

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: B

Model: B 1.5 9.1 Y

Technical data

Nominal motor power [kW/HP]:	1,1 / 1,5
Cylinder count:	2
Displacement [m ³ /h]:	8,96
RPM [min ⁻¹]:	1450
Weight net [kg]:	38
Weight gross [kg]:	39
Oil charge [dm ³]:	1,2

Electrical data

Power supply [V/~ /Hz]:	230V/3/50 Δ	400V/3/50 Y
Locked rotor current [A]:	46,6	26,8
Max. operating current [A]:	10,2	5,9

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	15,8	5/8
Discharge line:	12,7	1/2

R22

Cooling capacity [W]

$t_c \setminus t_e$	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	9 220	7 630	6 280	5 130	4 170	3 340	2 640	2 040	1 540	1 130	790
40	8 190	6 780	5 570	4 530	3 660	2 910	2 270	1 740	1 290	920	610
45	7 690	6 360	5 220	4 230	3 410	2 700	2 100	1 590	1 160	810	530
50	7 170	5 930	4 860	3 930	3 160	2 490	1 920	1 440	1 040	720	-

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30	-40
40	2 060	1 820	1 520	1 170	840

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R134a

Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20
30	8 080	6 700	6 090	4 990	4 050	3 250	2 560	1 980
40	7 170	5 940	5 400	4 410	3 560	2 830	2 200	1 670
45	6 730	5 570	5 050	4 110	3 310	2 610	2 020	1 510
50	6 280	5 190	4 700	3 820	3 060	2 400	1 830	1 350

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	1 690	1 470	1 320	1 050

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R404A/R507

Cooling capacity [W]

$t_c \setminus t_e$	7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	10 750	9 840	8 180	6 730	5 480	4 410	3 510	2 750	2 120	1 620	1 220	900
40	9 200	8 400	6 950	5 700	4 620	3 700	2 930	2 290	1 760	1 340	1 000	730
45	8 410	7 660	6 320	5 160	4 170	3 330	2 630	2 050	1 580	1 200	890	650
50	7 590	6 910	5 670	4 610	3 710	2 960	2 330	1 810	1 390	1 060	790	-

Power input [W]

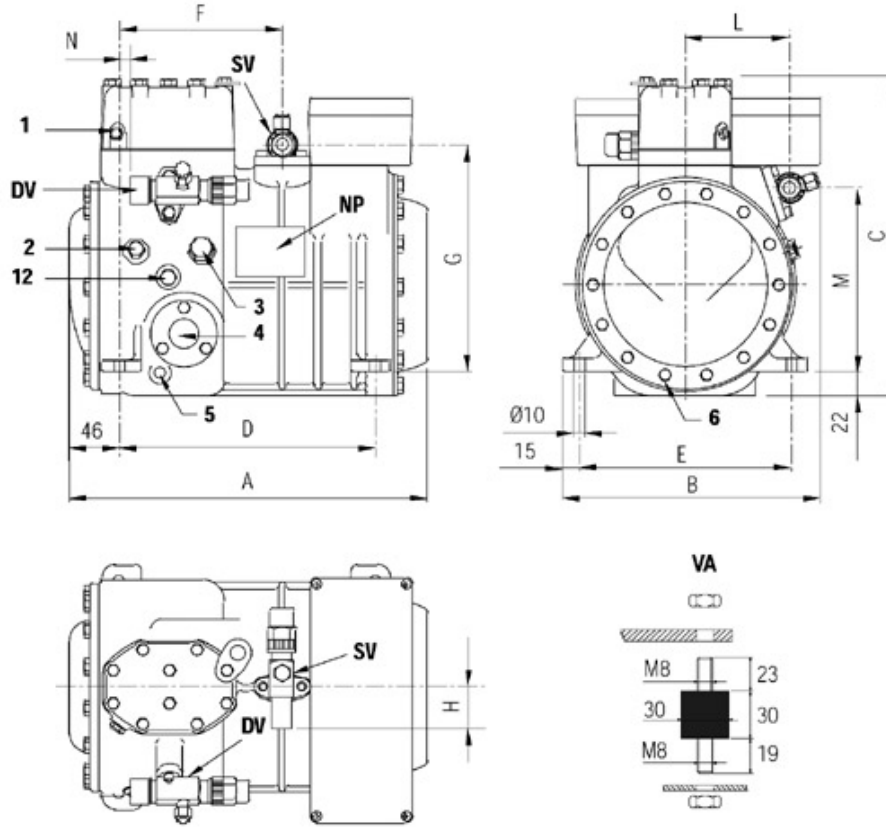
$t_c \setminus t_e$	-10	-20	-30	-40
40	2 090	1 680	1 260	870

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



A	329 mm
B	237 mm
C	292 mm
D	234 mm
E	194 mm
F	150 mm
G	209 mm
H	29 mm
L	97 mm
M	167 mm
N	18 mm

1: high pressure plug
 3: oil charge plug
 5: crankcase heater seat
 12: oil return plug
 NP: name plate

2: low pressure plug
 4: oil level sight glass
 6: oil drain plug
 DV: discharge valve
 SV: suction valve

