Type: Semi-hermetic piston compressors
Producer: Frascold
Series: Q

Model: Q 7 25.1 Y

Technical data

Nominal motor power [kW/HP]:	5,5 / 7,5
Cylinder count:	4
Displacement [m³/h]:	24,69
RPM [min^{-1}]:	1450
Weight net [kg]:	79
Weight gross [kg]:	82
Oil charge [dm³]:	1,8

Electrical data

Power supply [V/~/Hz]:	230V/3/50 Δ	400V/3/50 Y
Locked rotor current [A]:	151,8	87,3
Max. operating current [A]:	26,8	15,4

Connections

	milimeters	inches
Suction linie:	28,6	1 1/8"
Discharge line:	22,2	7/8"

R22

Cooling capacity [W]

t_c \ t_e	12.5	7.5	5	0	-5	-10	-15	-20	-25	-30
30	33 150	27 810	25 420	21 100	17 360	14 140	11 370	9 000	6 990	5 300
40	30 060	25 180	22 990	19 020	15 580	12 620	10 060	7 880	6 020	4 470
45	28 480	23 830	21 730	17 950	14 670	11 830	9 390	7 300	5 530	4 050
50	26 860	22 450	20 460	16 860	13 740	11 040	8 710	6 720	5 040	3 630

Power input [W]

t_c \ t_e	5	-10	-20	-30
40	5 440	4 940	4 130	3 130

With head cooling

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

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R134a

Cooling capacity [W]

t_c \ t_e	12.5	7.5	5	0	-5	-10	-15	-20
50	17 970	14 900	13 520	11 060	8 940	7 130	5 570	4 240
60	15 430	12 770	11 580	9 440	7 580	5 980	4 600	3 430
70	12 860	10 630	9 620	7 790	6 200	4 830	3 640	2 620
80	10 260	8 460	7 630	6 140	4 830	3 690	2 700	1 850

Power input [W]

t_c \ t_e	12.5	5	0	-10
60	5 560	5 040	4 650	3 800

With head cooling

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

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R404A/R507

Cooling capacity [W]

t_c \ t_e	7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40
30	31 600	28 900	23 970	19 660	15 930	12 740	10 040	7 780	5 930	4 440	3 270
40	26 370	24 070	19 890	16 270	13 160	10 510	8 280	6 430	4 910	3 680	2 700
45	23 870	21 770	17 960	14 670	11 860	9 480	7 480	5 820	4 450	3 350	2 450
50	21 450	19 540	16 100	13 140	10 620	8 490	6 710	5 240	4 030	-	-

Power input [W]

t_c \ t_e	5	-10	-20	-30	-40
40	6 430	5 370	4 460	3 540	2 740

With head cooling

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

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R407C

Cooling capacity [W]

t_c \ t_e	12.5	7.5	5	0	-5	-10	-15	-20	-25
30	32 170	26 810	24 380	20 000	16 220	12 970	10 210	7 880	5 920
40	28 240	23 450	21 290	17 390	14 030	11 150	8 690	6 600	4 830
45	26 300	21 790	19 760	16 110	12 960	10 260	7 950	5 990	4 310
50	24 380	20 160	18 260	14 850	11 910	9 390	7 240	5 400	3 820

Power input [W]

t_c \ t_e	7.5	0	-10	-20
40	5 480	5 150	4 490	3 670

With head cooling

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

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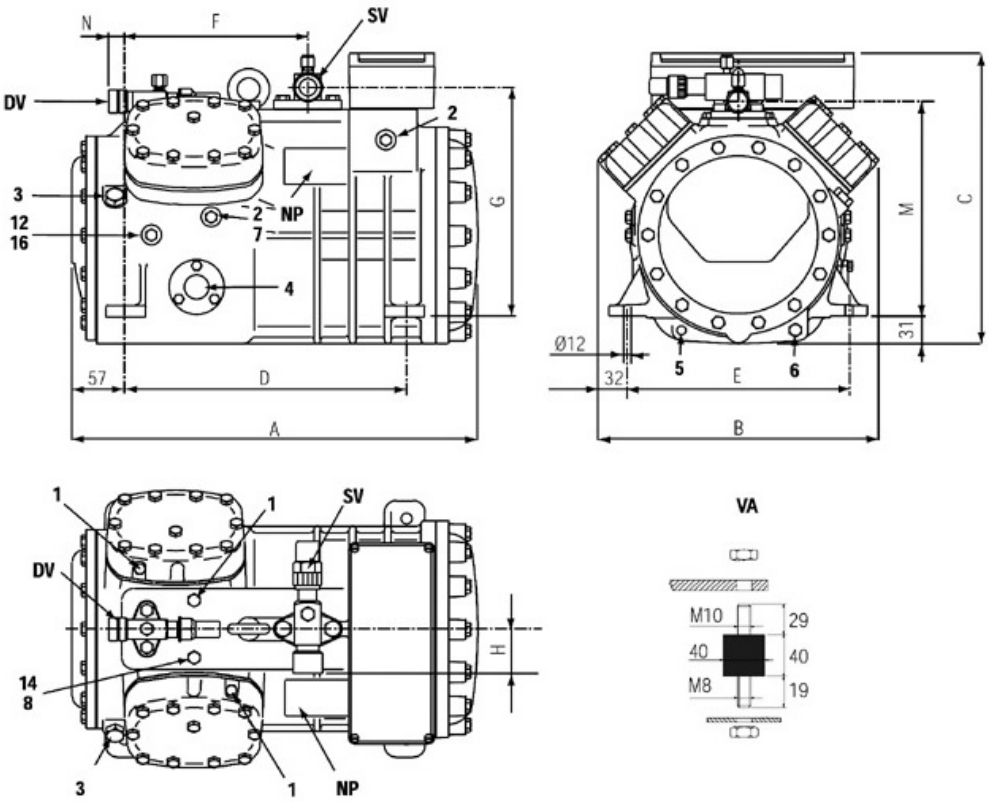

A	449	mm
B	315	mm
C	325	mm
D	312	mm
E	246	mm
F	203	mm
G	261	mm
H	53	mm
M	243	mm
N	28	mm

1: high pressure plug
2: low pressure plug
3: oil charge plug
4: oil level sight glass
5: crankcase heater seat
6: oil drain plug
7: liquid injection valve plug
8: liquid injection sensor plug
12: oil return plug
14: max. discharge temperature sensor plug
16: crankcase pressure plug
DV: discharge valve
NP: name plate
SV: suction valve

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