

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: Q

Model: Q 5 33.1 Y

Technical data

Nominal motor power [kW/HP]:	3,7 / 5
Cylinder count:	4
Displacement [m ³ /h]:	32,66
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]:	25	14,4

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	35	1 3/8"
Discharge line:	28,6	1 1/8"

R22

Cooling capacity [W]

$t_c \setminus t_e$	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	22 500	18 670	15 350	12 490	10 030	7 920	6 130	4 620	3 340
40	20 200	16 740	13 730	11 130	8 870	6 950	5 310	3 920	2 760
45	19 040	15 760	12 920	10 440	8 290	6 460	4 890	3 570	2 470
50	17 850	14 770	12 080	9 740	7 700	5 960	4 480	3 230	-

Power input [W]

$t_c \setminus t_e$	-10	-20	-30	-40
40	6 160	5 420	4 370	3 200

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	28 780	26 250	21 690	17 740	14 340	11 440	8 970	6 870
40	25 310	23 070	19 050	15 580	12 600	10 040	7 850	5 970
45	23 610	21 520	17 770	14 530	11 750	9 360	7 310	5 530
50	21 940	20 000	16 510	13 500	10 910	8 690	6 770	5 090

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	5 340	4 910	4 600	3 900

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	25 200	20 900	17 150	13 890	11 090	8 700	6 680	4 990	3 590
40	21 310	17 610	14 400	11 630	9 250	7 230	5 510	4 070	2 850
45	-	16 030	13 080	10 550	8 380	6 530	4 970	3 640	2 510
50	-	-	11 800	9 500	7 540	5 870	4 450	3 240	-

Power input [W]

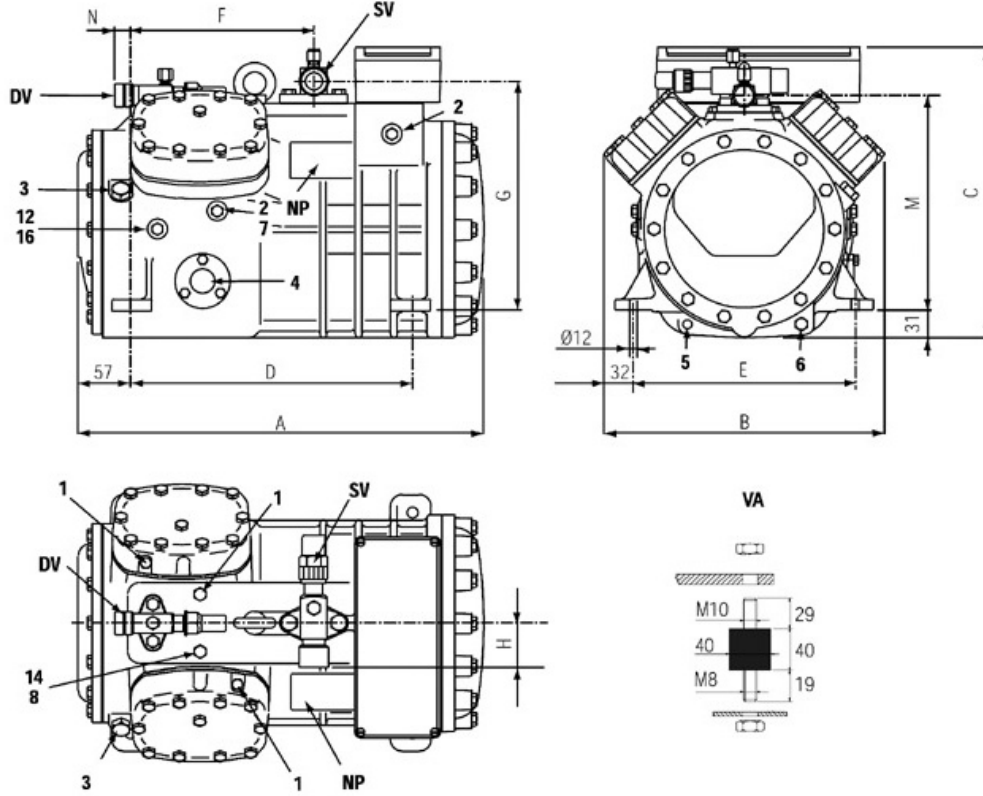
$t_c \setminus t_e$	-10	-20	-30	-40
40	7 610	6 220	4 760	3 440

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	310 mm
C	325 mm
D	312 mm
E	246 mm
F	203 mm
G	261 mm
H	58 mm
M	244 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 |

