

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-90 300 Y

Technical data

Nominal motor power [kW/HP]:	66,5 / 90
Displacement [m ³ /h]:	300
Capacity control [%]:	100 - 75 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	475
Weight gross [kg]:	510
Oil charge [dm ³]:	19

Electrical data

	<u>PWS</u>
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	499
Locked rotor current (D.O.L. - $\Delta\Delta$) [A]:	814
Max. operating current [A]:	185
Max. power input [kW]:	116

Connections

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

R134a

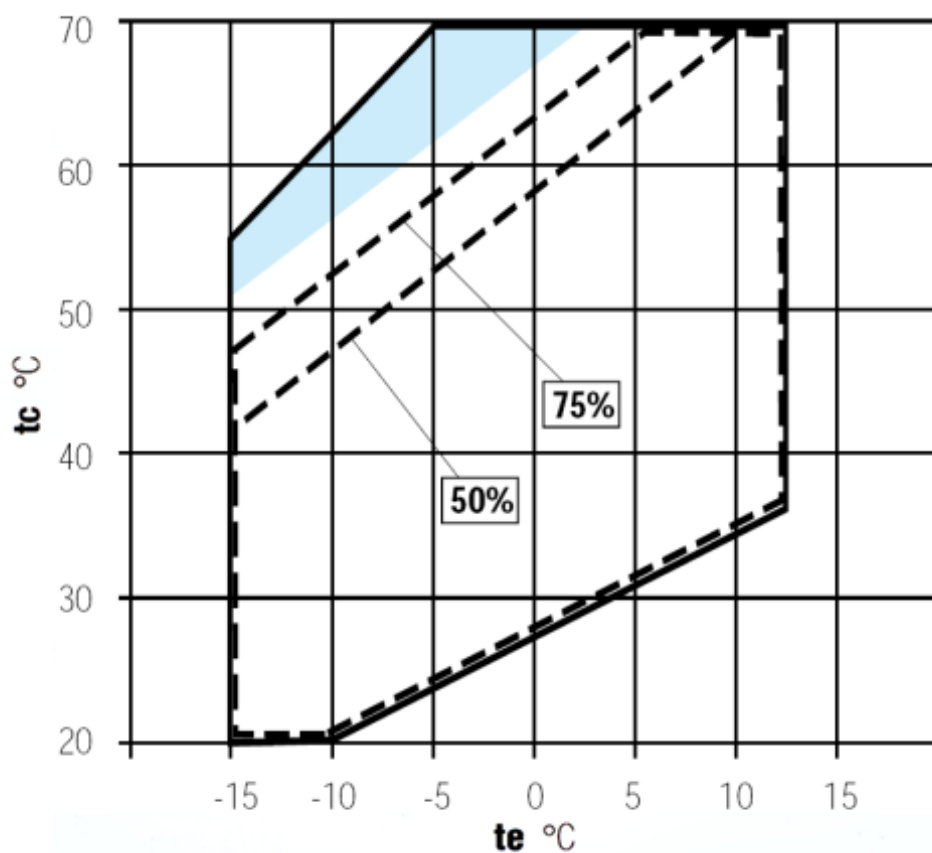
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	171 050	138 940	111 710	88 630
40	247 040	224 930	185 270	151 200	122 200	97 520	76 670
50	216 930	196 940	161 130	130 440	104 310	82 260	-
60	184 110	166 500	135 000	108 060	85 210	65 980	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	35.92	34.47	32.81	31.55
40	46.30	45.78	44.36	42.66	40.95	39.36	38.73
50	55.45	54.84	53.33	51.63	49.97	48.50	-
60	67.13	66.37	64.76	63.23	62.08	61.69	-

Application limits

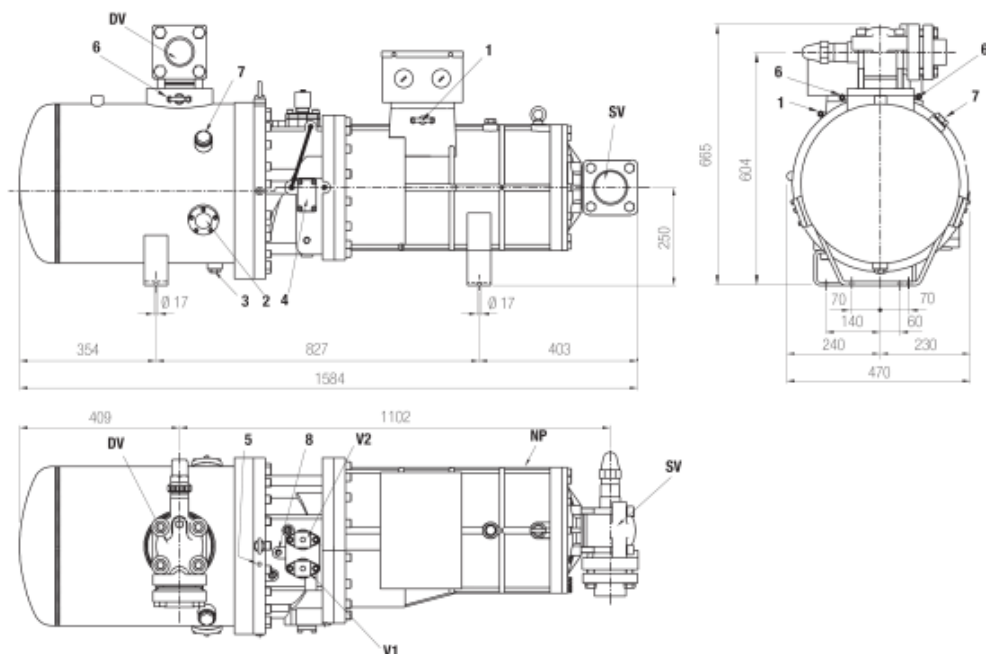


With liquid injection or oil cooler

Operating conditions: suction gas overheating 10K, 0K 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% |

