

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

Model: VV 20 59 Y

Technical data

Nominal motor power [kW/HP]:	30 / 40
Cylinder count:	8
Displacement [m ³ /h]:	116,96
Cylinder capacity [cm ³]:	169,07
Cylinder bore [mm]:	62
Cylinder stroke [mm]:	56
RPM [min ⁻¹]:	1450
Weight net [kg]:	352
Weight gross [kg]:	380
Oil charge [dm ³]:	9

Electrical data

	<u>DOL Y Y</u>	<u>PWS Y / Y</u>
Power supply [V/~ / Hz]:	400V/3/50Hz	400V/3/50Hz
Locked rotor current [A]:	146	96,7
Max. operating current [A]:	37	37

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:	67	2 5/8"
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	158 220	133 520	122 420	102 420	85 120	68 740	54 960	43 440	33 880	26 000
40	143 480	120 960	110 820	92 540	76 720	61 480	48 700	38 080	29 340	22 180
45	136 020	114 600	104 960	87 560	72 480	57 820	45 600	35 440	27 120	20 340
50	128 460	108 160	99 020	82 520	68 220	54 180	42 480	32 840	24 920	18 520

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	143 000	131 100	110 000	91 680	76 120	62 380	50 600	40 420	31 920
40	124 120	113 720	95 240	79 160	65 460	53 340	42 940	33 940	26 400
45	114 220	104 620	87 540	72 640	59 940	48 660	39 000	30 620	23 600
50	103 340	94 640	79 100	65 520	53 920	43 620	34 760	27 080	20 640

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R407C

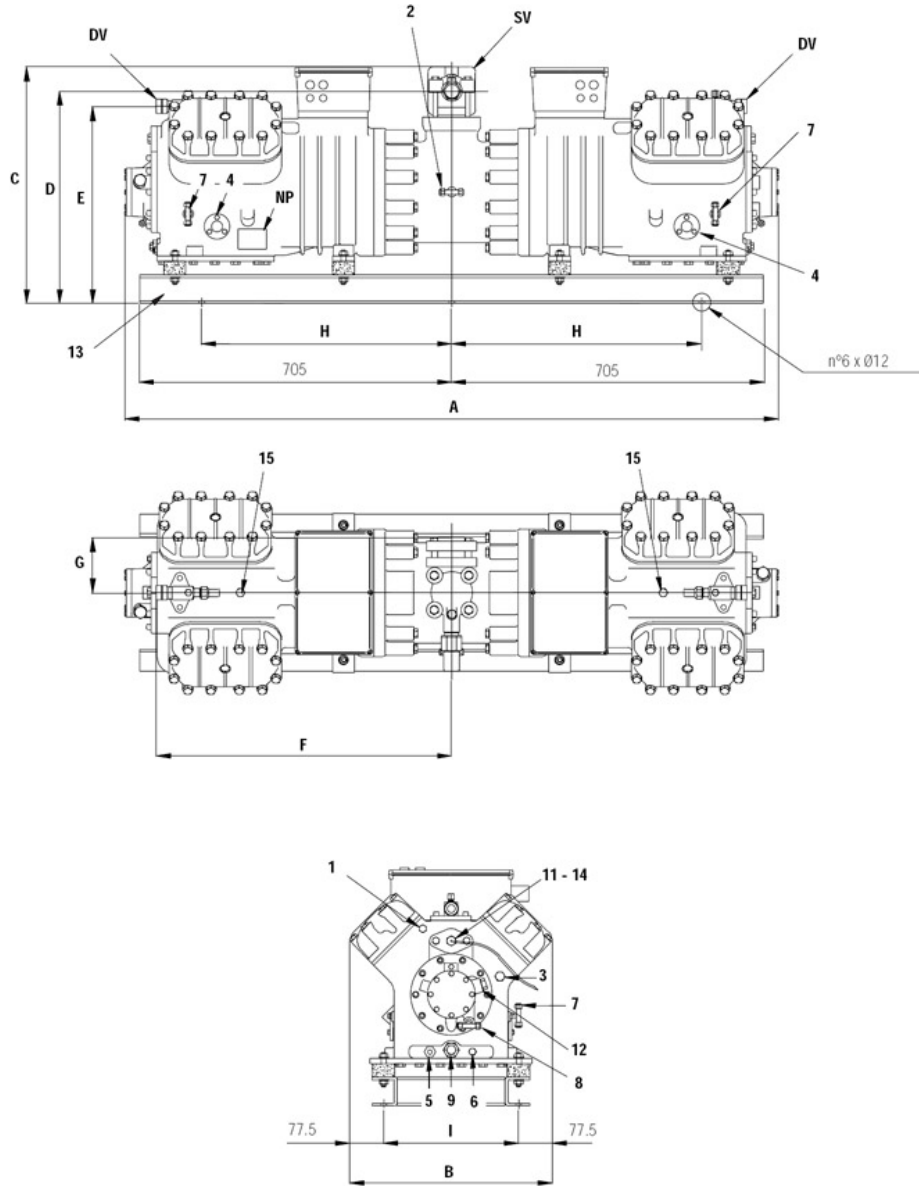
Cooling capacity [W]

$t_c \setminus t_e$	12.5	7.5	5	0	-5	-10	-15	-20	-25
30	164 300	136 460	124 100	101 960	82 980	66 760	52 980	41 280	31 440
40	146 500	121 320	110 120	90 060	72 820	58 100	45 560	34 920	25 940
45	137 180	113 400	102 820	83 840	67 540	53 600	41 720	31 620	23 120
50	127 560	105 240	95 300	77 460	62 120	49 000	37 800	28 280	20 260

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



A	1477 mm
B	460 mm
C	535 mm
D	480 mm
E	445 mm
F	667 mm
G	125 mm
H	565 mm
I	305 mm

