

Type: Semi-hermetic piston compressors

Producer: Frascold

Series: S

Model: S 10 39 Y

Technical data

Nominal motor power [kW/HP]:	7,5 / 10
Cylinder count:	4
Displacement [m ³ /h]:	38,25
RPM [min ⁻¹]:	1450
Weight net [kg]:	120
Weight gross [kg]:	134
Oil charge [dm ³]:	3,3

Electrical data

	<u>DOL Y Y</u>	<u>PWS Y / Y</u>
Power supply [V/~ / Hz]:	400V/3/50	400V/3/50
Locked rotor current [A]:	87,6	53,9
Max. operating current [A]:	23,7	23,7

Connections

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

R22

Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20	-25	-30
30	55 010	45 750	41 650	34 280	28 000	22 600	18 050	14 160	10 890	8 180
40	48 790	40 530	36 840	30 220	24 550	19 710	15 580	12 070	9 140	6 710
45	45 760	37 960	34 490	28 230	22 860	18 270	14 370	11 050	8 290	6 010
50	42 720	35 410	32 110	26 220	21 170	16 840	13 160	10 050	7 450	5 330

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30
40	8 010	7 310	6 020	4 400

	With head cooling
	With liquid injection or oil cooler

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
50	27 900	23 110	20 990	17 160	13 870	11 040	8 640	6 590
60	24 070	19 920	18 050	14 680	11 800	9 210	7 170	5 360
70	20 170	16 650	15 060	12 190	9 710	7 550	5 710	4 130
80	16 180	13 310	12 010	9 650	7 590	5 810	4 270	2 940

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
60	7 970	7 140	6 500	5 160

	With head cooling
	With liquid injection or oil cooler

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

 t_c - Condensing temperature [°C] t_e - Evaporating temperature [°C]

R404A/R507

Cooling capacity [W]

$t_c \setminus t_e$	7.5	5	0	-5	-10	-15	-20	-25	-30
30	47 070	43 210	36 290	30 310	25 140	20 670	16 800	13 480	10 630
40	40 550	37 260	31 310	26 150	21 660	17 750	14 370	11 440	8 930
45	37 220	34 220	28 800	24 050	19 880	16 270	13 130	10 400	8 060
50	33 840	31 130	26 220	21 890	18 080	14 760	11 870	9 360	7 190

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30
40	9 820	8 310	6 940	5 520

	With head cooling
	With liquid injection or oil cooler

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	55 040	45 640	41 490	34 130	27 760	22 320	17 790	13 890	10 580
40	48 390	40 100	36 420	29 850	24 190	19 350	15 210	11 680	8 690
45	45 050	37 310	33 860	27 670	22 360	17 790	13 890	10 550	7 720
50	41 600	34 420	31 220	25 470	20 480	16 210	12 540	9 410	6 740

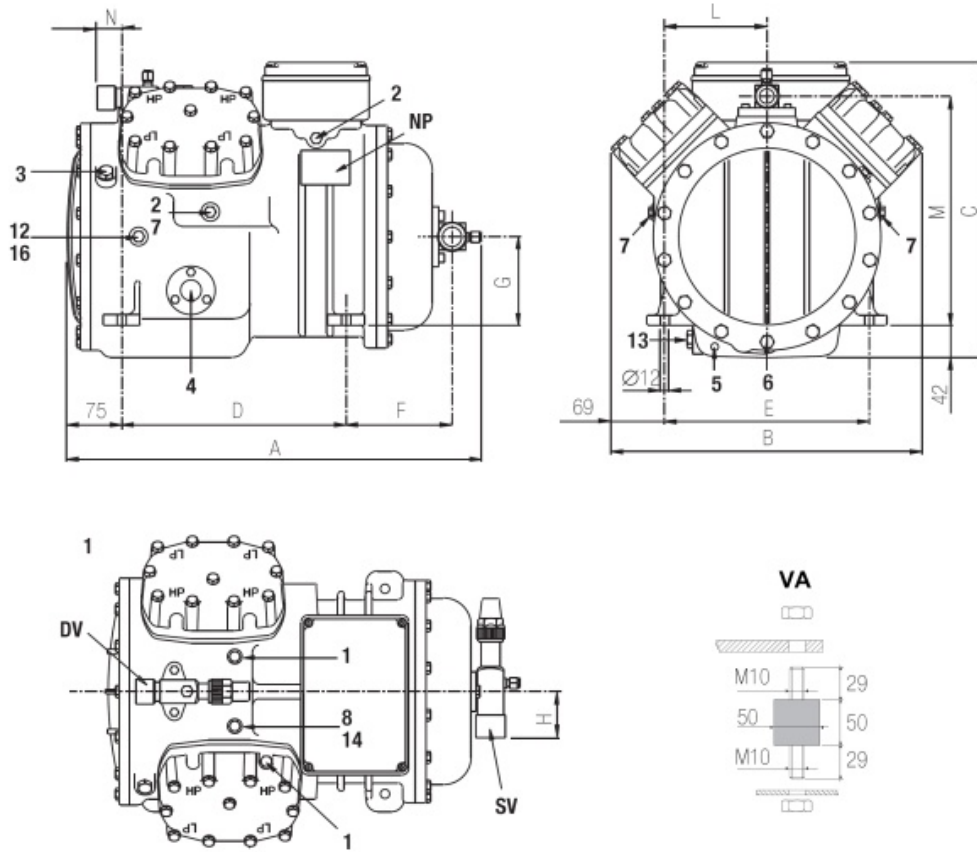
Power input [W]

$t_c \setminus t_e$	7.5	0	-10	-20
40	8 840	8 250	7 070	5 670

	With head cooling
	With liquid injection or oil cooler

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

 t_c - Condensing temperature [°C] t_e - Evaporating temperature [°C]



A	550 mm
B	405 mm
C	382 mm
D	292 mm
E	266 mm
F	147 mm
G	115 mm
H	58 mm
L	133 mm
M	298 mm
N	23 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 | 13: magnetic plug |
| 14: max. discharge temperature sensor plug | 16: crankcase pressure plug |
| DV: discharge valve | NP: name plate |
| SV: suction valve | |

