

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: Q

Model: Q 4 25.1 Y

Technical data

Nominal motor power [kW/HP]:	3 / 4
Cylinder count:	4
Displacement [m ³ /h]:	24,69
RPM [min ⁻¹]:	1450
Weight net [kg]:	77
Weight gross [kg]:	80
Oil charge [dm ³]:	1,8

Electrical data

Power supply [V/~ /Hz]:	230V/3/50 Δ	400V/3/50 Y
Locked rotor current [A]:	92,6	53,2
Max. operating current [A]:	19,2	11

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	28,6	1 1/8"
Discharge line:	19	3/4"

R22

Cooling capacity [W]

$t_c \setminus t_e$	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	18 160	14 920	12 120	9 700	7 630	5 860	4 370	3 120	2 080
40	16 090	13 190	10 650	8 450	6 560	4 950	3 590	2 450	1 520
45	15 060	12 320	9 920	7 830	6 030	4 490	3 190	2 120	1 240
50	14 020	11 430	9 170	7 190	5 490	4 030	2 800	1 790	-

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30	-40
40	5 340	5 060	4 310	3 280	2 160

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	21 890	18 120	16 410	13 320	10 650	8 360	6 420	4 800
40	19 180	15 780	14 250	11 480	9 090	7 060	5 340	3 910
45	17 860	14 640	13 200	10 590	8 340	6 440	4 830	3 490
50	16 550	13 520	12 160	9 710	7 620	5 830	4 330	3 080

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	3 760	3 520	3 290	2 730

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	18 780	15 440	12 510	9 970	7 790	5 940	4 400	3 120	2 090
40	15 810	12 910	10 390	9 210	6 340	4 770	3 450	2 360	1 480
45	14 360	11 680	9 360	7 350	5 650	4 210	3 010	2 020	1 210
50	12 920	10 470	8 340	6 520	4 970	3 670	2 560	1 700	-

Power input [W]

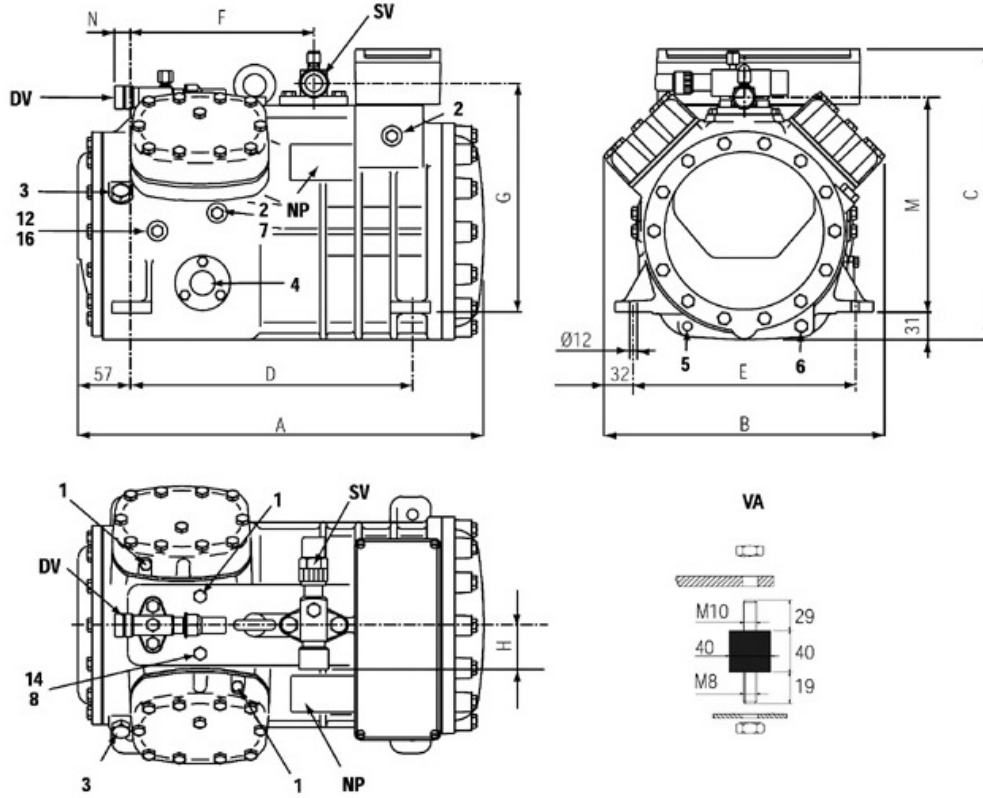
$t_c \setminus t_e$	-10	-20	-30	-40
40	5 220	4 180	3 100	2 080

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	258 mm
H	53 mm
M	243 mm
N	15 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 |

