

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: D

Model: D 3 15.1 Y

Technical data

Nominal motor power [kW/HP]:	2,2 / 3
Cylinder count:	2
Displacement [m ³ /h]:	15,36
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]:	15,8	9,1

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	28,6	1 1/8
Discharge line:	15,8	5/8

R22

Cooling capacity [W]

$t_c \setminus t_e$	7.5	5	0	-5	-10	-15	-20	-25	-30	-35
30	17 220	15 720	13 040	10 740	8 780	7 090	5 650	4 430	3 390	2 530
40	15 330	13 990	11 590	9 530	7 750	6 220	4 910	3 790	2 850	2 070
45	14 400	13 140	10 870	8 920	7 240	5 790	4 540	3 480	2 580	1 840
50	13 460	12 280	10 150	8 310	6 720	5 350	4 170	3 160	2 320	1 610

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30
40	3 290	3 050	2 600	2 030

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
50	10 720	8 830	7 990	6 460	5 140	4 010	3 030	2 200
60	9 140	7 500	6 750	5 410	4 240	3 240	2 370	1 630
70	7 550	6 140	5 510	4 350	3 350	2 470	1 720	1 080
80	5 930	4 790	4 260	3 300	2 470	1 740	1 100	560

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
60	3 090	2 610	2 320	1 800

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	0	-5	-10	-15	-20	-25	-30
30	17 160	14 420	12 010	9 910	8 100	6 540	5 230	4 120
40	14 530	12 190	10 150	8 370	6 830	5 520	4 400	3 450
45	13 190	11 060	9 200	7 590	6 200	5 000	3 990	3 120
50	11 830	9 910	8 240	6 800	5 550	4 490	3 580	2 800

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30
40	4 340	3 810	3 200	2 540

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R407C

Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20	-25
30	20 510	17 030	15 480	12 720	10 370	8 360	6 650	5 190	3 950
40	17 970	14 900	13 540	11 110	9 010	7 200	5 660	4 340	3 220
45	16 680	13 830	12 560	10 280	8 310	6 620	5 160	3 910	2 860
50	15 370	12 740	11 560	9 440	7 610	6 020	4 650	3 480	2 480

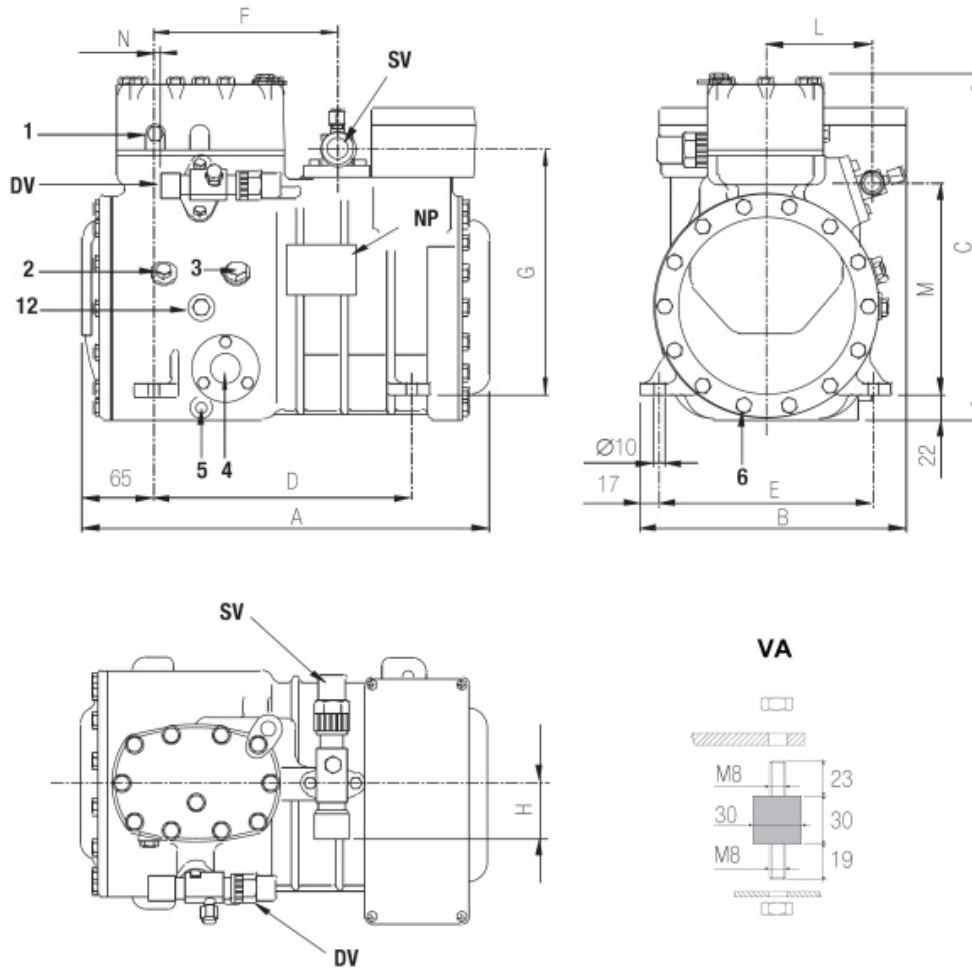
Power input [W]

$t_c \setminus t_e$	7.5	0	-10	-20
40	3 650	3 360	2 850	2 330

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

