

**Type: Semi-hermetic piston two stage compressors**

**Producer: Frascold**

**Series: S,V,Z**

## Model: Z 30 102 51 Y

### Technical data

|                                       | <u>stage I</u> | <u>stage II</u> |
|---------------------------------------|----------------|-----------------|
| Cylinder bore [mm]:                   | 82             | 82              |
| Cylinder count:                       | 4              | 2               |
| Displacement [m <sup>3</sup> /h]:     | 102,92         | 51,46           |
| Cylinder capacity [cm <sup>3</sup> ]: | 295,74         | 295,74          |
| Nominal motor power [kW]:             |                | 22              |
| Nominal motor power [HP]:             |                | 30              |
| Cylinder stroke [mm]:                 |                | 56              |
| RPM [min <sup>-1</sup> ]:             |                | 1450            |
| Oil charge [dm <sup>3</sup> ]:        |                | 7,5             |
| Weight net [kg]:                      |                | 239             |
| Weight gross [kg]:                    |                | 251             |
| Packing volume [dm <sup>3</sup> ]:    |                | 450             |

### Electrical data

|                             | <u>DOL Y Y</u> | <u>PWS Y / YY</u> |
|-----------------------------|----------------|-------------------|
| Power supply [V/~/Hz]:      | 400/3/50       | 400/3/50          |
| Locked rotor current [A]:   | 180            | 111               |
| Max. operating current [A]: | 53             | 53                |

### Connections

|                 | <u>milimeters</u> | <u>inches</u> |
|-----------------|-------------------|---------------|
| Króciec ssawny: | 54                | 2 1/8"        |
| Discharge line: | 35                | 1 3/8"        |

R22

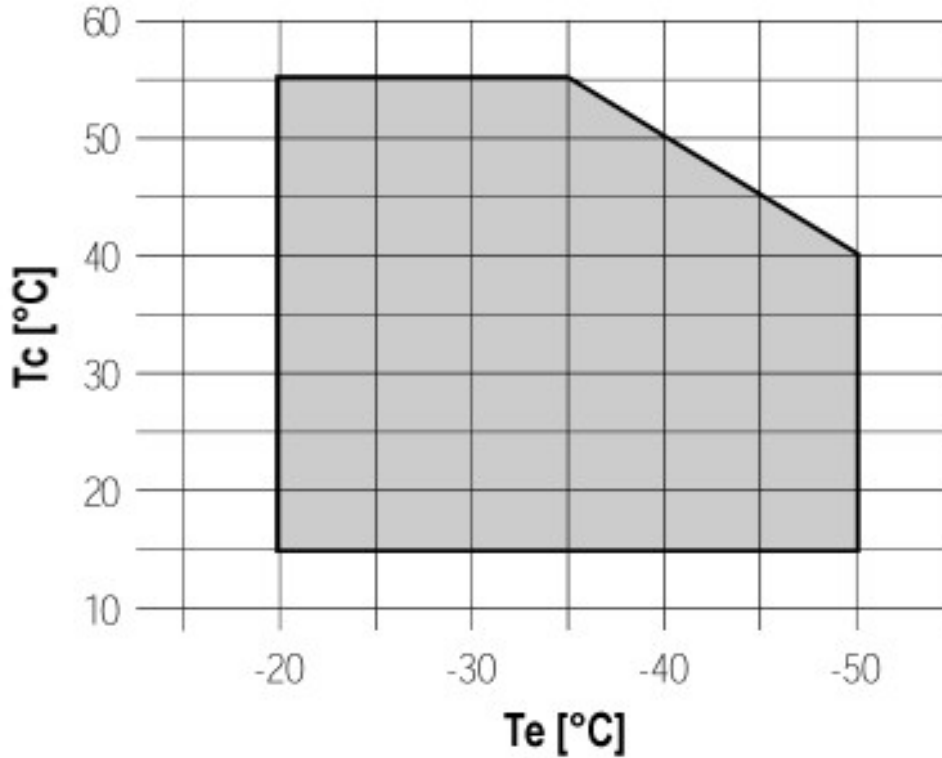
### Cooling capacity [W]

| $t_c \setminus t_e$ | -20    | -25    | -30    | -35    | -40    | -45    | -50    |
|---------------------|--------|--------|--------|--------|--------|--------|--------|
| 30                  | 44 520 | 35 860 | 28 640 | 22 670 | 17 740 | 13 730 | 10 500 |
| 35                  | 42 750 | 34 480 | 27 570 | 21 850 | 17 120 | 13 270 | 10 160 |
| 40                  | 40 970 | 33 080 | 26 490 | 21 020 | 16 490 | 12 790 | 98 100 |
| 45                  | 39 160 | 31 660 | 25 390 | 20 160 | 15 840 | 12 310 | -      |
| 50                  | 37 330 | 30 220 | 24 260 | 19 290 | 15 170 | -      | -      |

### Power input [W]

| $t_c \setminus t_e$ | -20    | -30    | -40    | -50    |
|---------------------|--------|--------|--------|--------|
| 40                  | 21 040 | 17 200 | 13 460 | 10 020 |

### Application limits



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

$t_c$  - Condensing temperature [°C]

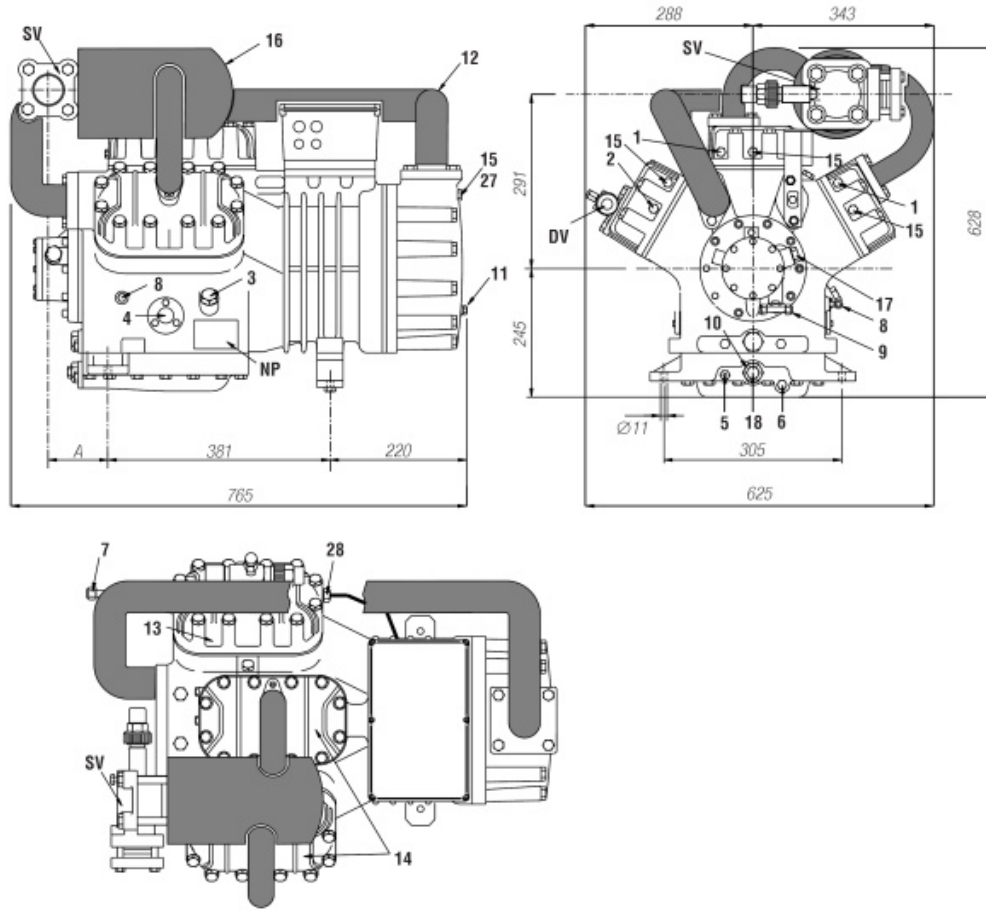
$t_e$  - Evaporating temperature [°C]

Phone : + 90 232 224 85 10-11

[www.oncusogutma.com](http://www.oncusogutma.com)

Address : Uluçreis Cd.No:6 Kısık Sanayi Sitesi Menderes/İZMİR

Email address :[info@oncusogutma.com](mailto:info@oncusogutma.com)



A 108 mm

- |                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| 1: low pressure plug                          | 2: high pressure plug                    |
| 3: oil charge plug                            | 4: oil level sight glass                 |
| 5: crankcase heater seat                      | 6: oil drain                             |
| 7: connection for liquid injection valve      | 8: oil pressure switch connection (l.p.) |
| 9: oil pressure switch connection (h.p.)      | 10: oil filter                           |
| 11: oil return plug                           | 12: 1st-2nd stage manifold               |
| 13: 2nd stage head                            | 14: 1st stage head                       |
| 15: mean pressure connection                  | 16: suction manifold                     |
| 17: electronic oil pressure switch connection | 18: magnetic plug                        |
| 27: external equalizer liquid injection       | 28: maximum discharge temperature sensor |
| DV: discharge valve                           | NP: name plate                           |
| SV: suction valve                             |                                          |

