

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: D

Model: D 3 16.1 Y

Technical data

Nominal motor power [kW/HP]:	2,2 / 3
Cylinder count:	2
Displacement [m ³ /h]:	16,4
RPM [min ⁻¹]:	1450
Weight net [kg]:	49
Weight gross [kg]:	50
Oil charge [dm ³]:	1,2

Electrical data

Power supply [V/~ /Hz]:	230V/3/50 Δ	400V/3/50 Y
Locked rotor current [A]:	75,9	43,7
Max. operating current [A]:	17,2	9,9

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	28,6	1 1/8
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
30	16 520	13 800	11 440	9 410	7 650	6 150	4 850	3 750	2 810	2 030
40	14 570	12 180	10 110	8 310	6 740	5 380	4 200	3 190	2 340	1 620
45	13 630	11 400	9 460	7 760	6 280	4 990	3 870	2 910	2 100	1 420
50	12 680	10 610	8 800	7 210	5 810	4 600	3 530	2 630	1 850	-

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30	-40
40	3 670	3 430	2 920	2 280	1 570

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	14 520	12 020	10 910	8 920	7 230	5 770	4 540	3 480
40	12 840	10 620	9 630	7 840	6 310	4 990	3 860	2 900
45	12 020	9 920	8 980	7 300	5 850	4 590	3 520	2 610
50	11 190	9 230	8 340	6 750	5 380	4 190	3 180	2 310

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	2 890	2 620	2 410	1 940

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	12 770	10 510	8 560	6 880	5 430	4 200	3 160	2 280	1 550
40	10 800	8 870	7 190	5 750	4 500	3 430	2 530	1 760	1 120
45	9 830	8 060	6 520	5 190	4 050	3 060	2 220	1 510	920
50	8 860	7 260	5 860	4 650	3 600	2 700	1 930	1 270	-

Power input [W]

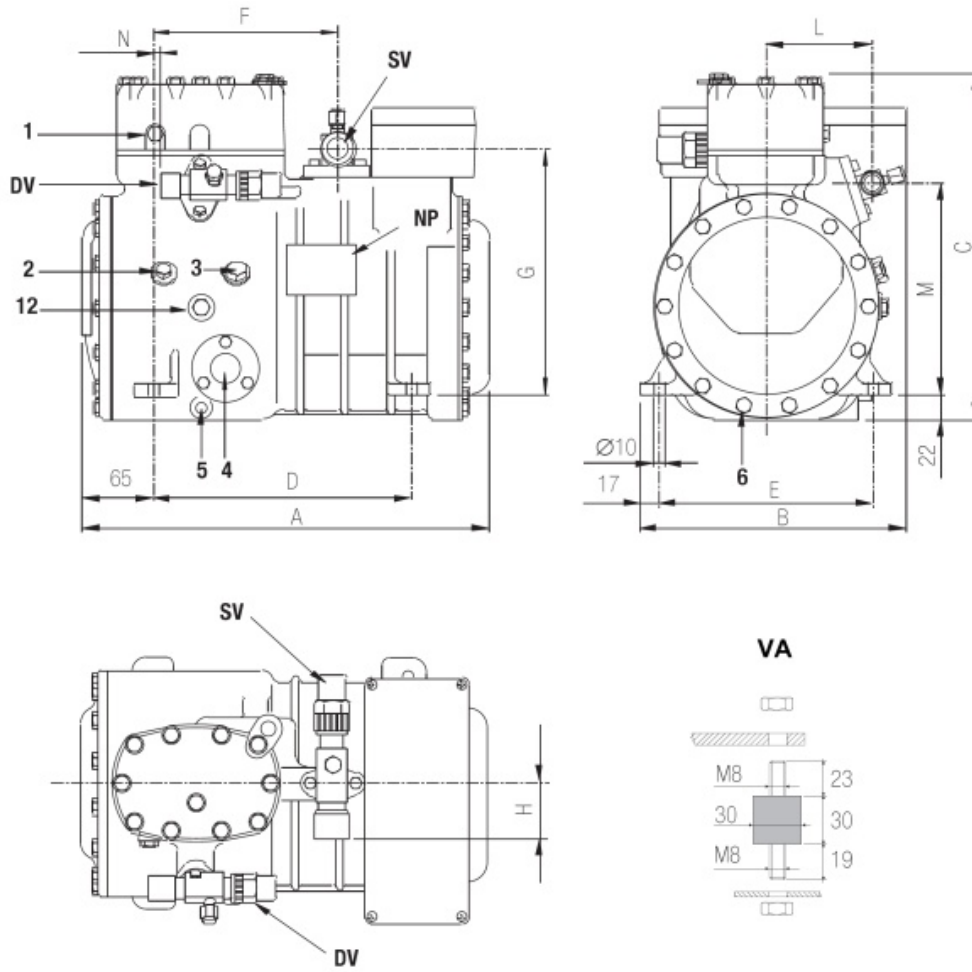
$t_c \setminus t_e$	-10	-20	-30	-40
40	4 010	3 270	2 510	1 740

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



A	374 mm
B	242 mm
C	317 mm
D	234 mm
E	194 mm
F	165 mm
G	220 mm
H	53 mm
L	94 mm
M	192 mm
N	13 mm

1: high pressure plug
2: low pressure plug
3: oil charge plug
4: oil level sight glass
5: crankcase heater seat
12: oil return plug
NP: name plate

6: oil drain plug
DV: discharge valve
SV: suction valve

