

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-60 210 Y

Technical data

Nominal motor power [kW/HP]:	44,5 / 60
Displacement [m ³ /h]:	210
Capacity control [%]:	100 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	400
Weight gross [kg]:	430
Oil charge [dm ³]:	9

Electrical data

	<u>PWS</u>
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	283
Locked rotor current (D.O.L. - ΔΔ) [A]:	464
Max. operating current [A]:	126
Max. power input [kW]:	76

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	80	3 1/8
Discharge line:	54	2 1/8

R134a

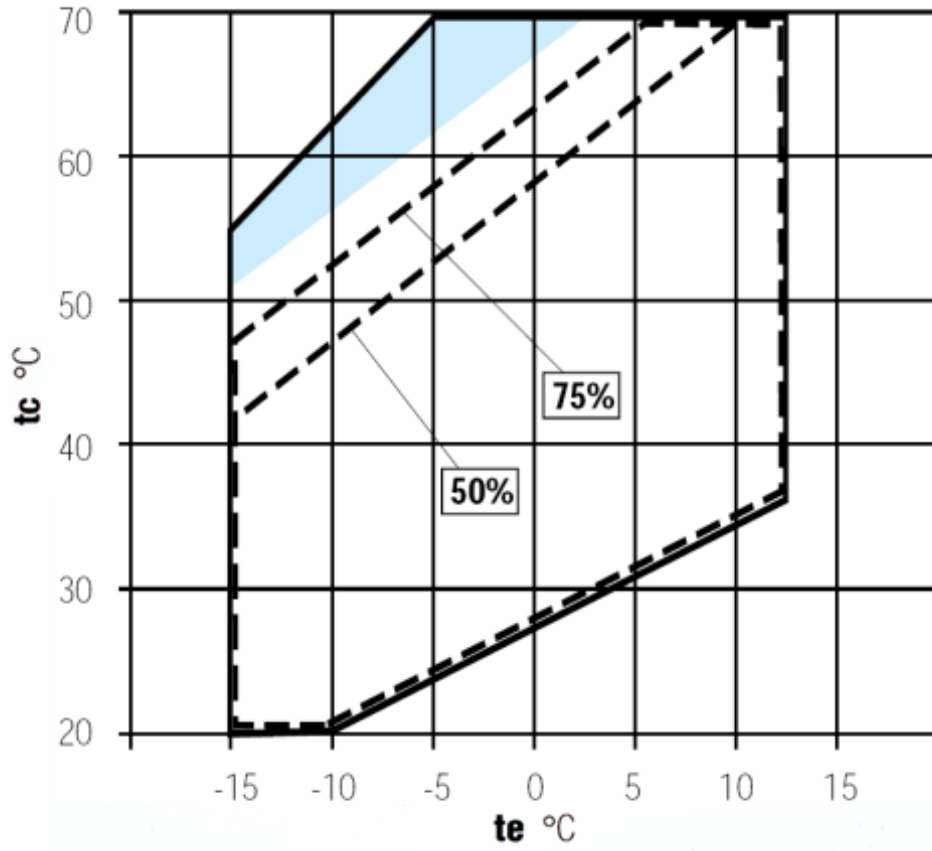
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	119 980	97 560	78 420	62 220
40	173 030	157 550	129 800	105 960	85 620	68 400	53 810
50	151 890	137 910	112 860	91 370	73 060	57 580	-
60	128 850	116 540	94 500	75 630	59 570	46 030	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	23.39	22.81	22.00	21.38
40	30.71	30.45	29.66	28.66	27.62	26.66	26.31
50	37.46	36.84	35.50	34.19	33.12	32.55	-
60	44.48	43.66	42.15	41.06	40.83	42.38	-

Application limits

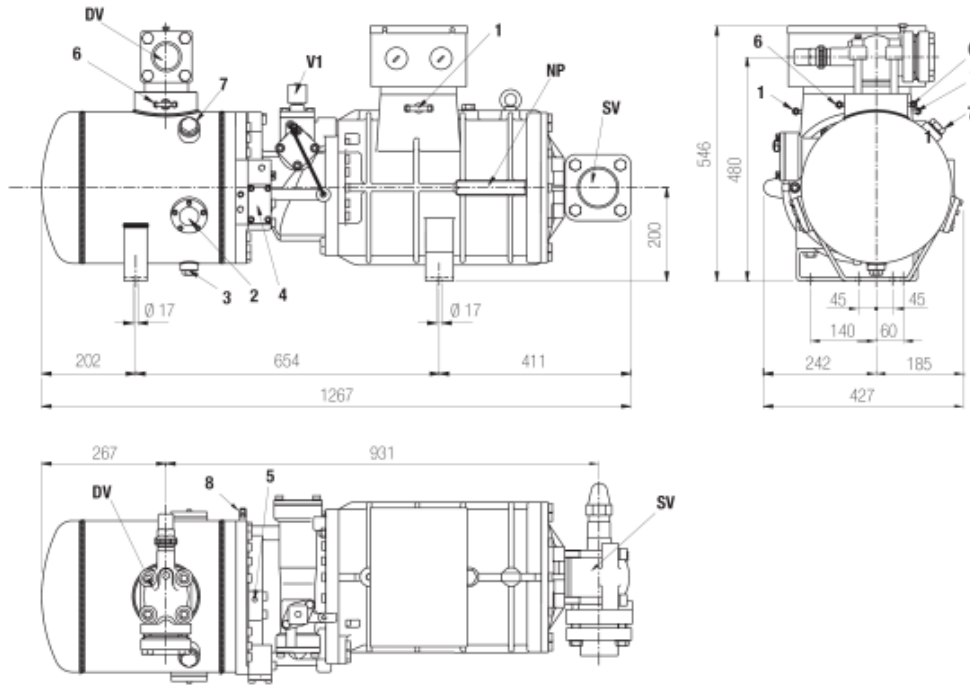


With liquid injection or oil cooler

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% |

