

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-50 186 Y

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

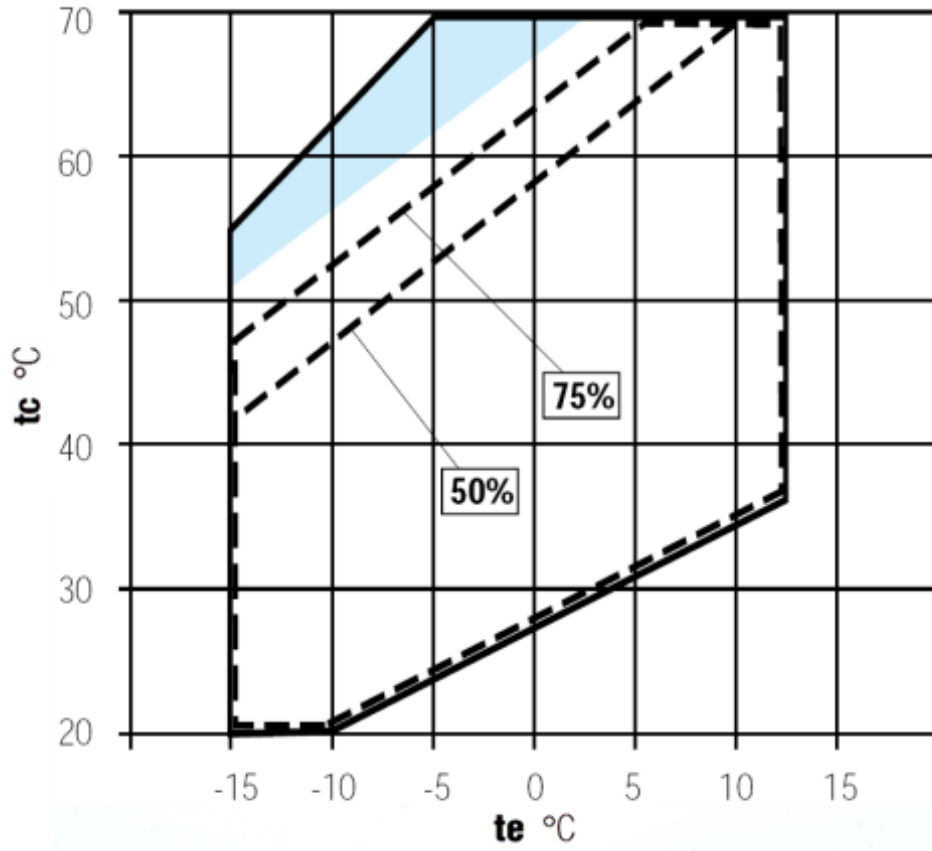
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	106 600	86 670	69 760	55 420
40	153 240	139 520	114 910	93 770	75 730	60 450	47 510
50	133 500	121 190	99 140	80 230	64 120	50 510	-
60	111 780	101 070	81 900	65 490	51 540	39 790	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	22.16	21.35	20.42	19.75
40	28.59	28.31	27.49	26.47	25.42	24.40	23.85
50	34.05	33.60	32.55	31.45	30.45	29.71	-
60	40.52	39.92	38.77	37.88	37.60	38.55	-

Application limits

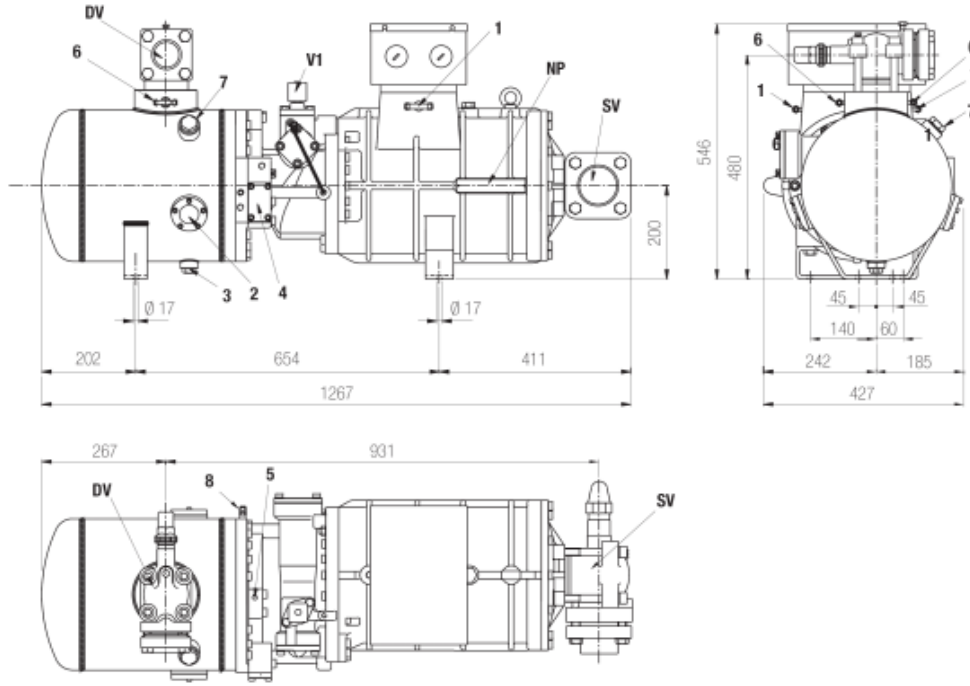


With liquid injection or oil cooler

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% |

