

Type: Semi-hermetic piston tandem compressors

Producer: Frascold

Series: VV

## Model: VV 15 59 Y

### Technical data

|                                       |         |
|---------------------------------------|---------|
| Nominal motor power [kW/HP]:          | 22 / 30 |
| Cylinder count:                       | 8       |
| Displacement [m <sup>3</sup> /h]:     | 116,96  |
| Cylinder capacity [cm <sup>3</sup> ]: | 169,07  |
| Cylinder bore [mm]:                   | 62      |
| Cylinder stroke [mm]:                 | 56      |
| RPM [min <sup>-1</sup> ]:             | 1450    |
| Weight net [kg]:                      | 348     |
| Weight gross [kg]:                    | 376     |
| Oil charge [dm <sup>3</sup> ]:        | 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]:   | 118            | 77,8             |
| Max. operating current [A]: | 31             | 31               |

### Connections

|                 | <u>milimeters</u> | <u>inches</u> |
|-----------------|-------------------|---------------|
| Suction line:   | 67                | 2 5/8"        |
| Discharge line: | 28,6              | 1 1/8"        |

R22

**Cooling capacity [W]**

| $t_c \setminus t_e$ | 5       | 0       | -5     | -10    | -15    | -20    | -25    | -30    | -35    | -40    | -45    |
|---------------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 30                  | 122 980 | 103 040 | 85 780 | 69 420 | 55 660 | 44 140 | 34 560 | 26 680 | 20 240 | 15 020 | 11 120 |
| 40                  | 111 600 | 93 360  | 77 580 | 62 240 | 49 400 | 38 740 | 29 940 | 22 760 | 16 960 | 12 320 | 8 960  |
| 45                  | 105 840 | 88 480  | 73 440 | 58 620 | 46 280 | 36 080 | 27 680 | 20 880 | 15 400 | 11 040 | 7 940  |
| 50                  | 100 000 | 83 520  | 69 240 | 55 020 | 43 200 | 33 440 | 25 480 | 19 040 | 13 880 | 9 820  | -      |

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

 $t_c$  - Condensing temperature [°C] $t_e$  - Evaporating temperature [°C]

R404A/R507

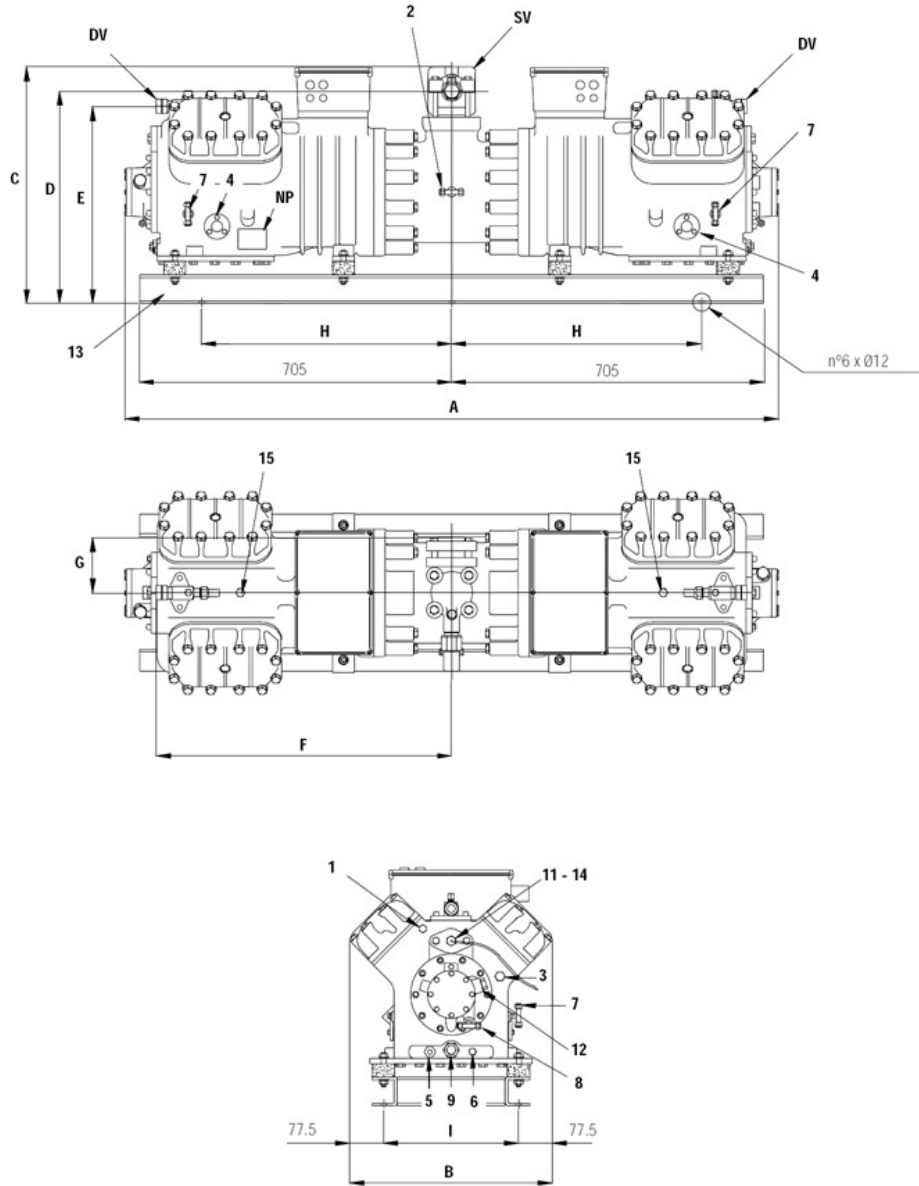
**Cooling capacity [W]**

| $t_c \setminus t_e$ | -5     | -10    | -15    | -20    | -25    | -30    | -35    | -40    | -45    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 30                  | 92 260 | 76 740 | 63 020 | 51 260 | 41 100 | 32 600 | 25 260 | 19 160 | 13 620 |
| 40                  | 79 880 | 66 200 | 54 100 | 43 720 | 34 740 | 27 220 | 20 700 | 15 280 | 10 380 |
| 45                  | 73 420 | 60 740 | 49 480 | 39 840 | 31 480 | 24 460 | 18 380 | 13 340 | 8 740  |
| 50                  | 66 340 | 54 760 | 44 480 | 35 640 | 27 980 | 21 540 | 15 920 | 11 320 | -      |

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  |

