

Model: D 2 15 Y

Data

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: D

Model: D 2 15 Y

Technical data

Nominal motor power [kW/HP]:	1,5 / 2
Cylinder count:	2
Displacement [m ³ /h]:	15,36
Cylinder capacity [cm ³]:	88,36
Cylinder bore [mm]:	50
Cylinder stroke [mm]:	45
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]:	43,1	24,9
Max. operating current [A]:	11,8	6,8

Connections

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

Model: D 2 15 Y

Capacity

R22

Cooling capacity [W]

$t_c \setminus t_e$	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	10 640	8 730	7 080	5 670	4 470	3 450	2 590	1 860	1 270
40	9 400	7 700	6 220	4 940	3 940	2 910	2 130	1 470	930
45	8 780	7 190	5 790	4 570	3 530	2 650	1 900	1 280	770
50	8 150	6 660	5 350	4 210	3 220	2 380	1 680	1 090	-

Power input [W]

$t_c \setminus t_e$	-10	-20	-30	-40
40	3 110	2 640	2 010	1 330

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D 2 15 Y

Capacity

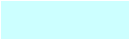
R134a

Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20	-25	-30
30	13 810	11 480	10 430	8 570	6 980	5 590	4 410	3 390	2 480	1 780
40	12 250	10 160	9 230	7 540	6 090	4 840	3 760	2 830	2 010	1 360
45	11 470	9 500	8 620	7 020	5 650	4 460	3 430	2 550	1 770	1 150
50	10 690	8 840	8 010	6 500	5 200	4 070	3 100	2 260	1 530	930

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	2 880	2 450	2 180	1 670

 With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D 2 15 Y

Capacity

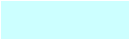
R404A/R507

Cooling capacity [W]

$t_c \setminus t_e$	-10	-15	-20	-25	-30	-35	-40	-45
30	9 330	7 680	6 250	5 020	3 960	3 060	2 300	1 660
40	7 930	6 540	5 310	4 230	3 300	2 510	1 840	1 260
45	7 230	5 950	4 830	3 840	2 970	2 230	1 600	1 070
50	-	5 370	4 350	3 440	2 640	1 960	1 370	880

Power input [W]

$t_c \setminus t_e$	-10	-20	-30	-40
40	3 660	3 070	2 420	1 770

 With head cooling

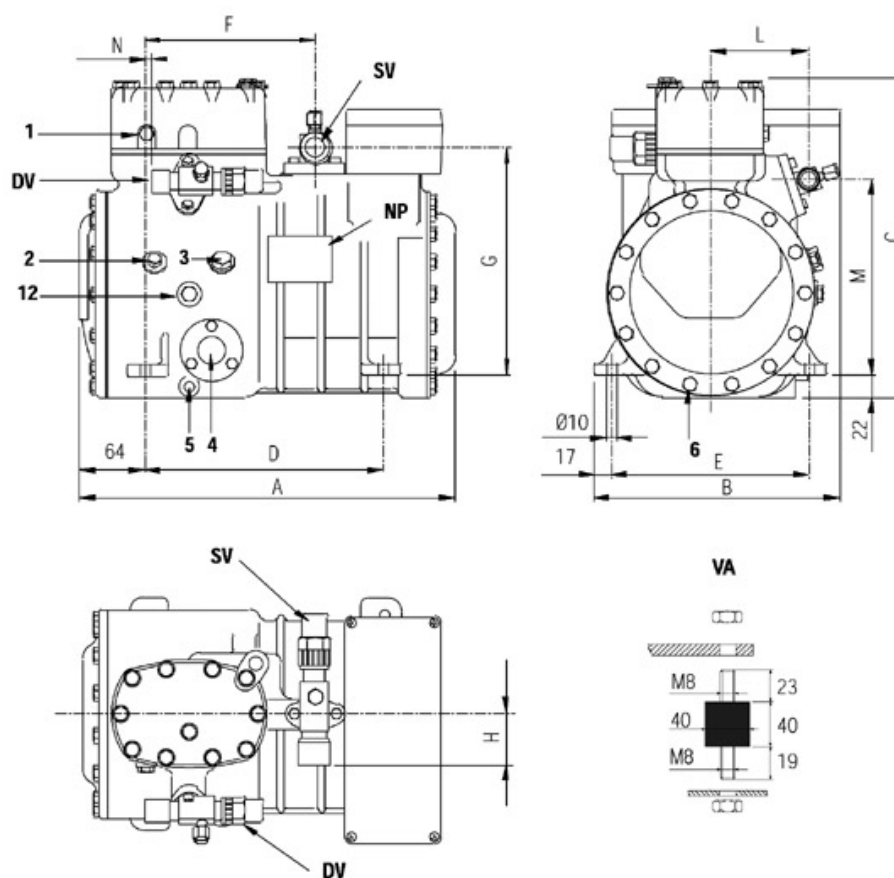
Operating conditions: suction gas temperature 20°C, 0K subcooling

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

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Dimensions



A	353 mm
B	240 mm
C	296 mm
D	234 mm
E	194 mm
F	167 mm
G	223 mm
H	49 mm
L	96 mm
M	192 mm
N	6 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

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Image

