

**Type: Semi-hermetic twin screw compressors**

**Producer: Frascold**

**Series: CXH**

## **Model: CXH51 140-538 Y**

### **Technical data**

|                                   |              |
|-----------------------------------|--------------|
| Nominal motor power [kW/HP]:      | 104 / 140    |
| Displacement [m <sup>3</sup> /h]: | 538          |
| Capacity control [%]:             | 25-50-75-100 |
| RPM [min <sup>-1</sup> ]:         | x            |
| Weight net [kg]:                  | 878          |
| Weight gross [kg]:                | 938          |
| Oil charge [dm <sup>3</sup> ]:    | 22           |

### **Electrical data**

|                                    |              |
|------------------------------------|--------------|
| Power supply [V/~ /Hz]:            | 380-420/3/50 |
| Locked rotor current (P.W.S.) [A]: | 221          |
| Locked rotor current (D.O.L.) [A]: | 950          |
| Max. operating current [A]:        | 579          |
| Max. power input [kW]:             | 135          |

### **Connections**

|                 | <u>milimeters</u> | <u>inches</u> |
|-----------------|-------------------|---------------|
| Suction line:   | DN80              | DN80          |
| Discharge line: | 104               | 4 1/8         |

R134a

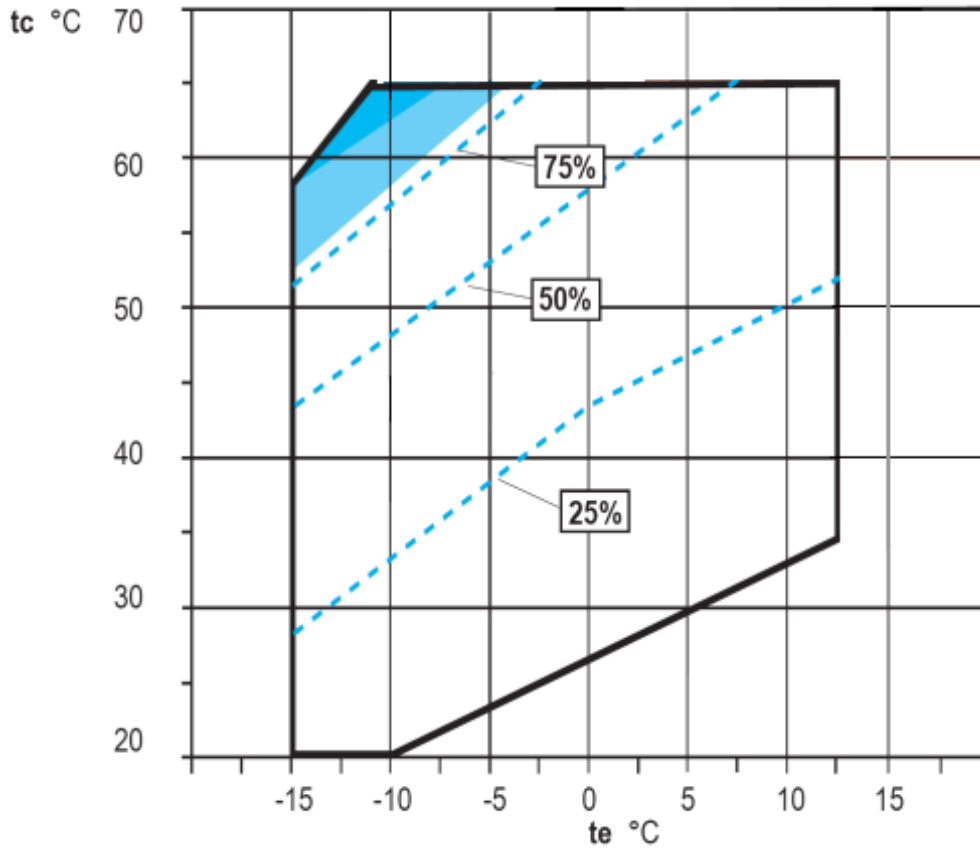
**Cooling capacity [W]**

| $t_c \setminus t_e$ | 12.5    | 10      | 5       | 0       | -5      | -10     | -15     |
|---------------------|---------|---------|---------|---------|---------|---------|---------|
| 30                  | -       | -       | 409 260 | 335 920 | 270 800 | 220 020 | 175 090 |
| 40                  | 488 340 | 444 540 | 366 280 | 299 100 | 241 970 | 193 450 | 152 730 |
| 50                  | 429 880 | 390 390 | 319 820 | 259 510 | 208 320 | 165 040 | 128 730 |
| 55                  | 399 210 | 361 970 | 295 610 | 238 790 | 190 580 | 149 960 | 115 910 |

**Power input [W]**

| $t_c \setminus t_e$ | 12.5   | 10     | 5     | 0     | -5    | -10   | -15   |
|---------------------|--------|--------|-------|-------|-------|-------|-------|
| 30                  | -      | -      | 63.50 | 60.70 | 58.40 | 56.50 | 54.90 |
| 40                  | 77.80  | 76.50  | 74.00 | 71.70 | 69.60 | 67.70 | 66.00 |
| 50                  | 92.70  | 91.70  | 89.50 | 87.10 | 84.80 | 82.70 | 80.90 |
| 55                  | 102.60 | 101.60 | 99.30 | 96.70 | 94.30 | 92.20 | 90.70 |

## Application limits



With liquid injection or oil cooler

Operating conditions: suction gas temperature 10K, 0K subcooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

