

WATER CHILLERS *MINIBOX*

The new range of water cooled chillers. Each unit is available in three different versions according to the working temperature:

- a) Version M operating between -5°C and +25°C
- b) Version M/M operating between -5°C and +50°C
- c) Version M/T operating between -5°C and +90°C



MAIN FEATURES

- Multi-stage stainless steel pumps ensure the optimal water flow
- Hermetic Scroll compressor of extremely low noise level, thus allowing the installation in the production hall
- Evaporators, condensers, water tanks and pumps are of stainless steel, making chillers also suitable for the cooling of laser sources
- High efficiency oversized condensers (even with 40°C condensing water temperature)
- Automatic water top up
- Aluminium frame and cover panels made of galvanised steel coated with polyester paint
- Microprocessor accurate temperature control
- Floor space smaller than 0,5 m²
- In the M/T version following heating capacities are available: 3-4,5-6-9-12-15 kW
- 400V/3PH/50 Hz standard power supply. Power supply different from standard on request.

OTHER FEATURES

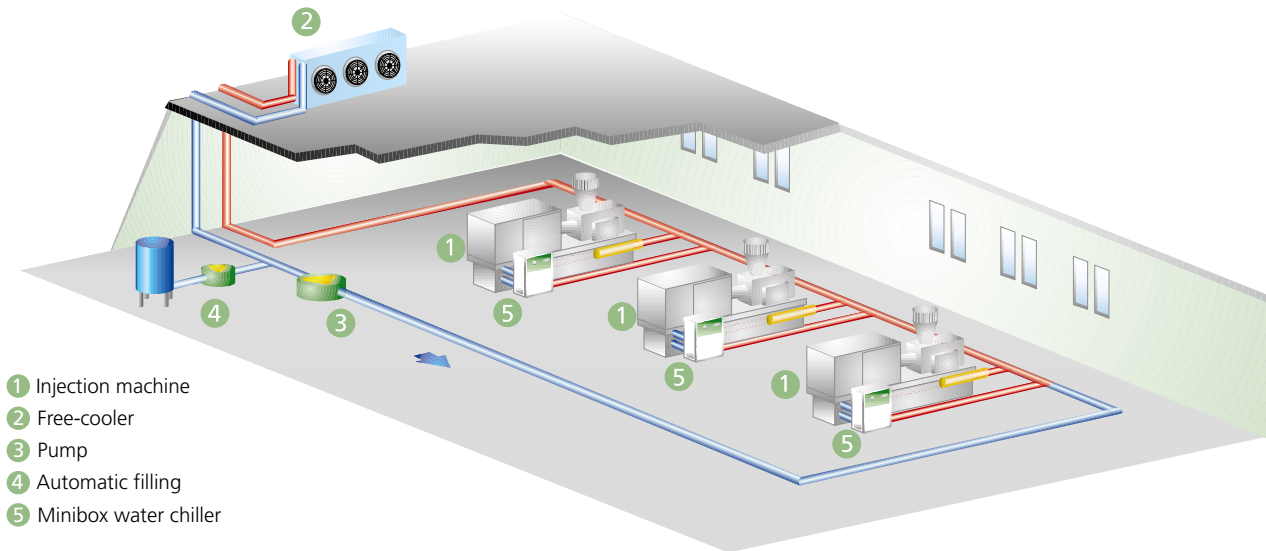
- Phase sequence electronic control including an alarm in case of lack of one phase and in case of variations exceeding $\pm 10\%$ of the nominal voltage
- Low pressure safety switch
- Condensing pressure valve for the automatic control of water flow to reduce water consumption and at the same time to optimize the chiller operating conditions
- Automatic by-pass between supply and return pipe
- Freeze protection thermostat for continuous control of the water temperature at the evaporator outlet to prevent water freezing
- Continuous control of the water flow to the process
- CE conform standard components and assembly
- Compressor operating time control
- 4 swivelling wheels

TECHNICAL DATA

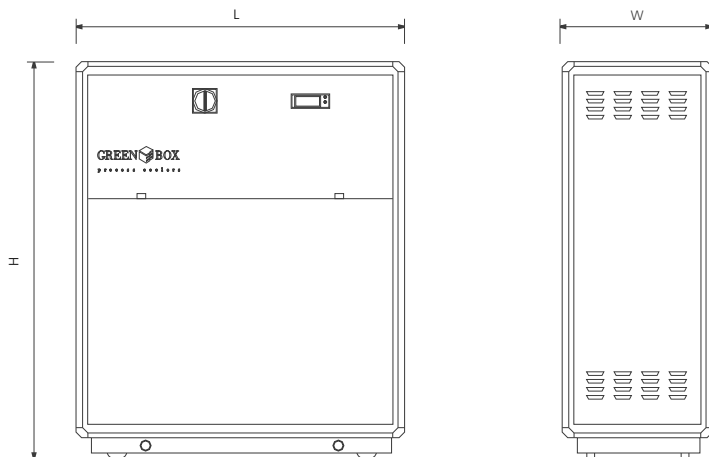
| MODEL | | | MINIBOX 2 | MINIBOX 3 | MINIBOX 5 | MINIBOX 7 | MINIBOX 9 | MINIBOX 12 |
|-------------------|------------|--------|-----------|-----------|-----------|-----------|-----------|------------|
| COOLING CAPACITY* | kW | | 6,5 | 10,1 | 14,5 | 21,0 | 26,1 | 37,4 |
| | kcal/h | | 5650 | 8700 | 12500 | 18100 | 22500 | 32200 |
| COMPRESSOR POWER | kW | | 1,39 | 2,10 | 2,98 | 4,39 | 5,66 | 7,95 |
| PUMP | power | kW | 0,45 | 0,45 | 0,45 | 0,55 | 0,55 | 1,1 |
| | water flow | l/min | 0/70 | 0/70 | 0/70 | 0/133 | 0/133 | 0/216 |
| | pressure | bar | 3,3/1,2 | 3,3/1,2 | 3,3/1,2 | 3,3/1,0 | 3,3/1,0 | 3,6/1,4 |
| CONDENSER POWER | kW | | 7,7 | 11,6 | 16,7 | 24,7 | 29,9 | 43,5 |
| MAX. WATER FLOW | l/min. | | 22 | 33 | 48 | 71 | 86 | 125 |
| WATER TANK | litres | | 42 | 42 | 42 | 42 | 144 | 144 |
| PIPE CONNECTIONS | process | BSP | 3/4" | 3/4" | 3/4" | 3/4" | 1" 1/4 | 1" 1/4 |
| | condenser | BSP | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" 1/4 |
| DIMENSIONS | length | (L) mm | 920 | 920 | 920 | 920 | 920 | 920 |
| | width | (W) mm | 500 | 500 | 500 | 500 | 640 | 640 |
| | height | (H) mm | 1100 | 1100 | 1100 | 1100 | 1430 | 1430 |
| NET WEIGHT | kg | | 130 | 143 | 150 | 155 | 210 | 260 |

* Process water at 15°C and condensing water at 35°C.

Green Box srl reserves the right to change the specification of these machines without previous notice.



- ① Injection machine
- ② Free-cooler
- ③ Pump
- ④ Automatic filling
- ⑤ Minibox water chiller



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