

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-70 240 Y ECO

Technical data

Nominal motor power [kW/HP]:	52 / 70
Displacement [m ³ /h]:	240
Capacity control [%]:	100 - 75 - 50
RPM [min ⁻¹]:	1740
Weight net [kg]:	411
Weight gross [kg]:	446
Oil charge [dm ³]:	13

Electrical data

	<u>PWS</u>
Power supply [V/~/Hz]:	400/3/50
Locked rotor current [A]:	333
Locked rotor current (D.O.L. - $\Delta\Delta$) [A]:	546
Max. operating current [A]:	148
Max. power input [kW]:	90

Connections

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

R134a

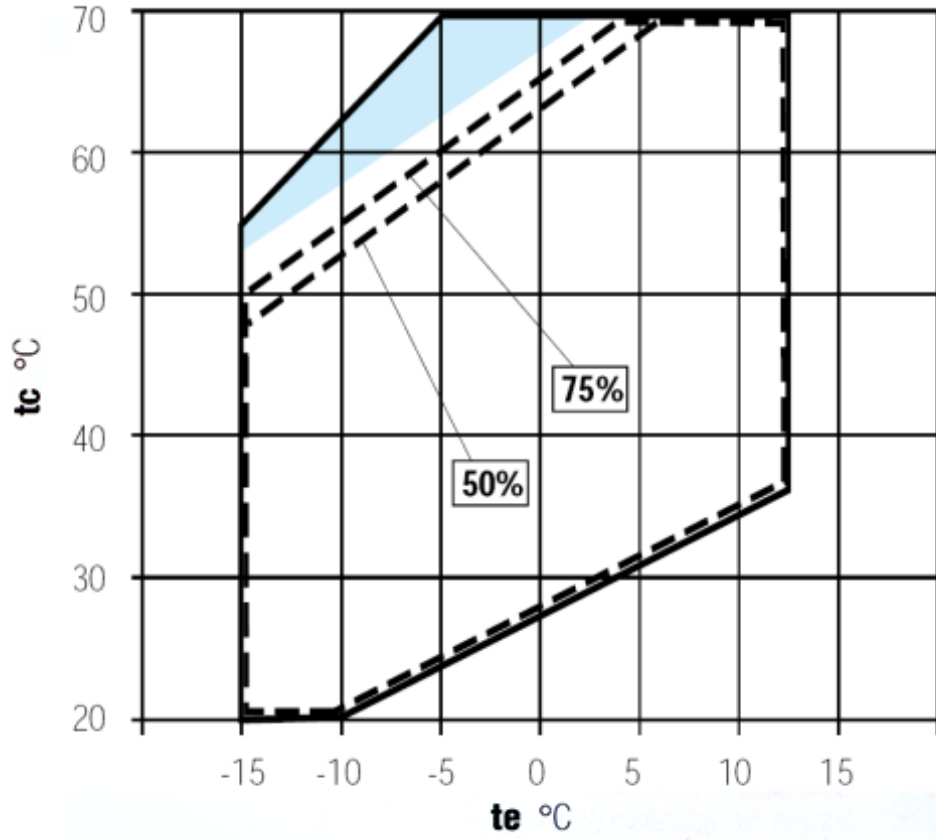
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	152 400	126 200	103 480	83 760
40	219 140	201 530	169 450	141 270	116 650	95 270	76 670
50	202 640	186 090	155 900	129 330	106 070	85 840	-
60	183 790	168 440	140 190	115 410	93 630	74 650	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	-	30.93	29.85	28.84	28.51
40	39.98	39.74	38.95	37.90	36.82	35.92	35.94
50	49.46	49.24	48.50	47.52	46.51	45.62	-
60	61.31	60.97	60.24	59.87	60.27	62.42	-

Application limits

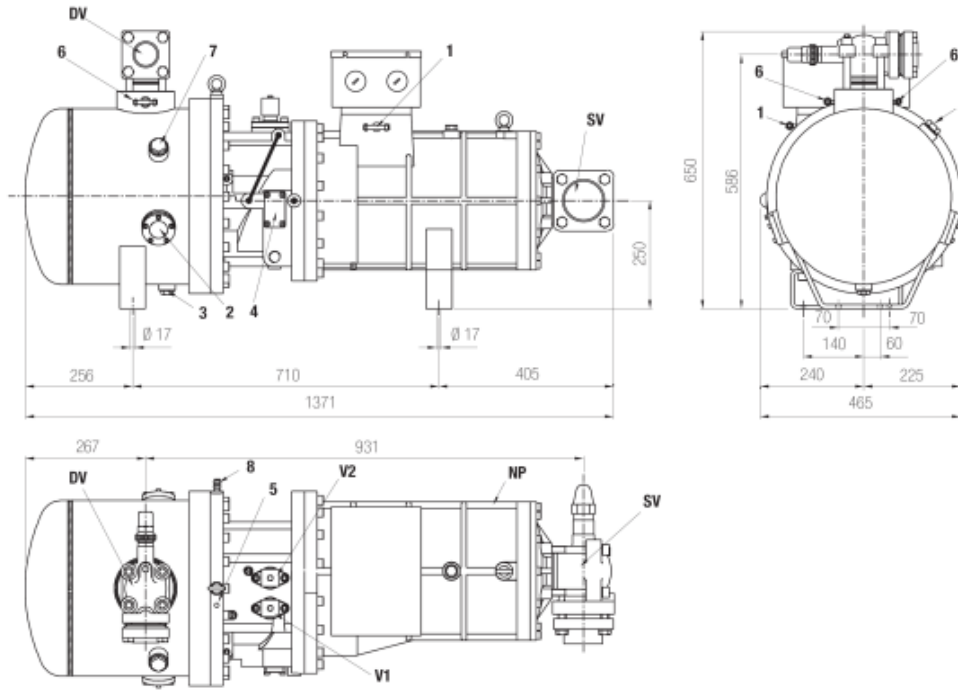


With liquid injection or oil cooler

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% |

