

Type: Semi-hermetic piston two stage compressors

Producer: Frascold

Series: S,V,Z

Model: S 5 26 16 Y SBC

Technical data

	<u>stage I</u>	<u>stage II</u>
Cylinder bore [mm]:	62	50
Cylinder count:	2	2
Displacement [m ³ /h]:	25,22	16,4
Cylinder capacity [cm ³]:	144,92	94,25
Nominal motor power [kW]:		4
Nominal motor power [HP]:		5,5
Cylinder stroke [mm]:		48
RPM [min ⁻¹]:		1450
Oil charge [dm ³]:		3,3
Weight net [kg]:		120
Weight gross [kg]:		131
Packing volume [dm ³]:		285

Electrical data

	<u>DOL Y Y</u>	<u>PWS Y / YY</u>
Power supply [V/~/Hz]:	400/3/50	400/3/50
Locked rotor current [A]:	57,8	35,5
Max. operating current [A]:	14	14

Connections

	<u>milimeters</u>	<u>inches</u>
Króciec ssawny:	35	1 3/8"
Discharge line:	22,2	7/8"

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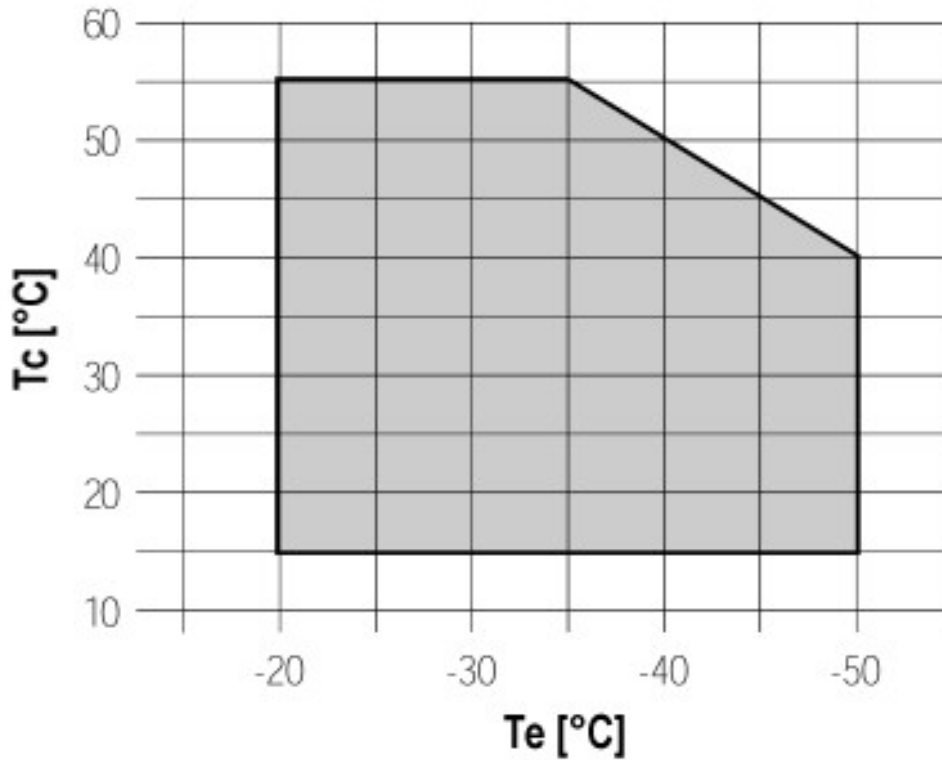
Cooling capacity [W]

$t_c \setminus t_e$	-20	-25	-30	-35	-40	-45	-50
30	13 450	11 030	8 950	7 190	5 700	4 460	3 440
35	13 210	10 840	8 800	7 080	5 610	4 390	3 390
40	12 960	10 640	8 650	6 950	5 520	4 330	3 340
45	12 690	10 430	8 490	6 830	5 430	4 250	-
50	12 420	10 210	8 320	6 700	5 330	-	-

Power input [W]

$t_c \setminus t_e$	-20	-30	-40	-50
40	6 150	5 190	4 170	3 220

Application limits



Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

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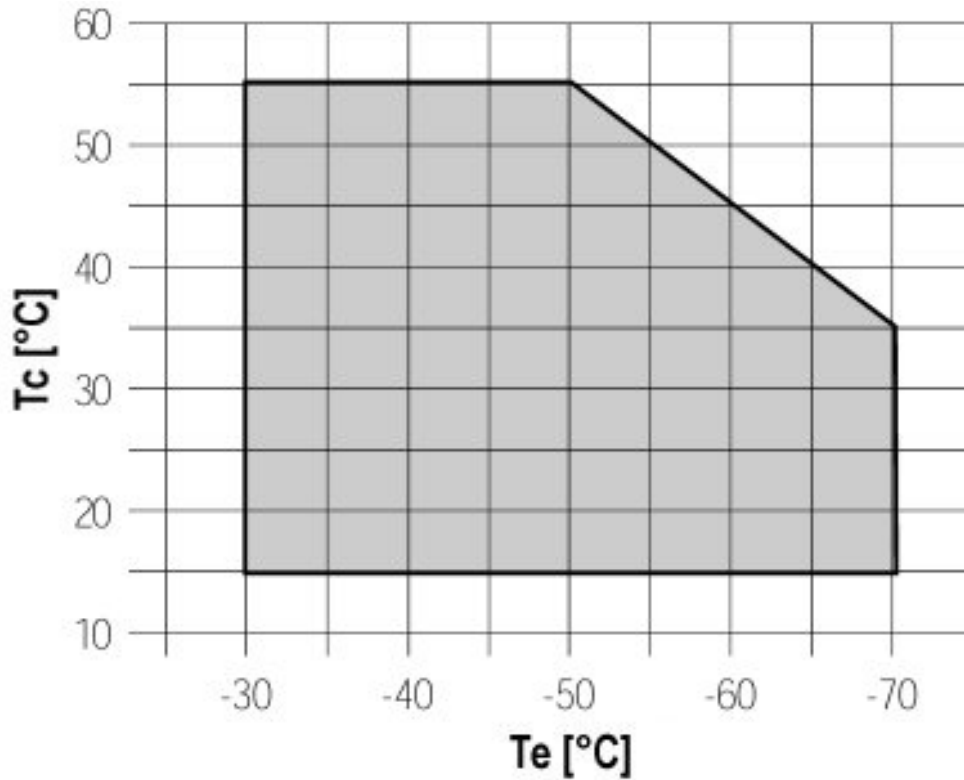
Cooling capacity [W]

$t_c \setminus t_e$	-30	-35	-40	-45	-50	-55	-60	-65	-70
30	10 020	8 330	6 880	5 510	4 260	3 290	2 510	1 910	1 470
35	9 810	8 160	6 740	5 400	4 170	3 210	2 450	1 860	1 430
40	9 560	7 950	6 570	5 260	4 070	3 130	2 380	1 800	-
45	9 290	7 740	6 390	5 110	3 950	3 030	2 300	-	-
50	8 970	7 460	6 160	4 930	3 800	2 910	-	-	-

Power input [W]

$t_c \setminus t_e$	-30	-40	-50	-60
40	6 250	5 090	3 920	2 990

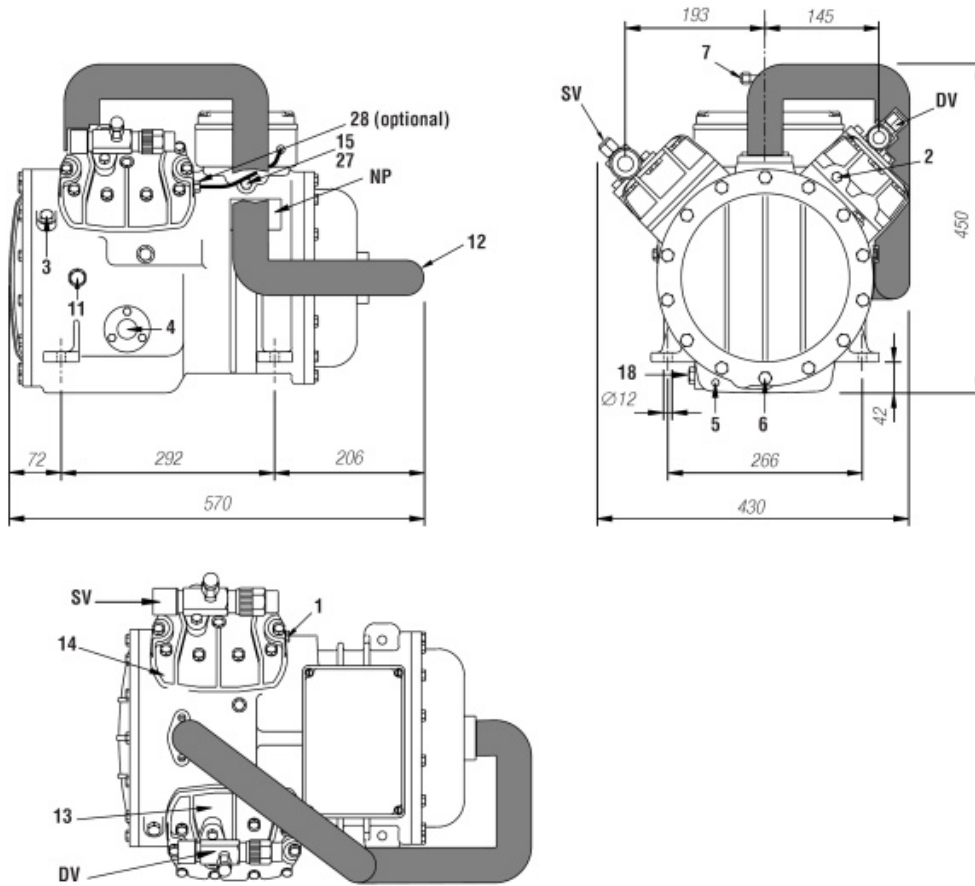
Application limits



Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



A - mm

- | | |
|---|--|
| 1: low pressure plug | 2: high pressure plug |
| 3: oil charge plug | 4: oil level sight glass |
| 5: crankcase heater seat | 6: oil drain |
| 7: connection for liquid injection valve | 8: oil pressure switch connection (l.p.) |
| 9: oil pressure switch connection (h.p.) | 10: oil filter |
| 11: oil return plug | 12: 1st-2nd stage manifold |
| 13: 2nd stage head | 14: 1st stage head |
| 15: mean pressure connection | 16: suction manifold |
| 17: electronic oil pressure switch connection | 18: magnetic plug |
| 27: external equalizer liquid injection | 28: maximum discharge temperature sensor |
| DV: discharge valve | NP: name plate |
| SV: suction valve | |

