

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-100 360 Y

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

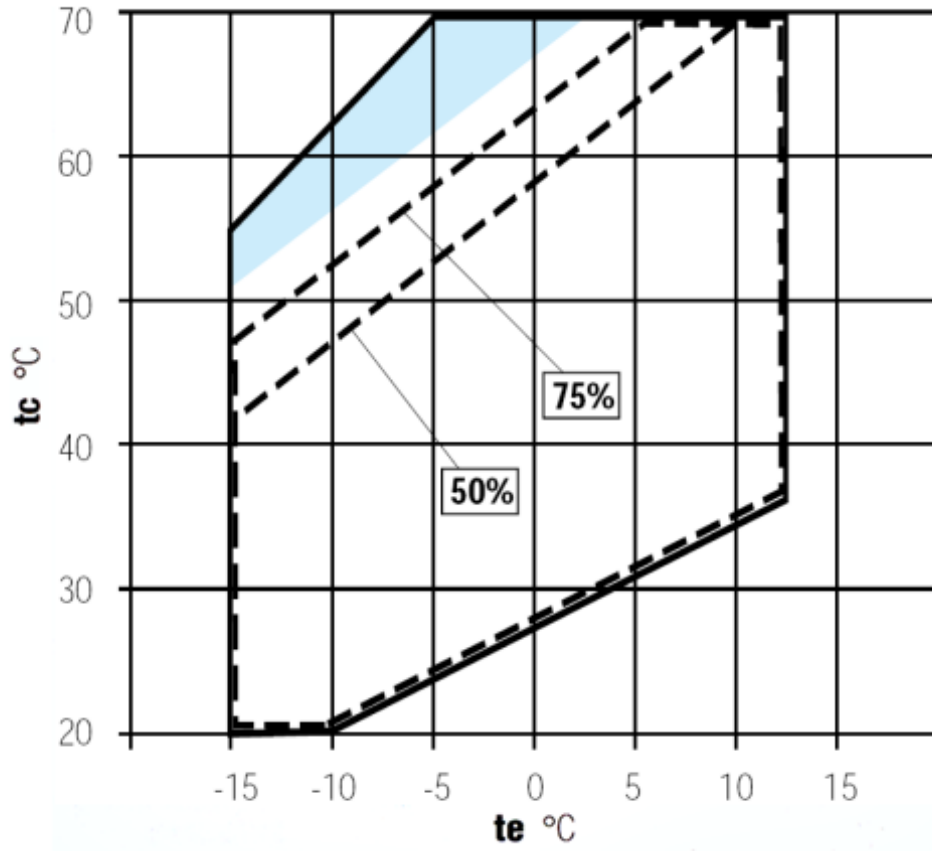
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	207 350	168 380	135 350	107 350
40	299 200	272 670	224 520	183 170	147 910	118 210	93 010
50	263 110	238 870	195 440	158 190	126 470	99 680	-
60	223 220	201 870	163 670	131 000	103 260	79 910	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	40.42	39.00	37.26	35.85
40	53.05	52.74	51.47	49.75	47.85	45.98	44.88
50	63.50	62.46	60.23	58.05	56.25	55.28	-
60	76.94	75.83	73.65	71.82	70.87	71.66	-

Application limits

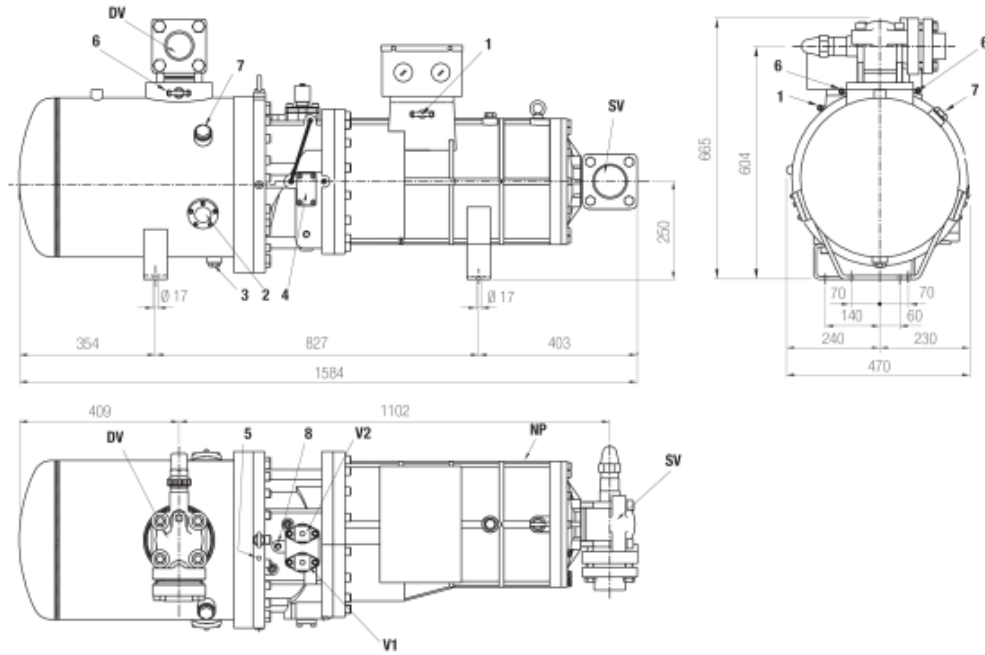


With liquid injection or oil cooler

Operating conditions: suction gas overheating 10K, 0K subcooling

t_c - Condensing temperature [$^{\circ}\text{C}$]

t_e - Evaporating temperature [$^{\circ}\text{C}$]



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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% |

