

Type: Semi-hermetic piston two stage compressors

Producer: Frascold

Series: S,V,Z

Model: S 5 26 16 Y

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"

R22

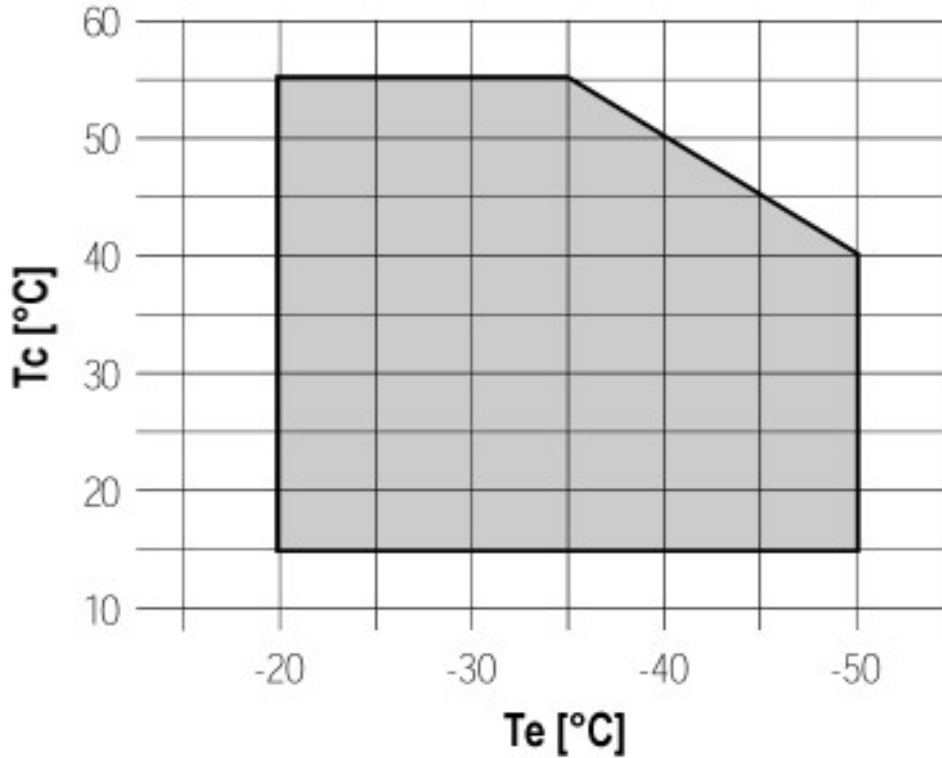
Cooling capacity [W]

$t_c \setminus t_e$	-20	-25	-30	-35	-40	-45	-50
30	11 760	9 450	7 520	5 930	4 620	3 560	2 700
35	11 270	9 070	7 230	5 700	4 450	3 420	2 600
40	10 780	8 680	6 920	5 470	4 270	3 290	2 500
45	10 290	8 290	6 620	5 230	4 090	3 150	-
50	9 780	7 890	6 310	4 990	3 900	-	-

Power input [W]

$t_c \setminus t_e$	-20	-30	-40	-50
40	5 420	4 430	3 480	2 610

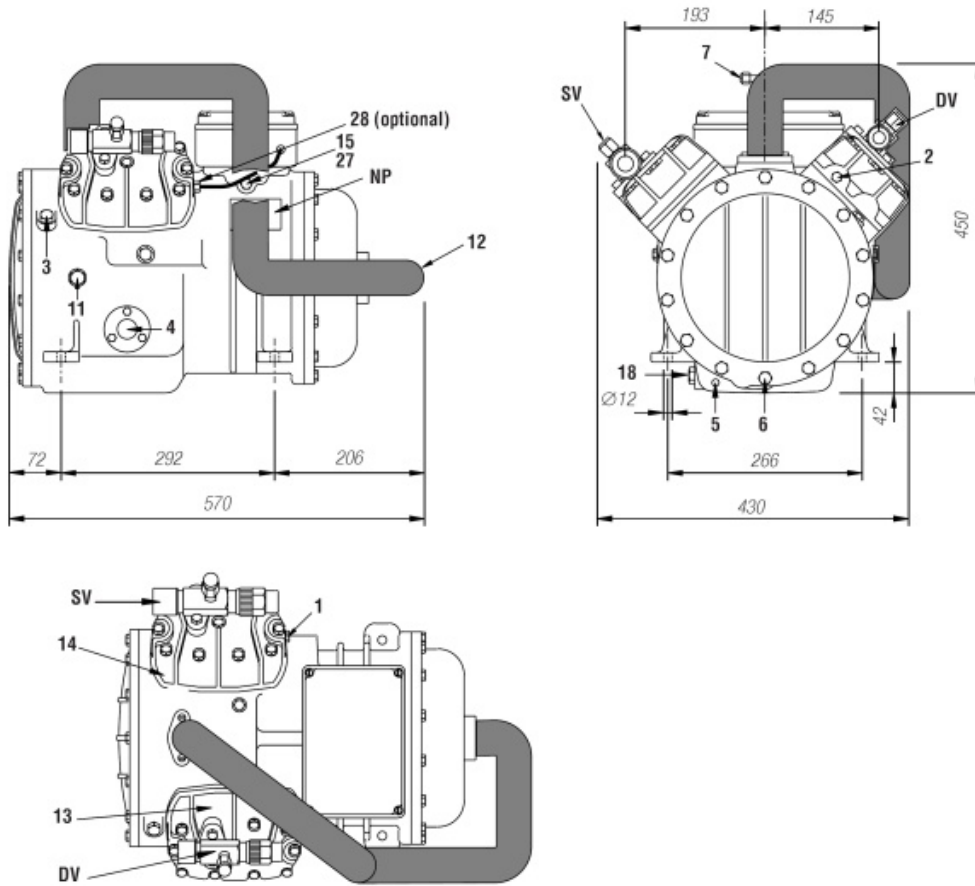
Application limits



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 | |

