

Type: Semi-hermetic piston two stage compressors

Producer: Frascold

Series: S,V,Z

Model: S 7 27 19 Y

Technical data

	<u>stage I</u>	<u>stage II</u>
Cylinder bore [mm]:	64	54
Cylinder count:	2	2
Displacement [m ³ /h]:	26,87	19,13
Cylinder capacity [cm ³]:	154,42	109,93
Nominal motor power [kW]:		5,5
Nominal motor power [HP]:		7,5
Cylinder stroke [mm]:		48
RPM [min ⁻¹]:		1450
Oil charge [dm ³]:		3,3
Weight net [kg]:		122
Weight gross [kg]:		133
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]:	75	47
Max. operating current [A]:	18	18

Connections

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

R22

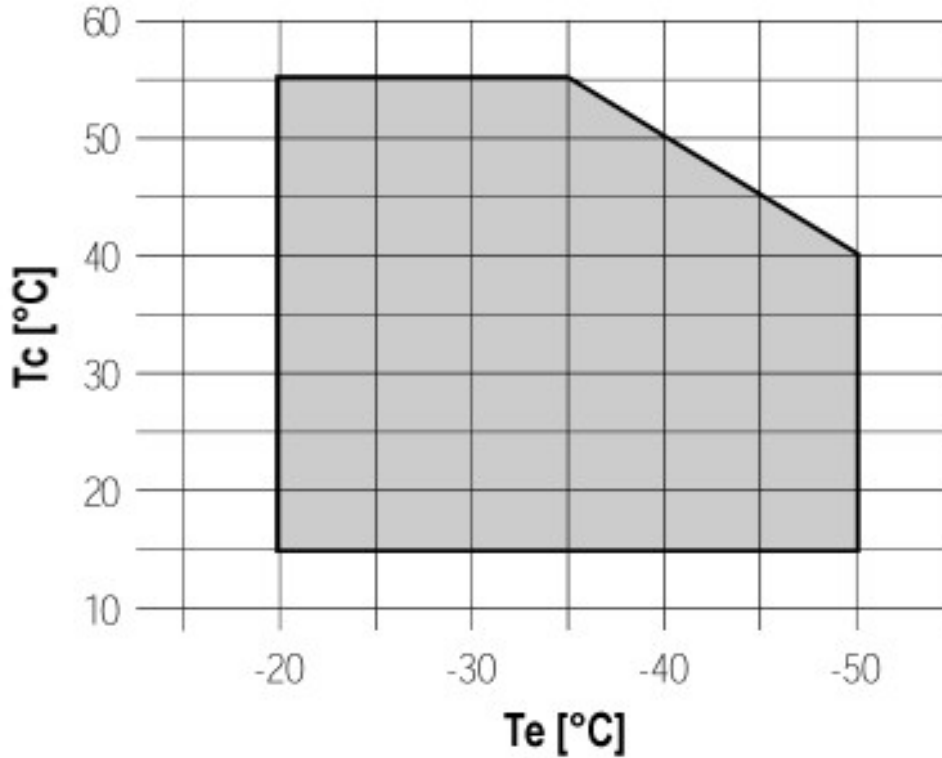
Cooling capacity [W]

$t_c \setminus t_e$	-20	-25	-30	-35	-40	-45	-50
30	12 610	10 130	8 070	6 360	4 960	3 820	2 900
35	12 090	9 720	7 750	6 120	4 770	3 680	2 790
40	11 560	9 310	7 430	5 870	4 580	3 530	2 690
45	11 030	8 890	7 100	5 610	4 380	3 380	-
50	10 500	8 470	6 770	5 350	4 180	-	-

Power input [W]

$t_c \setminus t_e$	-20	-30	-40	-50
40	5 850	4 850	3 820	2 860

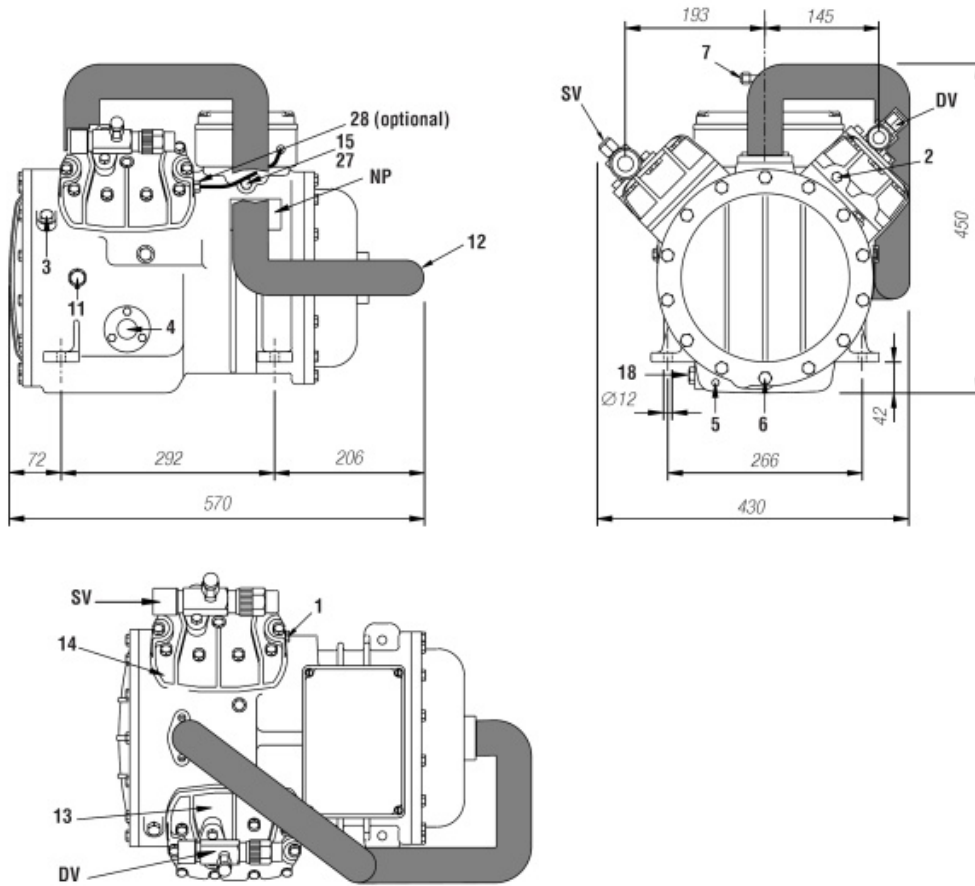
Application limits



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 | |

