

Type: Semi-hermetic piston two stage compressors

Producer: Frascold

Series: S,V,Z

Model: Z 25 84 42 Y

Technical data

	<u>stage I</u>	<u>stage II</u>
Cylinder bore [mm]:	74	74
Cylinder count:	4	2
Displacement [m ³ /h]:	83,81	41,91
Cylinder capacity [cm ³]:	240,85	240,85
Nominal motor power [kW]:		18,5
Nominal motor power [HP]:		25
Cylinder stroke [mm]:		56
RPM [min ⁻¹]:		1450
Oil charge [dm ³]:		7,5
Weight net [kg]:		230
Weight gross [kg]:		242
Packing volume [dm ³]:		450

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]:	167	104
Max. operating current [A]:	45	45

Connections

	<u>milimeters</u>	<u>inches</u>
Króciec ssawny:	42	1 5/8"
Discharge line:	35	1 3/8"

R22

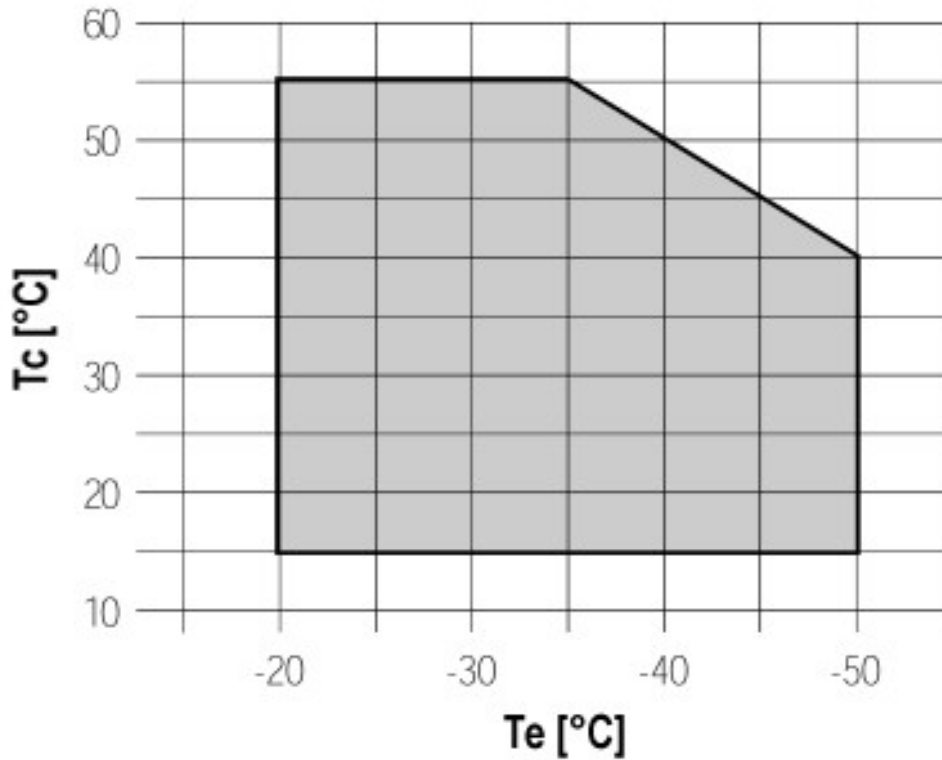
Cooling capacity [W]

$t_c \setminus t_e$	-20	-25	-30	-35	-40	-45	-50
30	36 250	29 200	23 320	18 460	14 450	11 180	8 550
35	34 820	28 080	22 460	17 790	13 940	10 810	8 280
40	33 370	26 940	21 570	17 120	13 430	10 420	7 990
45	31 900	25 780	20 670	16 420	12 900	10 020	-
50	30 400	24 610	19 760	15 710	12 360	-	-

Power input [W]

$t_c \setminus t_e$	-20	-30	-40	-50
40	16 940	13 900	10 890	8 160

Application limits



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

t_c - Condensing temperature [°C]

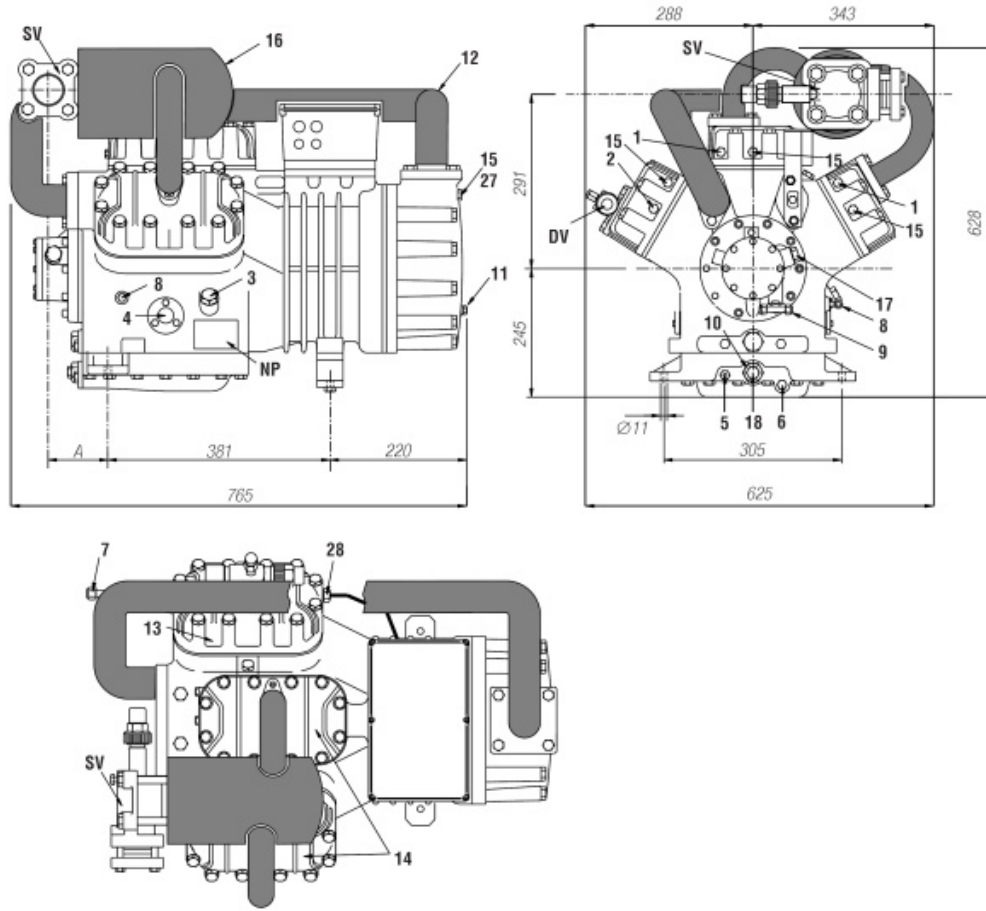
t_e - Evaporating temperature [°C]

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A 92 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 | |

