

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-60 210 Y ECO

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

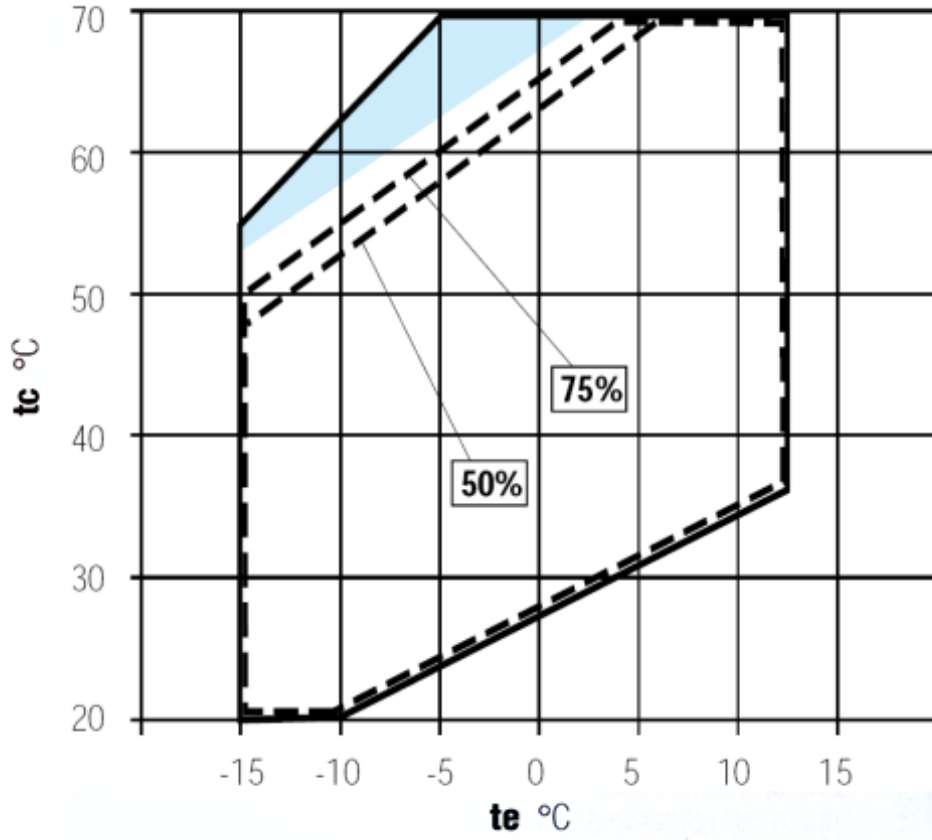
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	132 980	110 130	90 340	73 190
40	191 390	176 010	148 010	123 420	101 940	83 290	67 070
50	177 160	162 720	136 350	113 120	92 760	75 030	-
60	160 700	147 300	122 770	101 080	81 990	65 210	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	24.55	24.13	23.49	23.05
40	32.23	32.10	31.56	30.79	29.96	29.23	29.15
50	40.38	39.92	38.88	37.87	37.10	36.90	-
60	49.54	48.93	47.84	47.21	47.58	50.12	-

Application limits

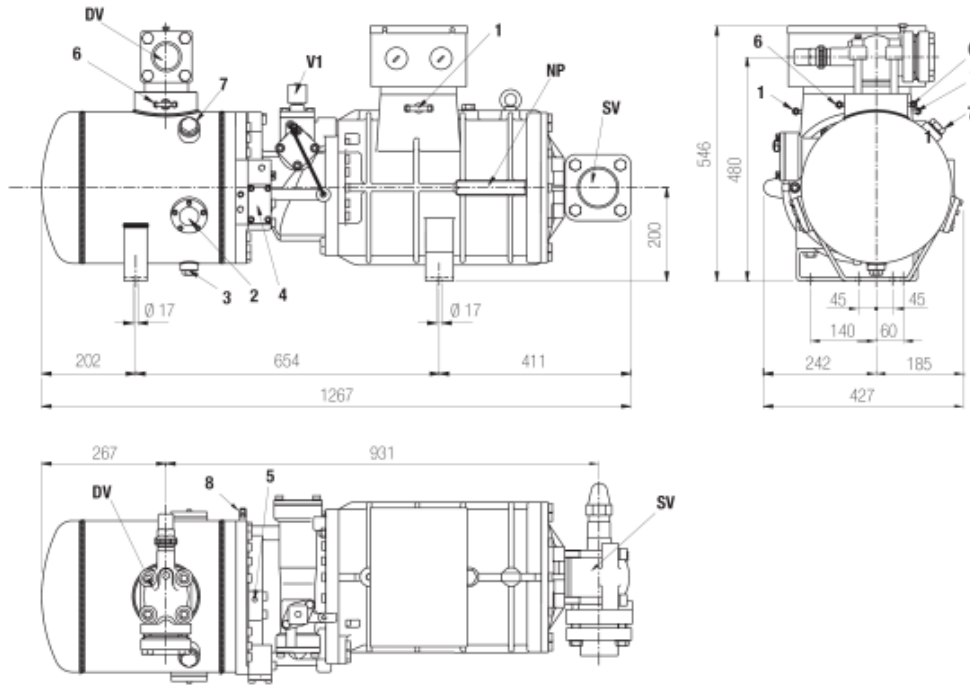


With liquid injection or oil cooler

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

