

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: A

Model: A 1.5 8 Y

Technical data

Nominal motor power [kW/HP]:	1,1 / 1,5
Cylinder count:	2
Displacement [m ³ /h]:	7,65
RPM [min ⁻¹]:	1450
Weight net [kg]:	36
Weight gross [kg]:	37
Oil charge [dm ³]:	1,2

Electrical data

Power supply [V/~ /Hz]:	230V/3/50 Δ	400V/3/50 Y
Locked rotor current [A]:	35,8	20,6
Max. operating current [A]:	8,4	4,8

Connections

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

R22

Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40
30	10 350	8 620	7 860	6 490	5 320	4 350	3 510	2 800	2 180	1 670	1 240	890
40	9 230	7 690	7 000	5 770	4 720	2 850	3 090	2 450	1 890	1 430	1 040	720
45	8 690	7 230	6 580	5 420	4 410	3 600	2 880	2 270	1 750	1 310	940	640
50	8 120	6 760	6 150	5 060	4 110	3 340	2 670	2 090	1 600	1 180	840	560

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30	-40
40	1 730	1 520	1 270	980	690

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	6 850	5 690	5 170	4 240	3 450	2 770	2 190	1 690
40	6 100	5 060	4 590	3 760	3 040	2 420	1 890	1 440
45	5 730	4 740	4 300	3 510	2 830	2 240	1 740	1 310
50	5 350	4 430	4 010	3 260	2 620	2 060	1 580	1 180

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	1 440	1 260	1 140	910

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	-35	-40	-45
30	8 500	7 110	5 910	4 870	3 970	3 190	2 520	1 950	1 450	1 040	690
40	7 250	6 070	5 040	4 140	3 350	2 670	2 080	1 570	1 130	760	450
45	6 630	5 550	4 600	3 770	3 040	2 410	1 860	1 380	970	630	330
50	6 000	5 020	4 160	3 400	2 730	2 140	1 630	1 190	810	490	-

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30	-40
40	2 230	1 770	1 390	1 040	700

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	10 120	8 490	7 650	6 300	5 140	4 150	3 310	2 590	1 990
40	8 910	7 400	6 730	5 520	4 490	3 600	2 840	2 190	1 640
45	8 290	6 880	6 260	5 130	4 150	3 320	2 600	1 990	1 470
50	7 660	6 360	5 780	4 730	3 820	3 030	2 360	1 780	1 290

Power input [W]

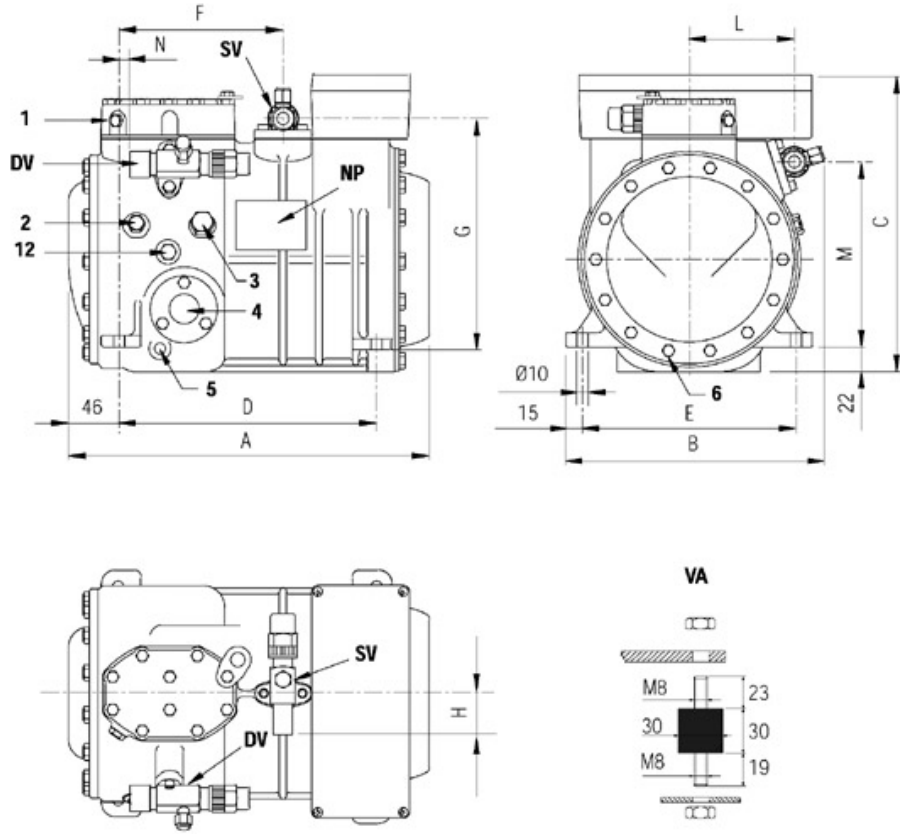
$t_c \setminus t_e$	7.5	0	-10	-20
40	1 890	1 720	1 440	1 170

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



A	313 mm
B	237 mm
C	275 mm
D	234 mm
E	194 mm
F	150 mm
G	209 mm
H	29 mm
L	95 mm
M	168 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

