

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

Model: V 32 93 Y

Technical data

Nominal motor power [kW/HP]:	23,5 / 32
Cylinder count:	4
Displacement [m ³ /h]:	93,05
RPM [min ⁻¹]:	1450
Weight net [kg]:	192
Weight gross [kg]:	206
Oil charge [dm ³]:	4,5

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]:	239,2	144,5
Max. operating current [A]:	53,1	53,1

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	54	2 1/8
Discharge line:	35	1 3/8

R22

Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20	-25	-30
30	129 490	108 420	99 020	82 140	67 600	55 060	44 270	35 000	27 070	20 330
40	115 840	96 930	88 490	73 300	60 170	48 840	38 970	30 500	23 220	17 030
45	109 060	91 250	83 290	68 940	56 510	45 730	36 380	28 300	21 360	15 430
50	102 920	85 960	78 360	64 620	52 660	42 310	33 320	25 520	18 800	13 060

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30
40	21 080	18 840	15 310	10 570

- 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	65 980	53 890	48 420	38 560	30 040	22 790	16 680	11 640
60	55 630	45 000	40 210	31 600	24 220	17 970	12 740	8 440
70	45 540	36 370	32 260	24 930	18 700	13 460	9 130	5 590
80	35 770	28 090	24 680	18 630	13 560	9 360	5 930	3 170

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
60	19 630	17 170	15 400	11 700

	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	-35	-40
30	117 370	107 620	89 780	74 040	60 280	48 340	28 080	29 380	22 080	16 040	11 130
40	99 340	90 860	75 420	61 870	50 070	39 880	31 170	23 790	17 600	12 460	8 240
45	90 460	82 620	68 380	55 920	45 110	35 810	27 870	21 150	15 530	10 840	6 960
50	81 670	74 480	61 450	50 090	40 270	31 850	24 690	18 640	13 580	-	-

Power input [W]

$t_c \setminus t_e$	5	-10	-20	-30	-40
40	24 260	19 810	15 990	11 970	8 180

- 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	128 090	106 660	96 960	79 460	64 320	51 330	40 280	30 960	23 150
40	112 690	93 410	84 700	69 010	55 470	43 840	33 930	25 520	18 400
45	104 950	86 750	78 540	63 780	51 030	40 100	30 760	22 820	16 060
50	97 200	90 100	72 390	58 540	46 600	36 370	27 620	20 150	13 750

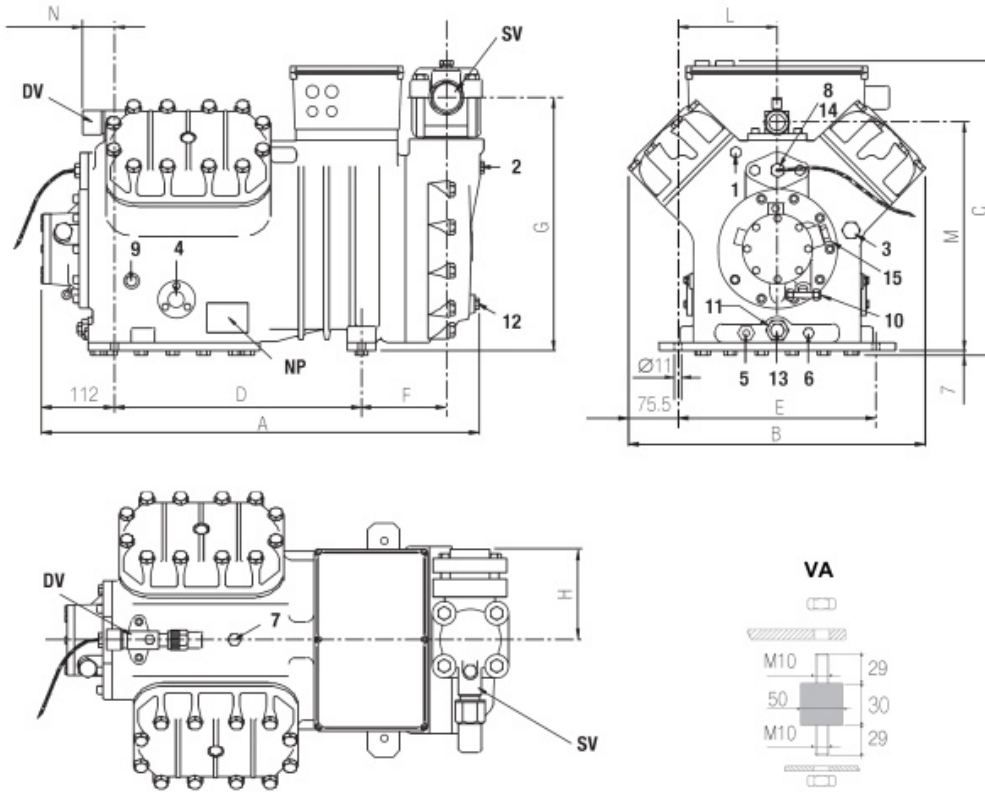
Power input [W]

$t_c \setminus t_e$	7.5	0	-10	-20
40	20 290	18 740	15 820	12 280

	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	740 mm
B	454 mm
C	463 mm
D	381 mm
E	305 mm
F	158 mm
G	389 mm
H	130 mm
L	152 mm
M	356 mm
N	40 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 |
| 9: oil pressure switch connection (l.p.) | 10: oil pressure switch connection (h.p.) |
| 11: oil filter | 12: oil return plug |
| 13: magnetic plug | 14: max. discharge temperature sensor plug |
| 15: electronic oil pressure switch connection | DV: discharge valve |
| NP: name plate | SD: oil pressure switch mounting bracket |
| SV: suction valve | |

