

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: D

Model: D 2 13.1 Y

Technical data

Nominal motor power [kW/HP]:	1,5 / 2
Cylinder count:	2
Displacement [m ³ /h]:	13,15
RPM [min ⁻¹]:	1450
Weight net [kg]:	45
Weight gross [kg]:	46
Oil charge [dm ³]:	1,2

Electrical data

Power supply [V/~ /Hz]:	230V/3/50 Δ	400V/3/50 Y
Locked rotor current [A]:	62,5	35,9
Max. operating current [A]:	12,4	7,1

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	22,2	7/8
Discharge line:	15,8	5/8

R22

Cooling capacity [W]

$t_c \setminus t_e$	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	13 870	11 570	9 590	7 880	6 400	5 120	4 040	3 110	2 330	1 660	1 110
40	12 270	10 240	8 480	6 950	5 620	4 460	3 470	2 630	1 910	1 310	810
45	11 500	9 590	7 940	6 490	5 230	4 130	3 180	1 380	1 700	1 130	660
50	10 680	8 920	7 380	6 020	4 830	3 800	2 900	2 140	1 490	960	-

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30	-40
40	2 990	2 840	2 430	1 860	1 230

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	12 170	11 110	9 190	7 510	6 060	4 822	3 790	2 940
40	10 730	9 780	8 060	6 570	5 280	4 170	3 250	2 490
45	10 000	9 110	7 500	6 100	4 890	3 860	2 990	2 280
50	9 280	8 450	6 940	5 630	4 500	3 550	2 740	2 070

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	2 170	2 090	1 990	1 720

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]

$t_c \setminus t_e$	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	10 330	8 510	6 920	5 550	4 380	3 390	2 570	1 900	1 370
40	8 760	7 190	5 830	4 660	3 670	2 830	2 140	1 570	1 120
45	8 000	6 560	5 310	4 240	3 330	2 570	1 940	1 430	-
50	7 260	5 930	4 800	3 820	3 010	2 320	1 750	1 290	-

Power input [W]

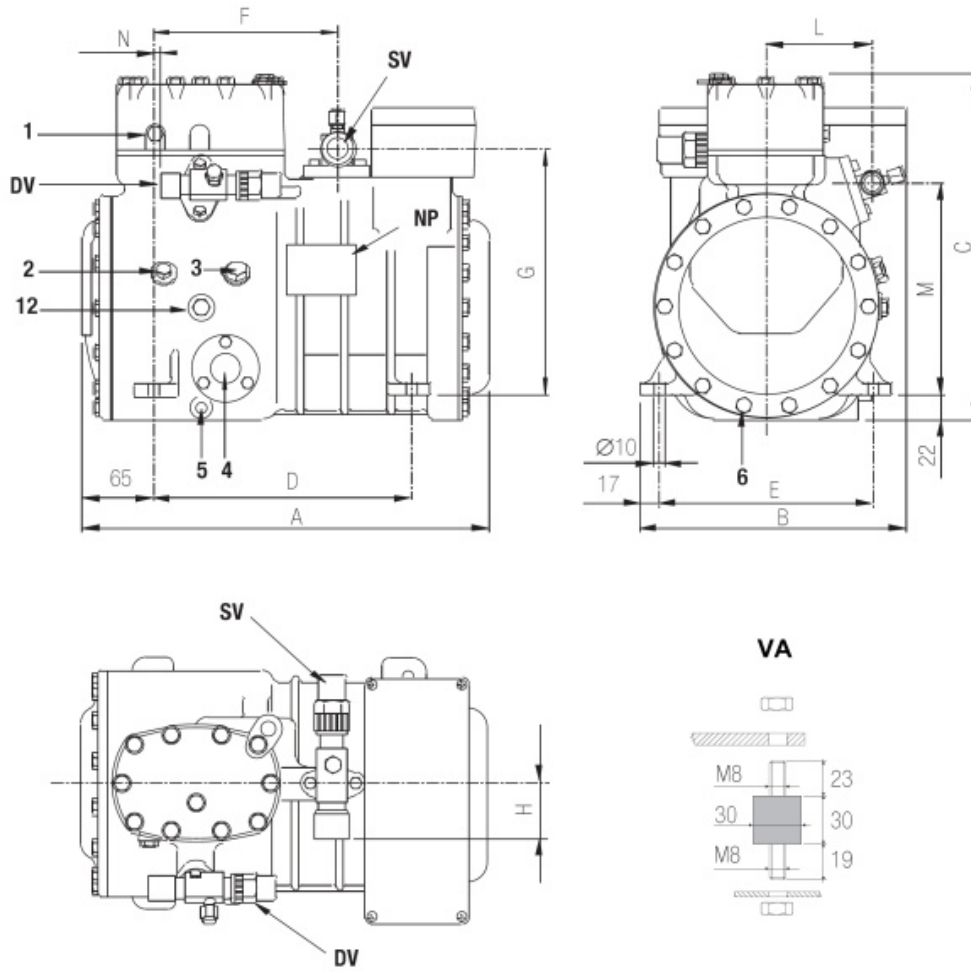
$t_c \setminus t_e$	-10	-20	-30	-40
40	3 080	2 600	2 060	1 540

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



A	369 mm
B	242 mm
C	294 mm
D	234 mm
E	194 mm
F	165 mm
G	220 mm
H	42 mm
L	94 mm
M	192 mm
N	13 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

