

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: Q

Model: Q 5 28.1 Y

Technical data

Nominal motor power [kW/HP]:	3,7 / 5
Cylinder count:	4
Displacement [m ³ /h]:	28,02
RPM [min ⁻¹]:	1450
Weight net [kg]:	79
Weight gross [kg]:	82
Oil charge [dm ³]:	1,8

Electrical data

Power supply [V/~/Hz]:	230V/3/50 Δ	400V/3/50 Y
Locked rotor current [A]:	109,7	63,1
Max. operating current [A]:	24,3	14

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	35	1 3/8"
Discharge line:	22,2	7/8"

R22

Cooling capacity [W]

$t_c \setminus t_e$	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	23 650	19 610	16 110	13 090	10 480	8 230	6 320	4 700	3 350	2 230
40	21 120	17 490	14 330	11 580	9 200	7 140	5 370	3 880	2 650	1 640
45	19 840	16 430	13 440	10 810	8 540	6 580	4 880	3 470	2 290	1 350
50	18 530	15 330	12 520	10 030	7 880	6 010	4 400	3 050	1 950	-

Power input [W]

$t_c \setminus t_e$	-10	-20	-30	-40
40	5 490	4 580	3 450	2 250

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	25 200	22 950	18 880	15 350	12 330	9 770	7 640	5 910
40	22 330	20 310	16 670	13 510	10 810	8 520	6 620	5 050
45	20 870	18 970	15 540	12 580	10 040	7 890	6 100	4 620
50	19 400	17 620	14 410	11 640	9 270	7 260	5 590	4 200

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	4 530	4 230	3 960	3 320

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	21 830	18 040	14 720	11 830	9 350	7 240	5 460	3 990	2 780
40	18 420	15 160	12 330	9 870	7 760	5 960	4 440	3 160	2 090
45	16 720	13 740	11 140	8 890	6 970	5 320	3 930	2 760	1 760
50	15 040	12 320	9 960	7 930	6 190	4 700	3 440	2 360	-

Power input [W]

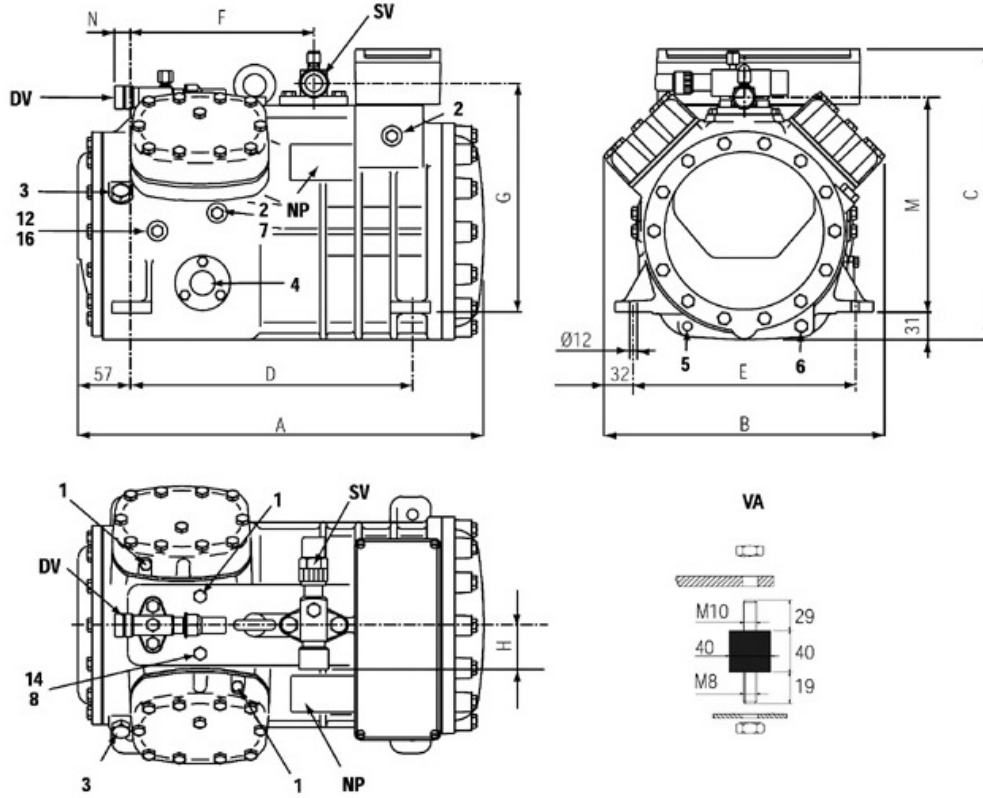
$t_c \setminus t_e$	-10	-20	-30	-40
40	6 280	5 180	4 010	2 810

With head cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



A	449 mm
B	315 mm
C	325 mm
D	312 mm
E	246 mm
F	203 mm
G	261 mm
H	58 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 |

