Type: Semi-hermetic piston two stage compressors
Producer: Frascold
Series: S,V,Z

Model: Z 20 72 36 Y

Technical data

	stage I	stage II
Cylinder bore [mm]:	68	68
Cylinder count:	4	2
Displacement [m³/h]:	70,77	35,39
Cylinder capacity [cm³]:	203,37	203,37
Nominal motor power [kW]:		15
Nominal motor power [HP]:		20
Cylinder stroke [mm]:		56
RPM [min^{-1}]:		1450
Oil charge [dm³]:		7,5
Weight net [kg]:		225
Weight gross [kg]:		237
Packing volume [dm³]:		450

Electrical data

	DOL Y Y	PWS Y / YY
Power supply [V/~/Hz]:	400/3/50	400/3/50
Locked rotor current [A]:	136	96,7
Max. operating current [A]:	37	37

Connections

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

R22

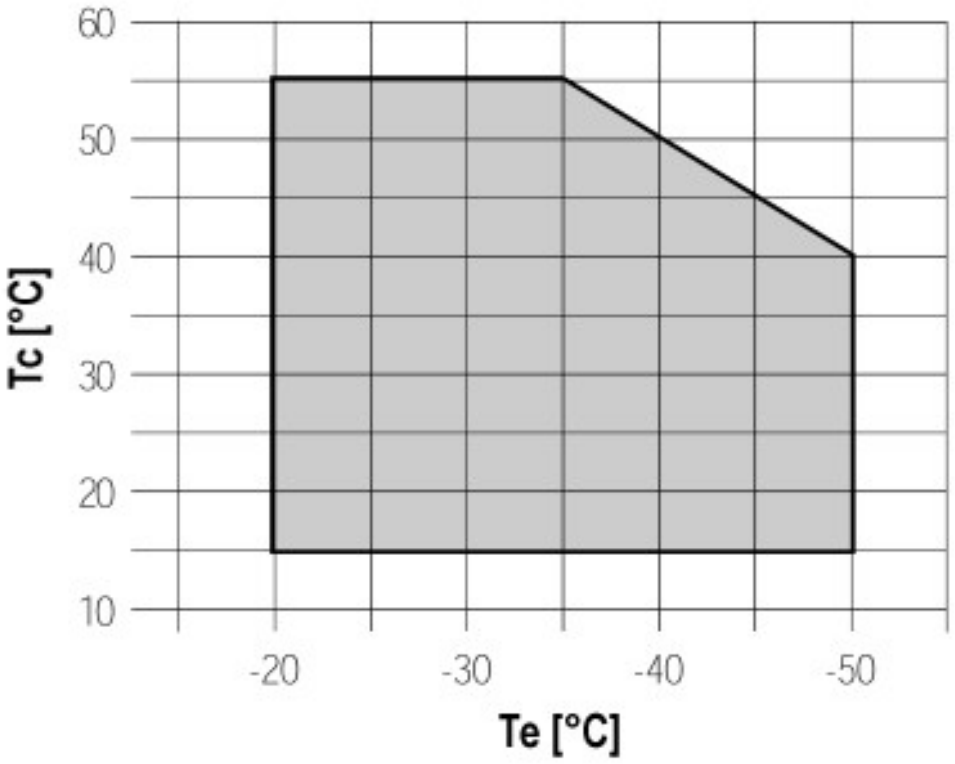
Cooling capacity [W]

t_c \ t_e	-20	-25	-30	-35	-40	-45	-50
30	30 610	24 660	19 700	15 590	12 200	9 440	7 220
35	29 400	23 710	18 960	15 020	11 770	9 120	6 990
40	28 180	22 750	18 220	14 450	11 340	8 800	6 750
45	26 930	21 770	17 460	13 870	10 890	8 460	-
50	25 670	20 780	16 680	13 270	10 440	-	-

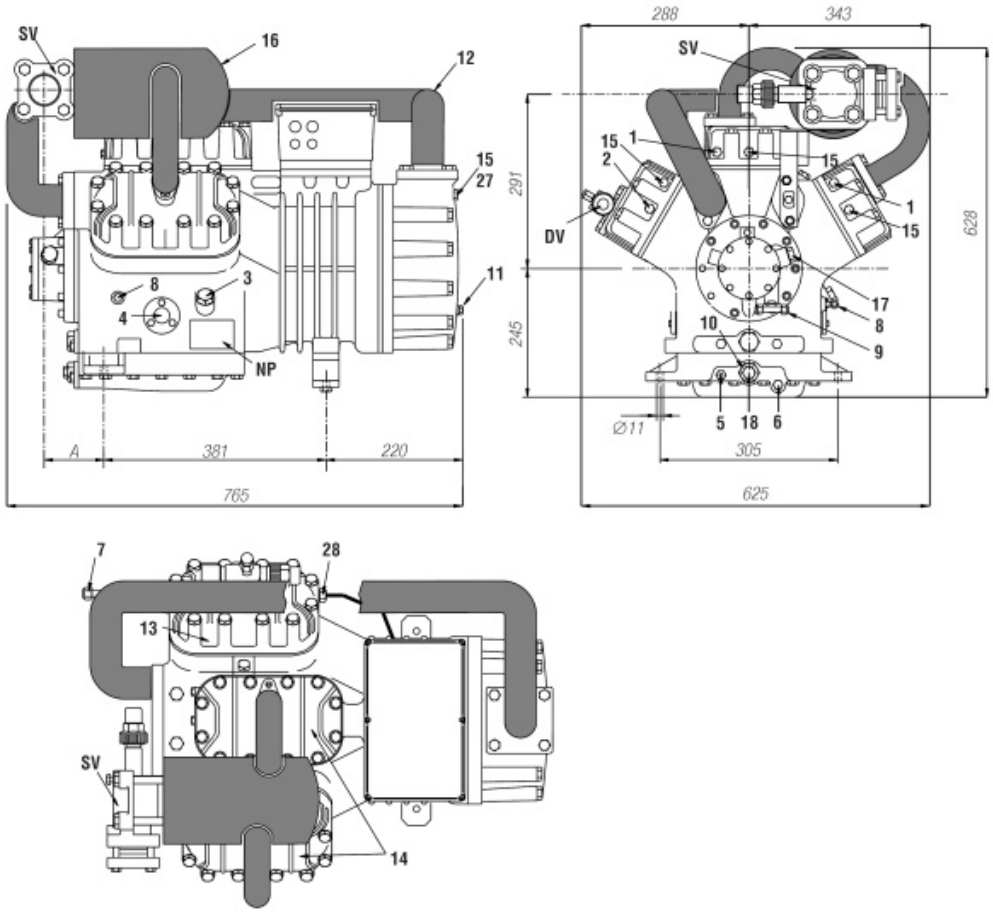
Power input [W]

t_c \ t_e	-20	-30	-40	-50
40	14 400	11 840	9 470	7 210

Application limits



Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]



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

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