

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-40 150 Y

Technical data

Nominal motor power [kW/HP]:	30 / 40
Displacement [m ³ /h]:	150
Capacity control [%]:	100 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	310
Weight gross [kg]:	333
Oil charge [dm ³]:	9

Electrical data

	<u>PWS</u>
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	218
Locked rotor current (D.O.L. - ΔΔ) [A]:	360
Max. operating current [A]:	85
Max. power input [kW]:	54

Connections

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

R134a

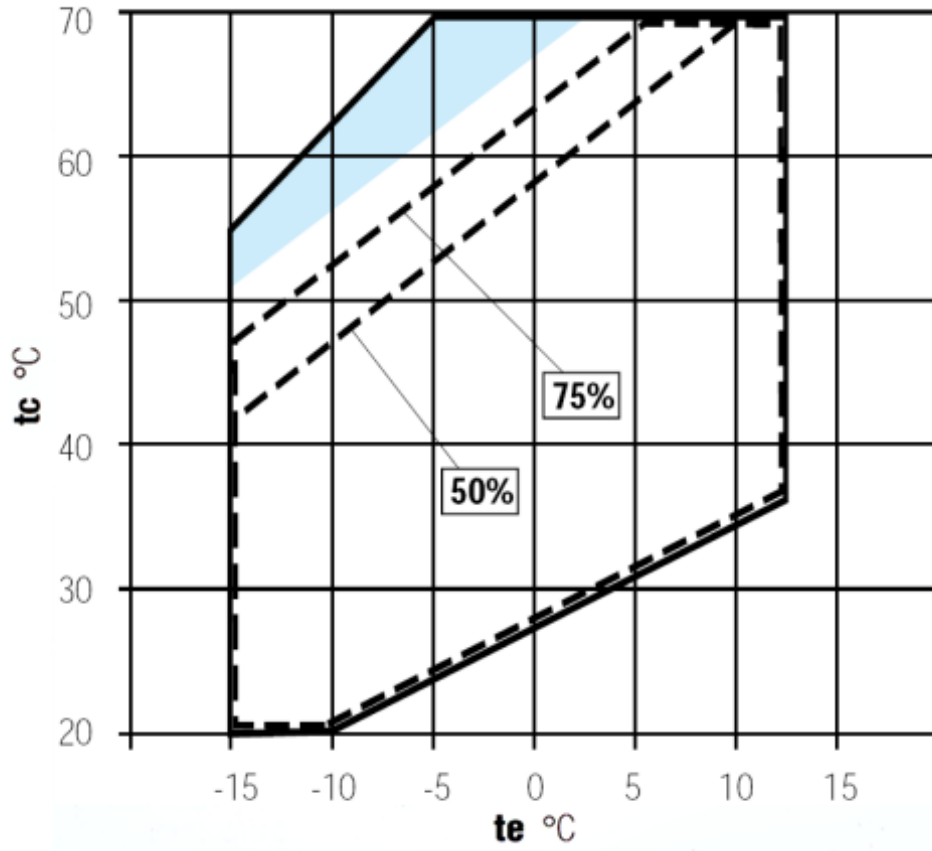
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	86 750	70 440	56 670	44 980
40	124 800	113 620	93 570	76 350	61 650	49 200	38 670
50	108 640	98 630	80 680	65 300	52 200	41 150	-
60	91 230	82 490	66 860	53 500	42 150	32 610	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	18.44	17.76	16.97	16.37
40	23.38	23.12	22.42	21.61	20.78	20.03	19.77
50	27.56	27.25	26.51	25.70	24.90	24.21	-
60	33.17	32.77	31.92	31.13	30.53	30.43	-

Application limits

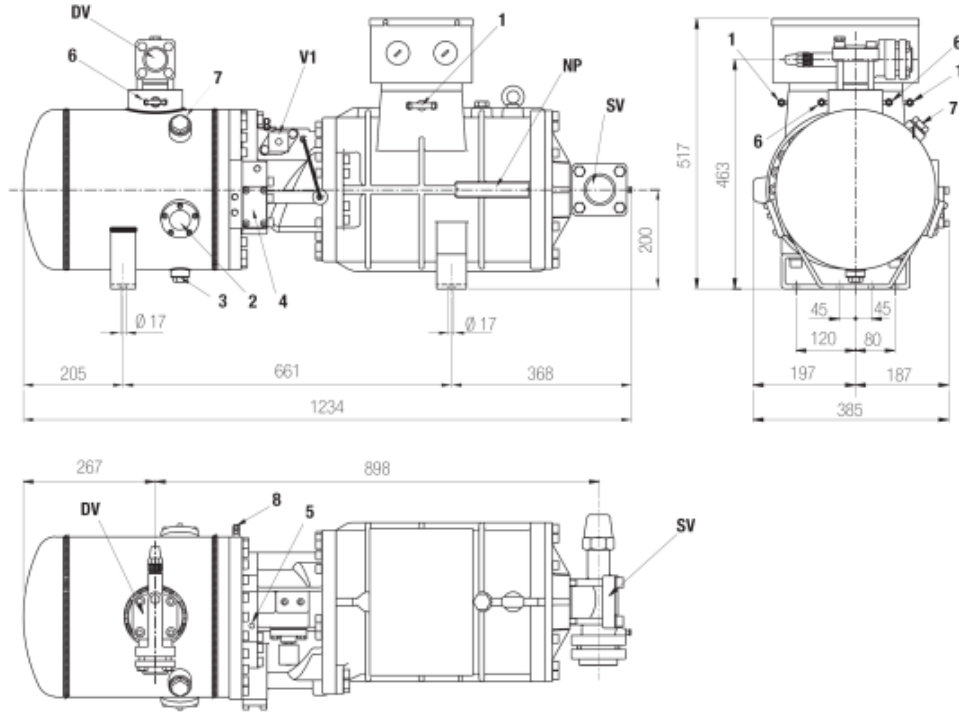


With liquid injection or oil cooler

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% |

