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

Model: W 75 228 Y

Technical data

Nominal motor power [kW/HP]:	55,5 / 75
Cylinder count:	8
Displacement [m³/h]:	227,77
RPM [min^{-1}]:	1450
Weight net [kg]:	328
Weight gross [kg]:	354
Oil charge [dm³]:	8

Electrical data

	DOL Y Y	PWS Y / Y
Power supply [V/~/Hz]:	400V/3/50	400V/3/50
Locked rotor current [A]:	584	417
Max. operating current [A]:	128,4	128,4

Connections

	milimeters	inches
Suction linie:	79,4	3 1/8
Discharge line:	54	2 1/8

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R22

Cooling capacity [W]

t_c \ t_e	12.5	7.5	5	0	-5	-10	-15
30	308 120	259 660	237 970	198 880	165 070	135 830	110 600
40	279 710	235 620	215 840	180 130	149 140	122 230	98 910
45	265 230	223 370	204 550	170 540	140 960	115 250	92 920
50	250 000	210 590	192 790	160 650	132 550	108 080	86 800

Power input [W]

t_c \ t_e	5	-10
40	49 580	43 760

With head cooling
With liquid injection or oil cooler

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

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R134a

Cooling capacity [W]

t_c \ t_e	12.5	7.5	5	0	-5	-10	-15	-20
50	159 840	130 940	117 940	94 660	74 770	57 990	44 010	32 560
60	135 580	110 360	99 080	78 980	61 940	47 670	35 870	26 260
70	112 090	90 560	81 000	64 090	49 910	38 150	28 540	-
80	89 480	71 650	63 800	50 090	38 760	29 530	-	-

Power input [W]

t_c \ t_e	12.5	5	0	-10
60	45 650	40 080	36 080	27 900

With head cooling
With liquid injection or oil cooler

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

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R404A/R507

Cooling capacity [W]

t_c \ t_e	7.5	5	0	-5	-10	-15	-20	-25	-30
30	279 430	256 360	214 290	177 320	145 070	117 150	93 190	72 800	55 610
40	237 910	218 000	181 780	150 040	122 400	98 480	77 890	60 250	45 190
45	216 620	198 340	165 140	136 110	110 870	89 030	70 220	54 050	40 150
50	195 030	178 410	148 290	122 020	99 240	79 550	62 580	47 940	35 260

Power input [W]

t_c \ t_e	5	-10	-20	-30
40	57 750	47 100	38 050	28 510

With head cooling
With liquid injection or oil cooler

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

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R407C

Cooling capacity [W]

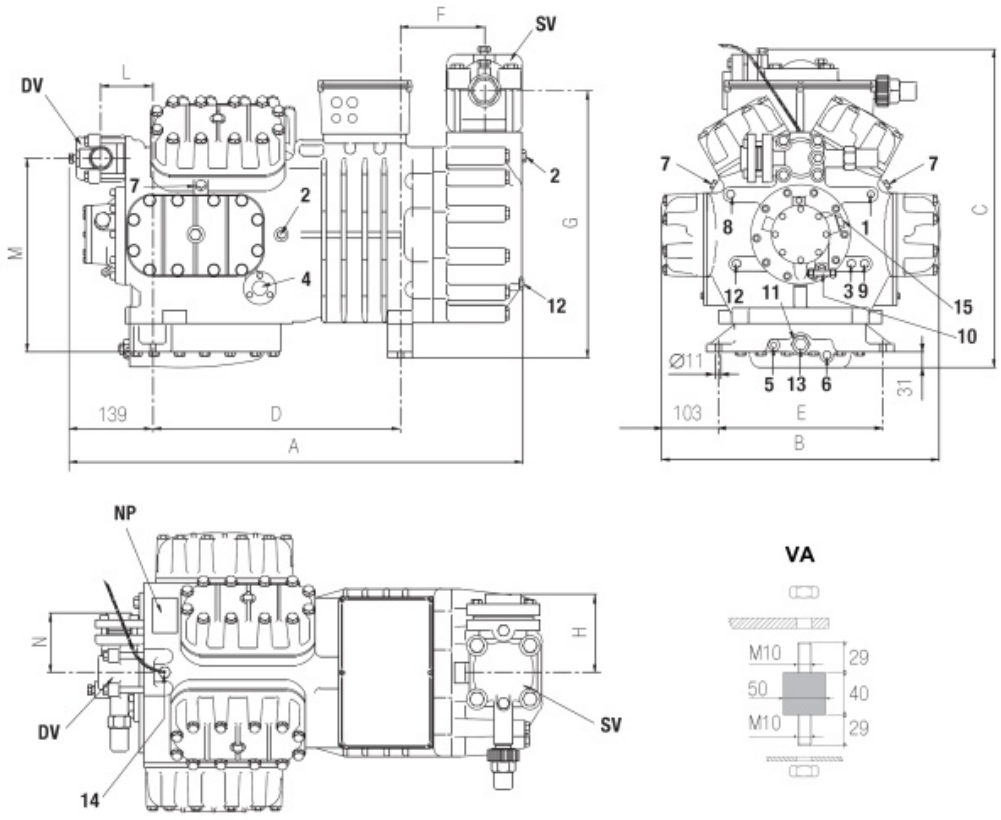
t_c \ t_e	12.5	7.5	5	0	-5	-10	-15	-20	-25
30	302 660	276 800	229 920	189 070	153 750	123 450	97 670	75 900	57 650
40	267 390	244 190	202 220	165 740	134 250	107 250	84 230	64 680	48 110
45	249 880	228 010	188 510	154 230	124 670	99 330	77 700	59 280	43 560
50	232 470	211 940	174 920	142 850	115 230	91 550	71 320	54 030	30 180

Power input [W]

t_c \ t_e	7.5	0	-10	-20
40	52 620	45 220	38 400	30 280

With head cooling
With liquid injection or oil cooler

Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]



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

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