Type: Semi-hermetic piston tandem compressors
Producer: Frascold
Series: SS

Model: SS 10 51 Y

Technical data

Nominal motor power [kW/HP]:	15 / 20
Cylinder count:	8
Displacement [m³/h]:	100,86
Cylinder capacity [cm³]:	144,92
Cylinder bore [mm]:	62
Cylinder stroke [mm]:	48
RPM [min^{-1}]:	1450
Weight net [kg]:	245
Weight gross [kg]:	271
Oil charge [dm³]:	6,6

Electrical data

	DOL Y Y	PWS Y / Y
Power supply [V/~/Hz]:	400V/3/50Hz	400V/3/50Hz
Locked rotor current [A]:	86,1	56,8
Max. operating current [A]:	21	21

Connections

	milimeters	inches
Suction line:	67	2 5/8"
Discharge line:	28,6	1 1/8"

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R22

Cooling capacity [W]

t_c \ t_e	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	72 580	58 780	47 060	37 180	28 900	22 040	16 420	11 880	8 340
40	65 060	52 220	41 360	32 280	24 720	18 520	13 500	9 500	6 460
45	61 240	48 920	38 540	29 860	22 700	16 840	12 120	8 380	5 580
50	57 400	45 600	35 720	27 480	20 700	15 200	10 780	7 340	-

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
30	92 020	76 360	69 400	56 940	46 260	37 160	29 460	22 940
40	82 760	68 540	62 200	50 840	41 100	32 800	25 740	19 760
45	78 020	64 540	58 500	47 720	38 460	30 560	23 840	18 160
50	73 220	60 460	54 760	44 540	35 780	28 280	21 920	16 520

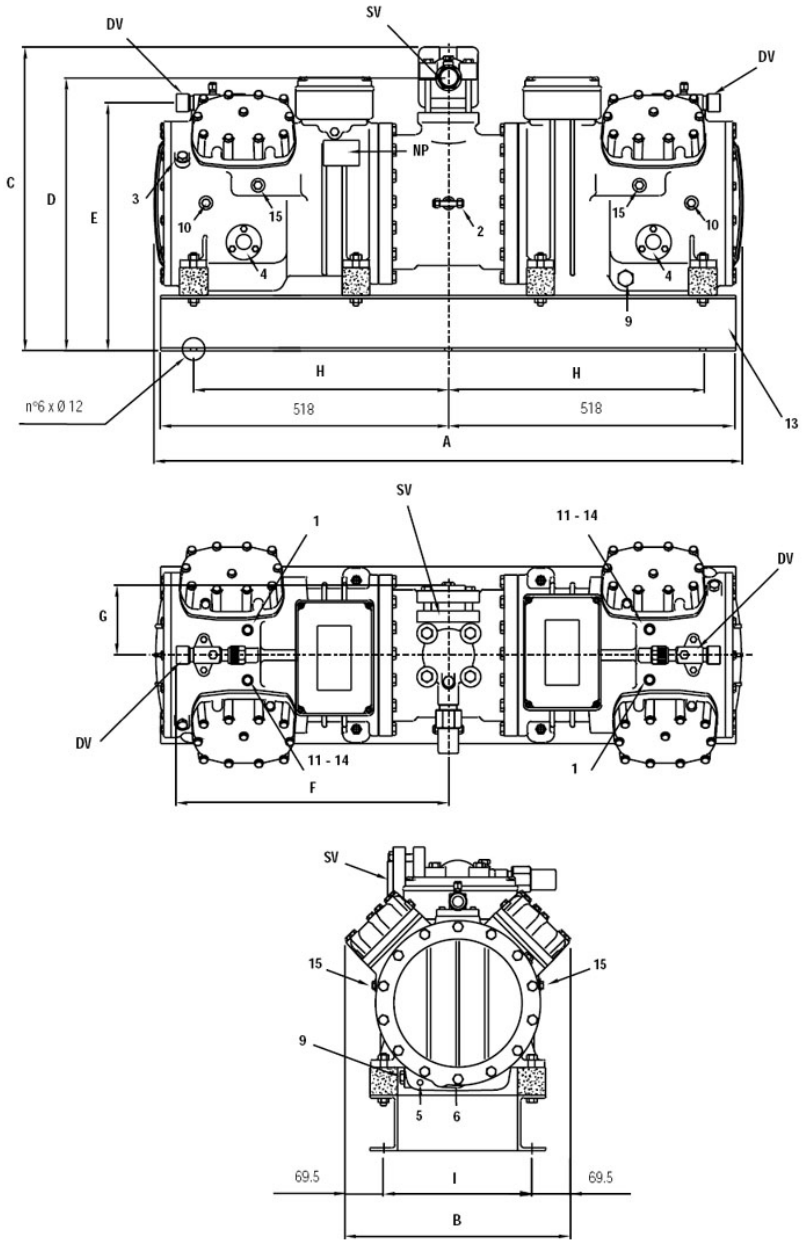
Operating conditions: suction gas temperature 20ºC, 0K subcooling
t_c - Condensing temperature [ºC]
t_e - Evaporating temperature [ºC]

R404A/R507

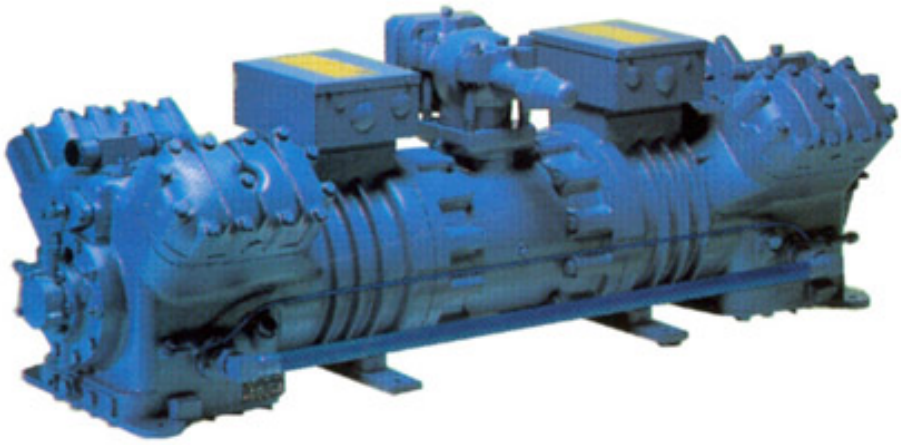
Cooling capacity [W]

t_c \ t_e	-5	-10	-15	-20	-25	-30	-35	-40	-45
30	79 740	66 400	54 600	44 500	35 760	28 460	22 140	16 900	12 140
40	69 160	57 420	47 000	38 080	30 360	23 880	18 280	13 620	9 400
45	-	52 720	43 060	34 760	27 560	21 540	16 320	11 980	8 040
50	-	-	38 780	31 180	24 580	19 040	14 240	10 260	-

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



A	1059 mm
B	405 mm
C	546 mm
D	491 mm
E	448 mm
F	478 mm
G	125 mm
H	305 mm
I	266 mm



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