

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-30 120 Y

Technical data

Nominal motor power [kW/HP]:	22 / 30
Displacement [m ³ /h]:	120
Capacity control [%]:	100 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	290
Weight gross [kg]:	308
Oil charge [dm ³]:	9

Electrical data

	<u>PWS</u>
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	194
Locked rotor current (D.O.L. - ΔΔ) [A]:	322
Max. operating current [A]:	68
Max. power input [kW]:	43

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	54	2 1/8
Discharge line:	42	1 5/8

R134a

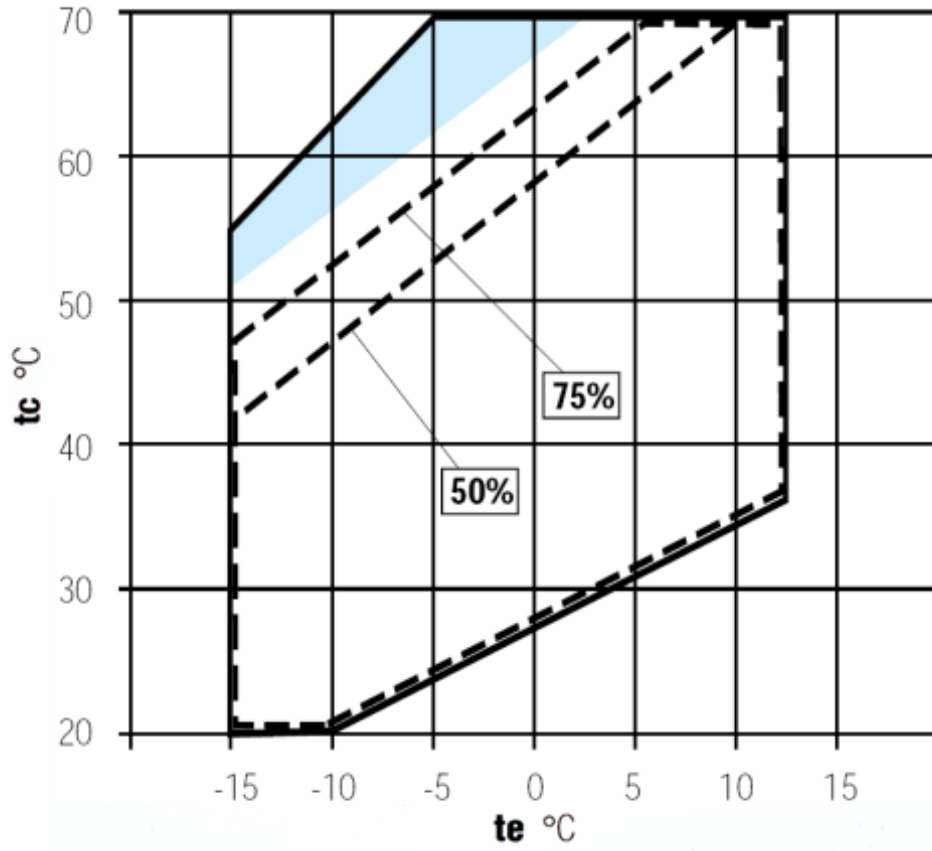
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	69 700	56 600	45 500	36 140
40	100 200	91 220	75 120	61 300	49 510	39 530	31 080
50	87 150	79 120	64 720	52 370	41 850	32 960	-
60	73 210	66 180	53 620	42 870	33 760	26 080	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	15.10	14.71	14.13	13.60
40	19.76	19.61	19.10	18.41	17.64	16.82	16.22
50	23.74	23.37	22.55	21.74	21.05	20.63	-
60	27.84	27.57	26.98	26.43	26.02	25.87	-

Application limits

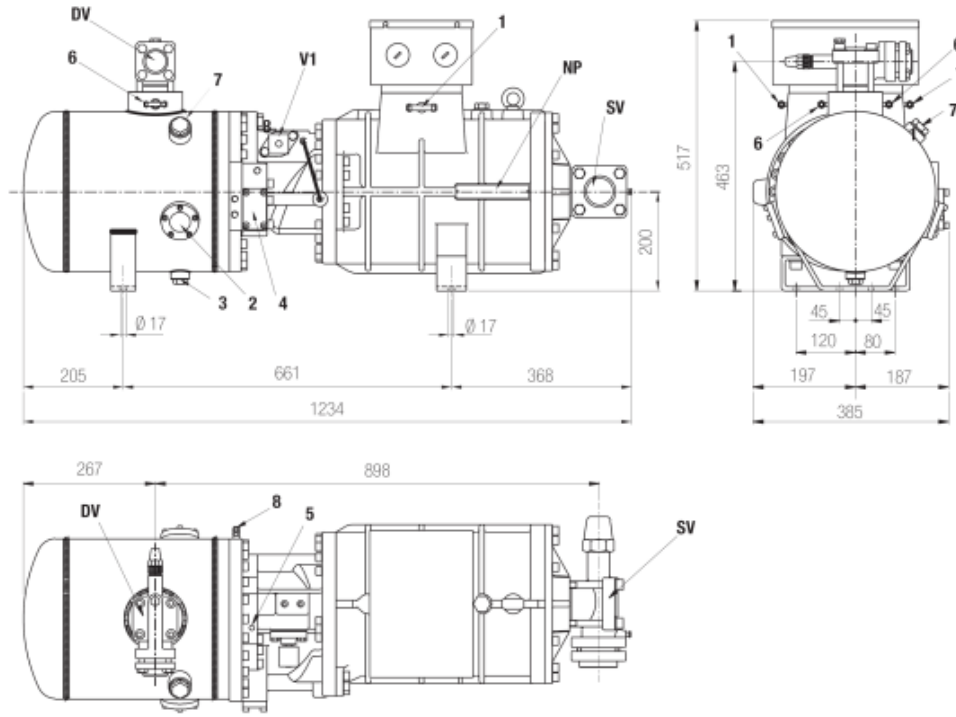


With liquid injection or oil cooler

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% |

