

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-80 270 Y

Technical data

Nominal motor power [kW/HP]:	60 / 80
Displacement [m ³ /h]:	270
Capacity control [%]:	100 - 75 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	433
Weight gross [kg]:	465
Oil charge [dm ³]:	13

Electrical data

	<u>PWS</u>
Power supply [V/~ /Hz]:	400/3/50
Locked rotor current [A]:	398
Locked rotor current (D.O.L. - ΔΔ) [A]:	653
Max. operating current [A]:	170
Max. power input [kW]:	104

Connections

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

R134a

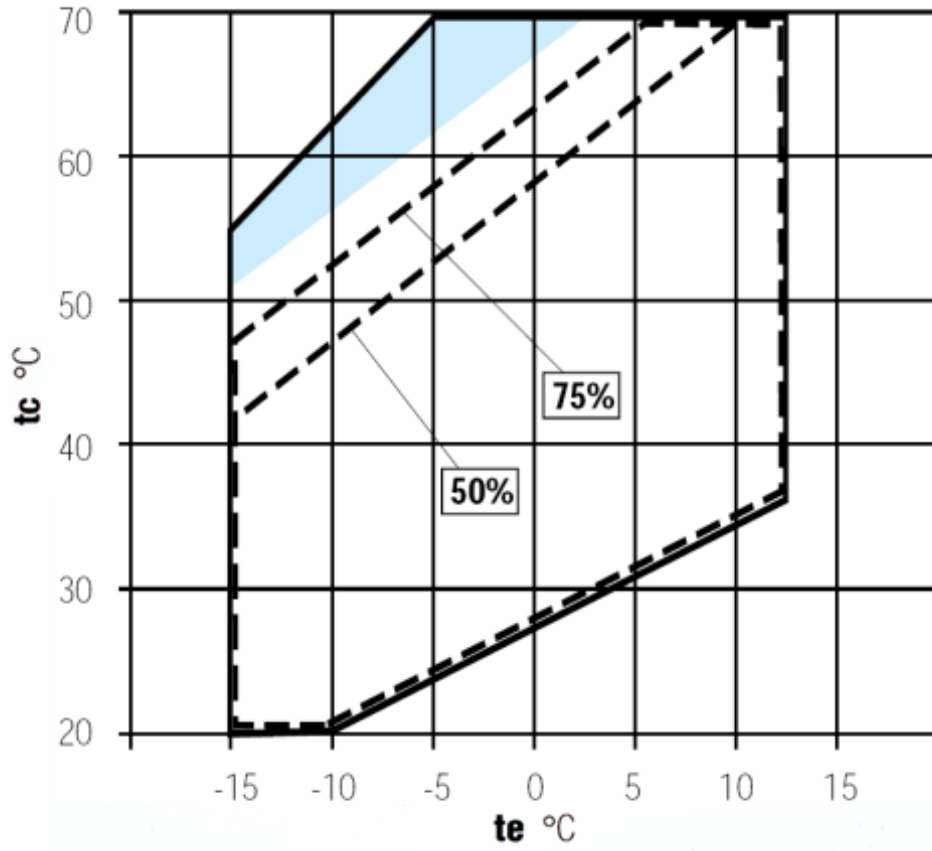
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	154 860	125 910	101 150	80 190
40	223 260	203 300	167 510	136 760	110 520	88 290	69 470
50	196 100	178 030	145 660	117 920	94 300	74 350	-
60	166 120	150 230	121 820	97 520	76 890	59 530	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	32.55	31.29	29.76	28.59
40	41.82	41.35	40.08	38.53	36.97	35.60	35.17
50	50.07	49.53	48.19	46.67	45.16	43.83	-
60	60.55	59.84	58.35	56.97	55.97	55.75	-

Application limits

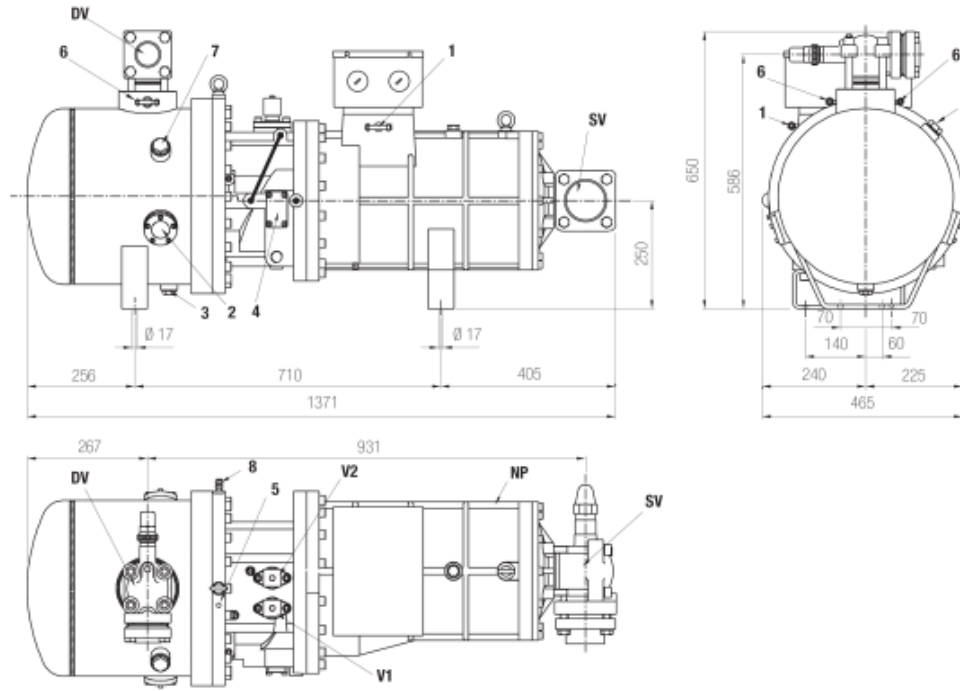


With liquid injection or oil cooler

Operating conditions: suction gas overheating 10K, 0K subcooling

t_c - Condensing temperature [$^{\circ}\text{C}$]

t_e - Evaporating temperature [$^{\circ}\text{C}$]



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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% |

