

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

Model: W 70 228 Y

Technical data

Nominal motor power [kW/HP]:	52 / 70
Cylinder count:	8
Displacement [m ³ /h]:	227,77
RPM [min ⁻¹]:	1450
Weight net [kg]:	328
Weight gross [kg]:	354
Oil charge [dm ³]:	8

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]:	548	390
Max. operating current [A]:	109,5	109,5

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	79,4	3 1/8
Discharge line:	54	2 1/8

R22

Cooling capacity [W]

$t_c \setminus t_e$	0	-5	-10	-15	-20	-25	-30	-35	-40
30	198 450	164 770	135 650	110 840	88 840	70 310	54 570	41 260	30 060
40	179 460	148 650	121 910	98 750	78 750	61 590	46 990	34 630	24 220
45	169 870	140 450	114 900	92 730	73 580	57 110	43 090	31 220	-
50	160 080	132 030	107 700	86 580	68 290	52 550	39 130	-	-

Power input [W]

$t_c \setminus t_e$	-10	-20	-30	-40
40	43 710	34 190	26 270	18 810

	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
30	208 460	172 820	156 700	127 680	102 680	81 360	63 410	48 510
40	185 640	153 190	138 570	112 310	89 790	70 670	54 630	41 350
45	174 260	143 420	129 550	104 690	83 430	65 420	50 350	37 890
50	162 900	133 690	120 570	97 130	77 130	60 250	46 160	34 540

Power input [W]

$t_c \setminus t_e$	12.5	5	0	-10
40	35 180	33 040	31 030	26 040

	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]

$t_c \setminus t_e$	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	178 120	146 920	119 620	95 950	75 620	58 380	43 940	32 040	22 400
40	151 630	124 420	100 730	80 280	62 800	48 010	35 640	25 430	-
45	138 510	113 310	91 440	72 610	56 560	43 020	31 700	-	-
50	125 480	102 300	82 250	65 060	50 450	38 160	-	-	-

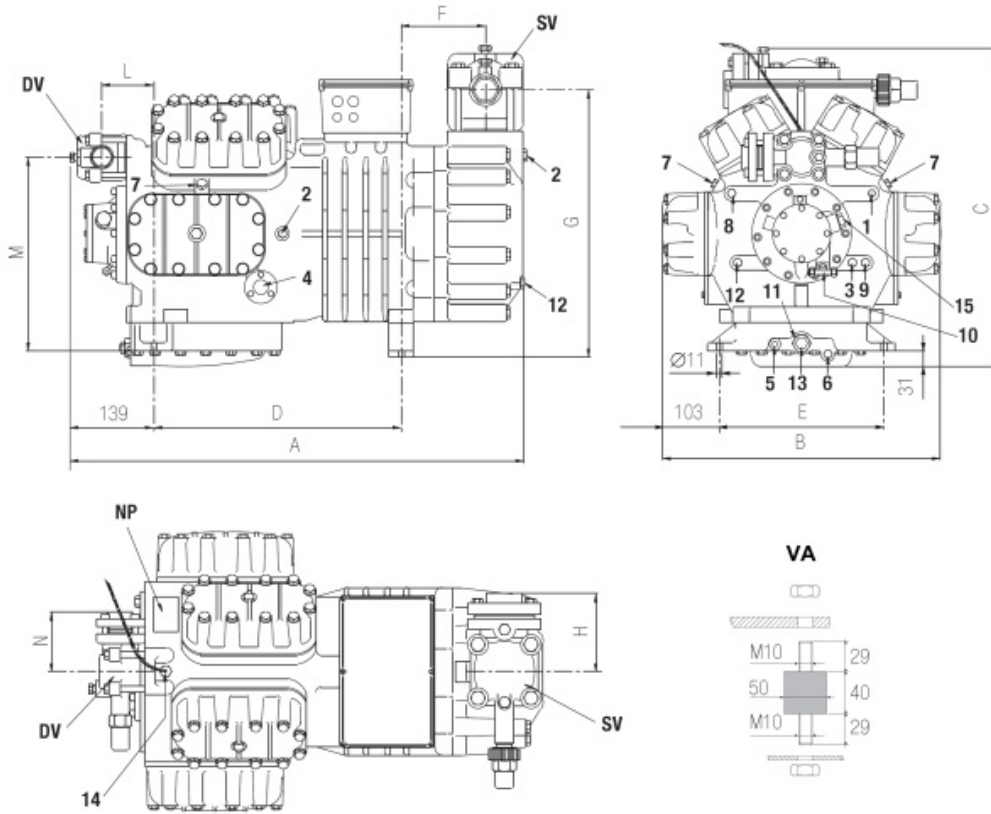
Power input [W]

$t_c \setminus t_e$	-10	-20	-30	-40
40	47 210	38 770	29 710	20 680

	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	862 mm
B	511 mm
C	588 mm
D	458 mm
E	305 mm
F	188 mm
G	486 mm
H	160 mm
L	95 mm
M	358 mm
N	162 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 | |

