

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-50 186 Y ECO

Technical data

Nominal motor power [kW/HP]:	37 / 50
Displacement [m ³ /h]:	186
Capacity control [%]:	100 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	318
Weight gross [kg]:	343
Oil charge [dm ³]:	9

Electrical data

	<u>PWS</u>
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	243
Locked rotor current (D.O.L. - ΔΔ) [A]:	399
Max. operating current [A]:	108
Max. power input [kW]:	65

Connections

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

R134a

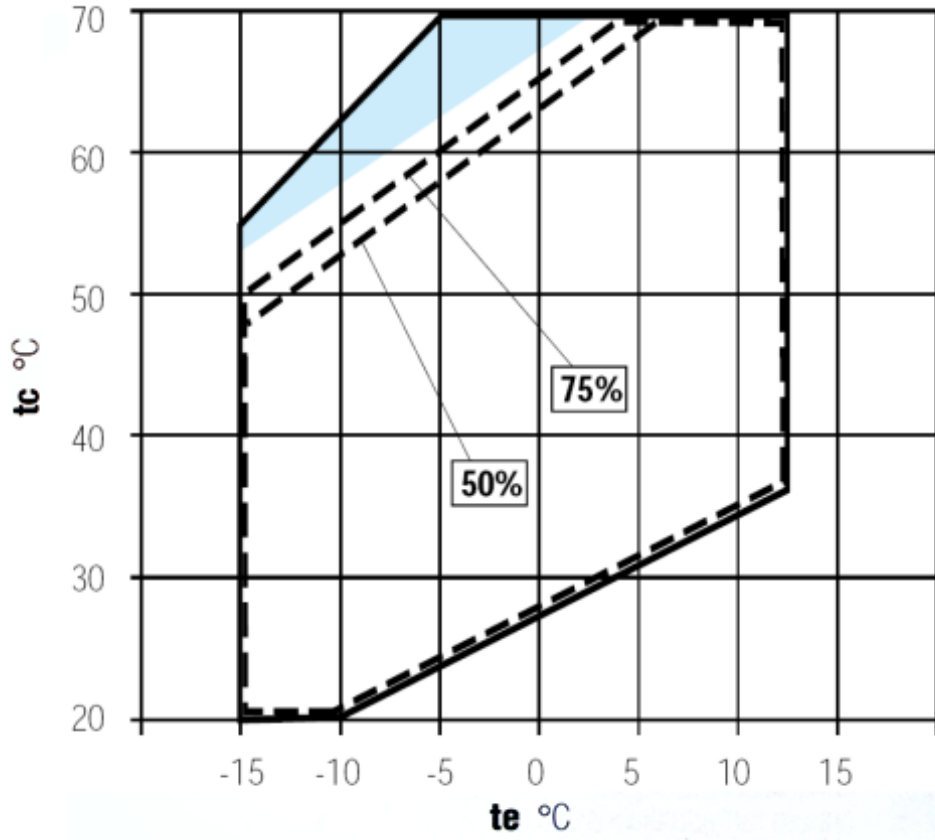
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	118 150	97 920	80 390	65 810
40	169 480	155 840	131 010	109 200	90 150	73 610	59 210
50	155 690	142 970	119 740	99 300	81 390	65 800	-
60	139 370	127 710	106 360	87 500	70 910	56 450	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	23.22	22.56	21.76	21.23
40	30.02	29.87	29.27	28.45	27.53	26.67	26.32
50	36.74	36.45	35.70	34.87	34.14	33.73	-
60	45.26	44.87	44.14	43.70	43.96	45.82	-

Application limits

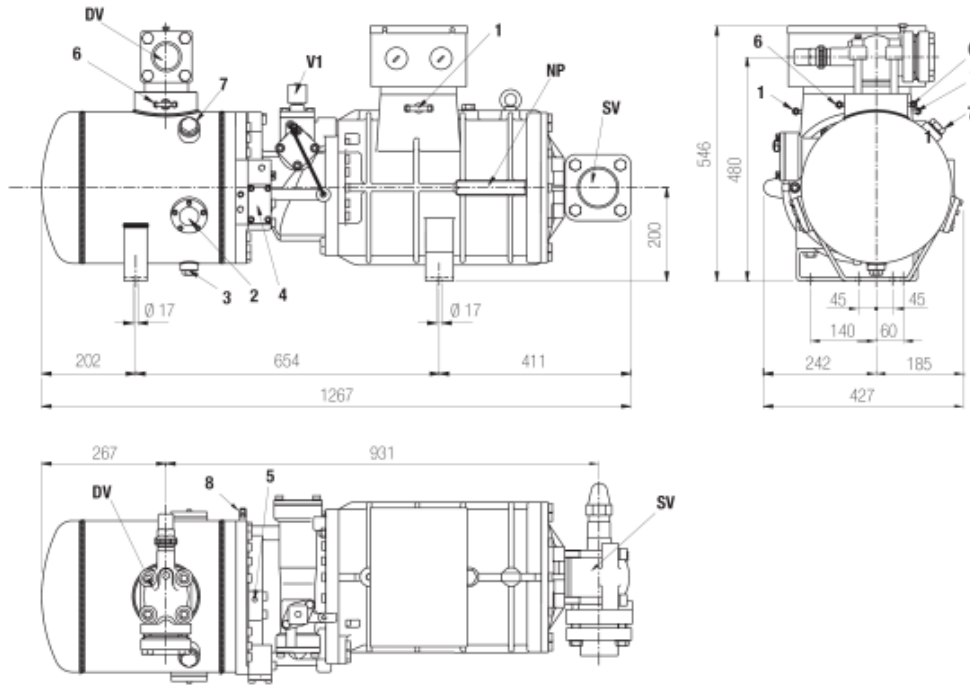


With liquid injection or oil cooler

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% |

