

Type: Semi-hermetic twin screw compressors

Producer: Frascold

Series: C-TSH

Model: C-TSH8-60 186 Y

Technical data

Nominal motor power [kW/HP]:	44,5 / 60
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]:	283
Locked rotor current (D.O.L. - $\Delta\Delta$) [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

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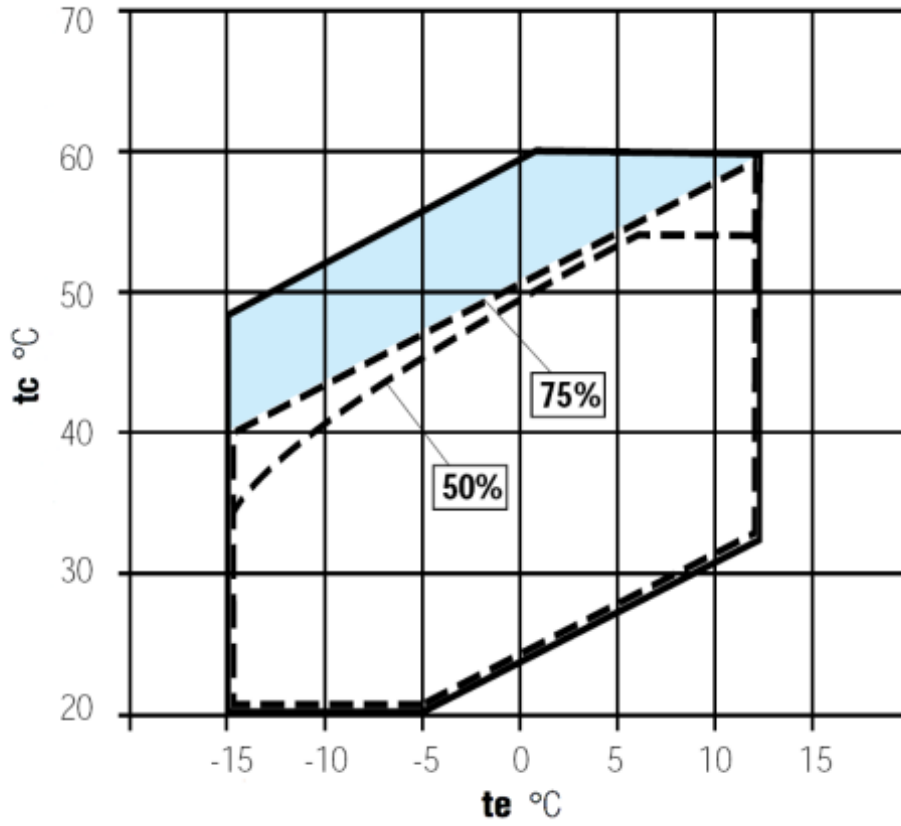
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	190 140	160 550	134 620	111 980	92 280
40	221 770	204 640	173 460	146 070	122 130	101 260	83 130
50	196 760	181 200	152 910	128 070	106 370	87 470	-
55	183 360	168 670	141 930	118 340	97 840	-	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	35.27	33.51	32.33	31.81	32.55
40	44.13	43.44	41.77	39.98	38.38	37.10	36.60
50	51.34	50.63	48.92	47.10	45.54	44.45	-
55	56.19	55.32	53.44	51.69	50.58	-	-

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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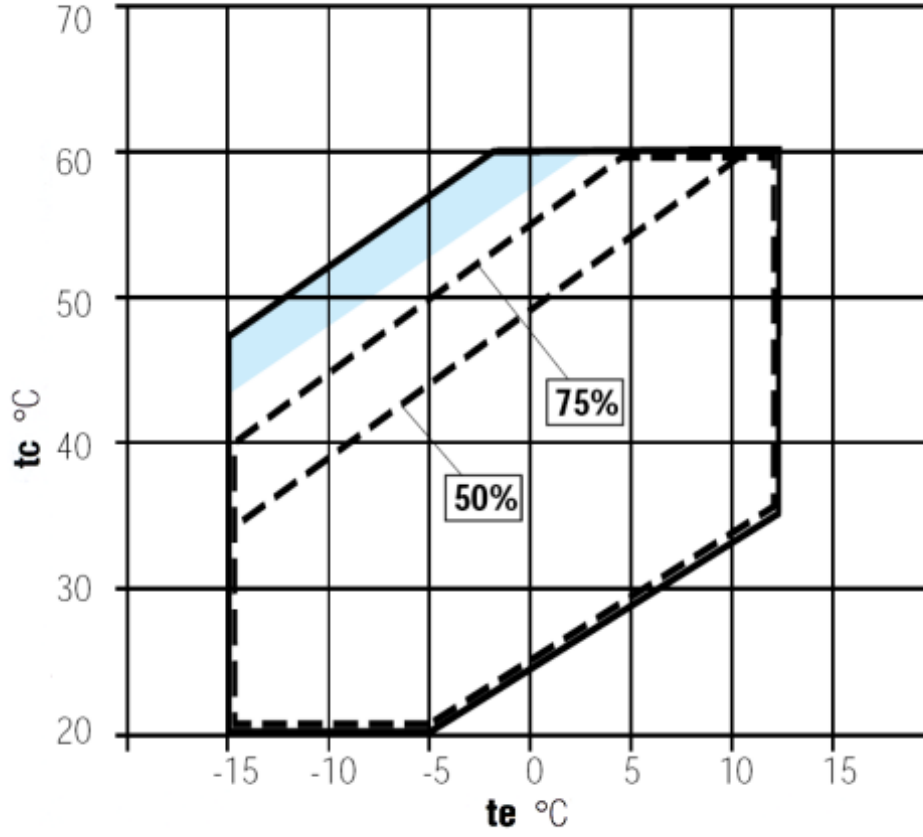
Cooling capacity [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	179 080	150 590	125 980	104 870	86 830
40	209 440	192 590	162 310	136 180	116 680	94 420	78 020
50	185 170	170 060	142 890	119 470	99 320	82 080	-
55	171 340	157 100	131 820	109 990	91 200	-	-

Power input [W]

$t_c \setminus t_e$	12.5	10	5	0	-5	-10	-15
30	-	-	33.62	31.88	30.72	30.32	31.30
40	41.76	41.80	39.52	37.81	36.28	35.13	34.74
50	49.05	48.19	46.40	44.65	43.32	42.72	-
55	53.50	52.42	50.60	49.24	48.92	-	-

Application limits

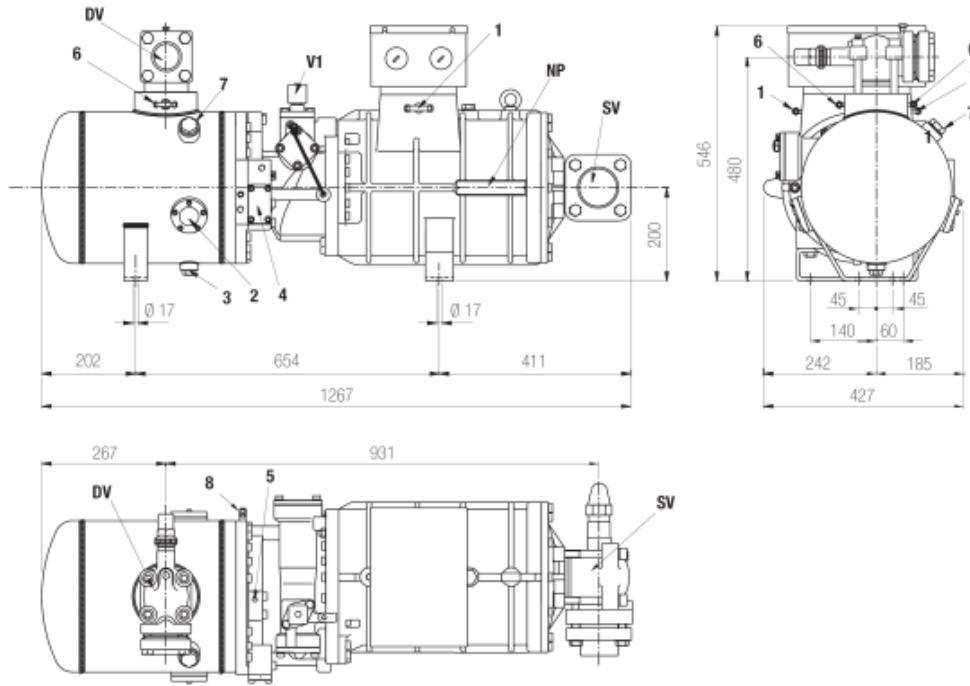


With liquid injection or oil cooler

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% |

