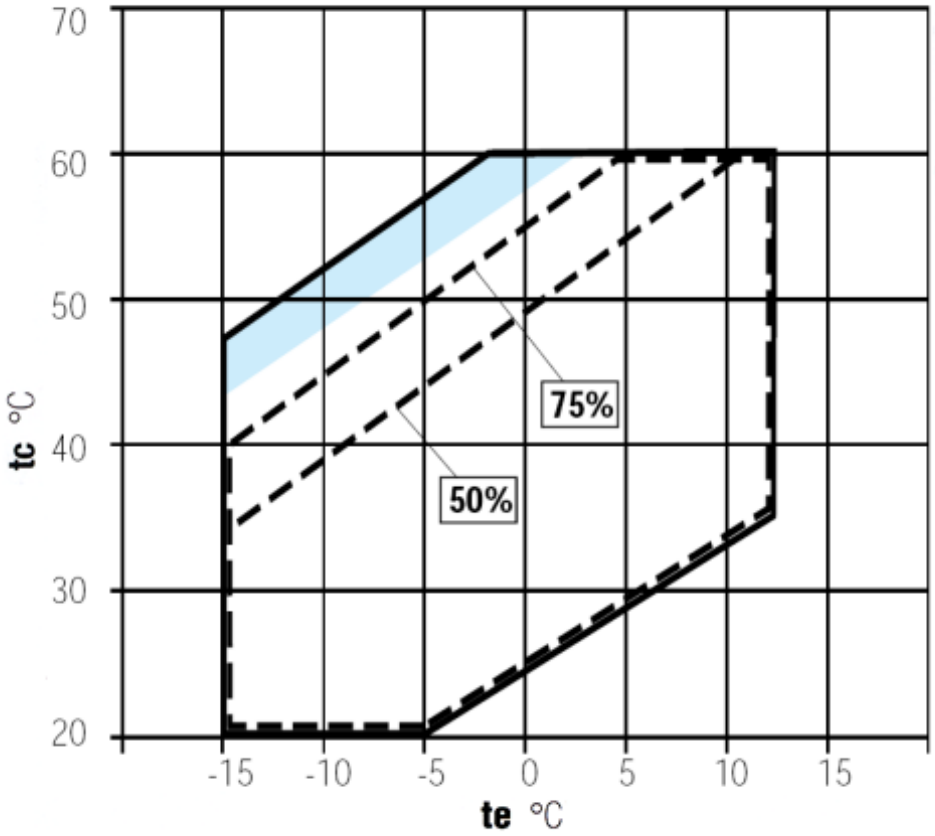
Cooling capacity [W]

t_c \ t_e	12.5	10	5	0	-5	-10	-15
30	-	-	294 320	246 360	205 110	169 570	139 360
40	340 770	312 780	262 430	218 980	181 580	149 580	122 370
50	299 350	274 490	229 810	191 290	158 180	129 890	-
55	277 730	254 690	213 280	177 580	146 900	-	-

Power input [W]

t_c \ t_e	12.5	10	5	0	-5	-10	-15
30	-	-	57.26	53.81	50.83	48.41	47.10
40	71.94	70.27	66.72	63.07	59.82	57.24	55.94
50	84.62	82.67	78.69	74.80	71.55	69.36	-
55	91.91	89.60	85.23	81.38	78.74	-	-

Application limits

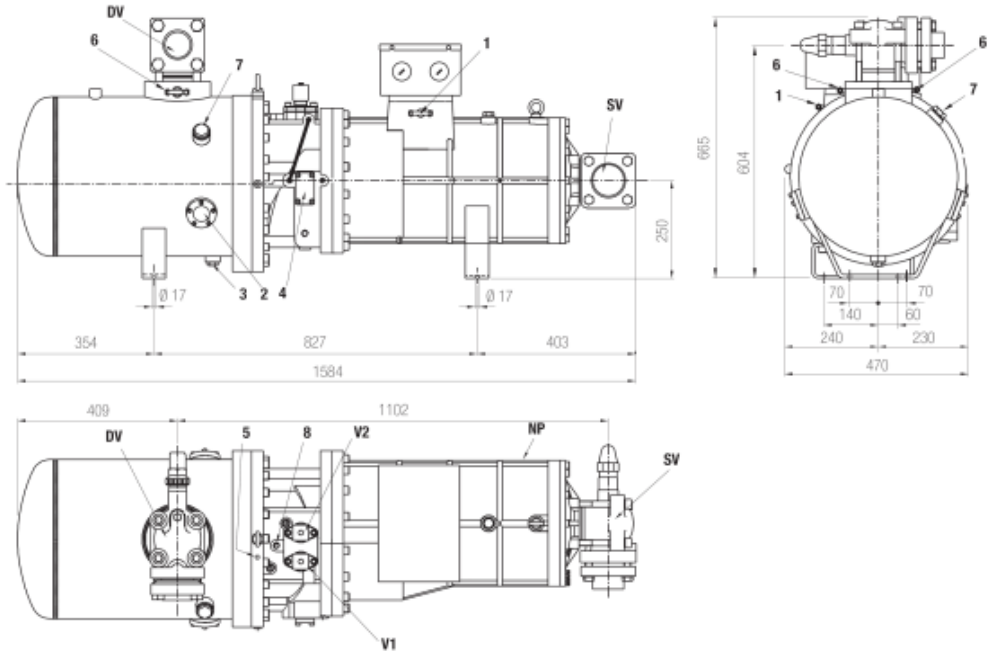


With liquid injection or oil cooler

Operating conditions: suction gas overheating 10K, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

Model: C-TSH8-100 300 Y

Dimensions



1:	low pressure connections	2:	oil level sight glass
3:	oil drain	4:	connections for remote oil cooler
5:	maximum discharge temperature sensor	6:	capacity control valve
6:	high pressure connections	7:	oil charge plug
8:	liquid injection/economizer connection	DV:	discharge valve
NP:	name plate	SV:	suction valve
V1:	capacity control valve 50%	V2:	capacity control valve 75%

Model: C-TSH8-100 300 Y

Image