

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-100 360 Y ECO

Technical data

Nominal motor power [kW/HP]:	74 / 100
Displacement [m ³ /h]:	360
Capacity control [%]:	100 - 75 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	490
Weight gross [kg]:	525
Oil charge [dm ³]:	19

Electrical data

	<u>PWS</u>
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

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

R134a

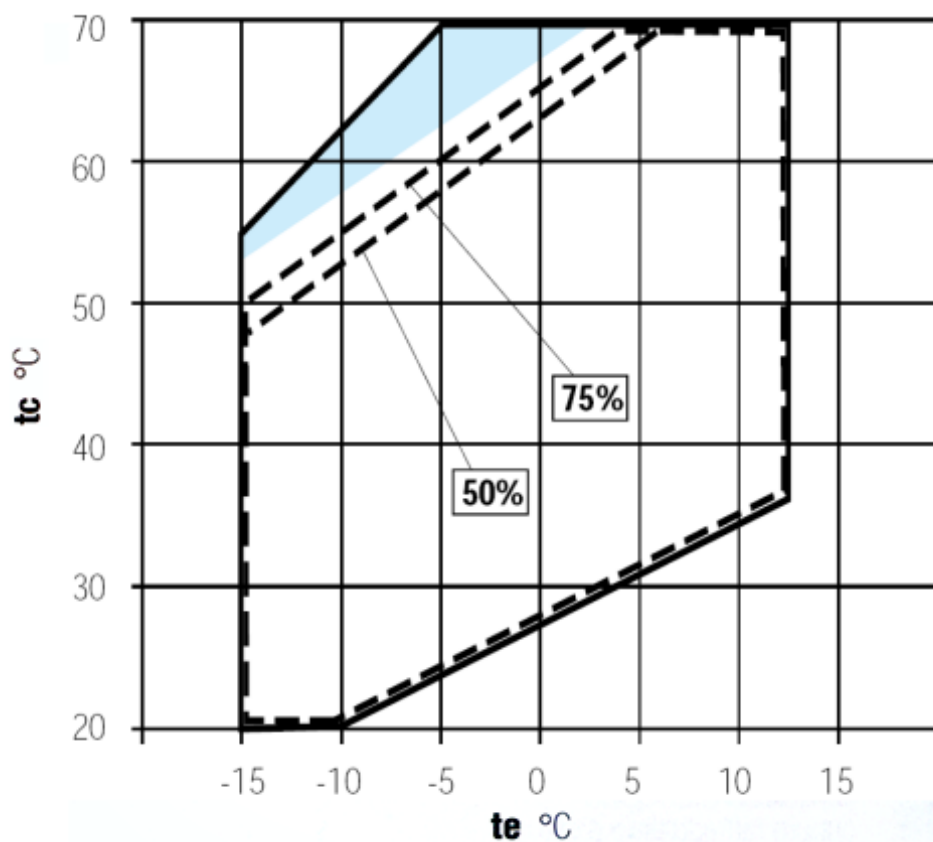
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	229 880	190 300	156 020	126 300
40	331 030	304 430	255 970	213 420	176 380	144 050	116 010
50	307 100	282 050	236 290	196 000	160 710	130 000	-
60	278 730	255 470	212 900	175 340	142 350	113 530	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	42.39	41.26	39.77	38.61
40	55.64	55.51	54.72	53.43	51.95	50.40	49.69
50	68.28	67.53	65.81	64.11	62.82	62.48	-
60	85.37	84.65	83.23	82.19	82.15	84.23	-

Application limits

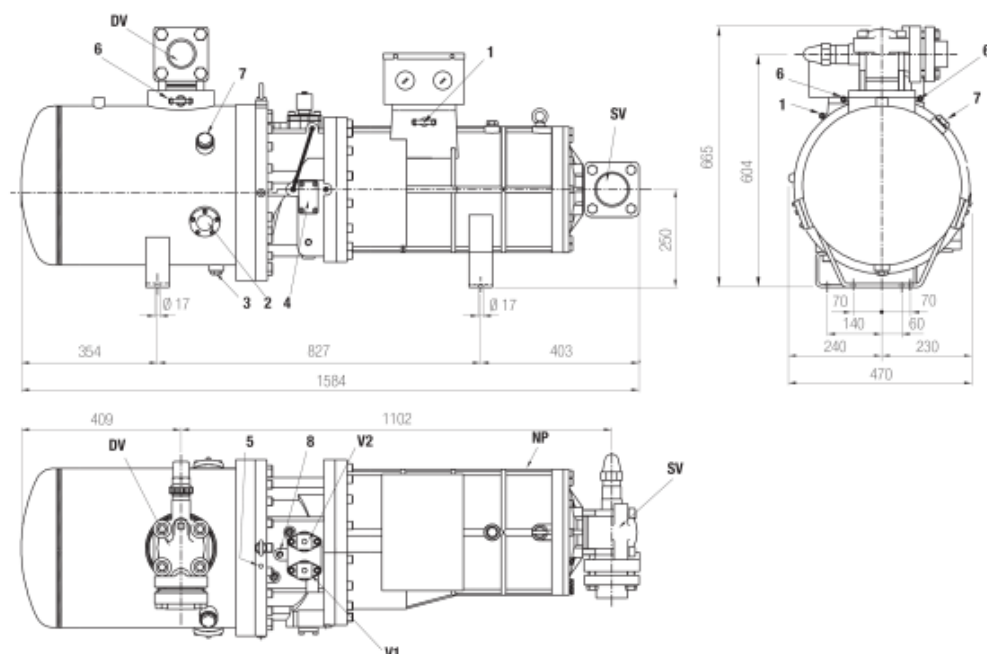


With liquid injection or oil cooler

Operating conditions: suction gas overheating 10K, 10K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



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|-----|--|-----|-----------------------------------|
| 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% |

