

## SPECIFICATIONS: SL SMART Inverter MODEL

### Construction drawing for specifications

The water-cooled Bi2 SMART fan coil unit for cooling and heating with Total Flat design has a lower air intake system and is just 12.9 cm deep, making it the most slimline on the market.

The Bi2 SMART is suitable for vertical installation on a wall or on the floor with the foot kit; or for horizontal installation on the ceiling with the horizontal drip tray and foot kit.

### Description of construction for specifications

The SL SMART consists of:

- a cabinet in galvanised steel, air outlet grille in painted steel, aesthetic sides in ABS
- frame in galvanised sheet metal
- a heat exchange coil comprising copper pipes and corrugated fins in hydrophilically treated aluminium secured by means of cold expansion.
- air vent valves on the coil manifolds
- fan assembly with tangential fan in synthetic material with staggered fins
- high efficiency Inverter DC motor on flexible supports with electronic control of the rotational speed
- lower air intake
- honeycomb filter in polypropylene on the air intake; the filter can be washed with water or compressed air
- drip tray in PVC suitable for vertical installation
- hydraulic connections on the left, reversible ones on the right when requested in the order or during the installation phase
- air outlet grille in painted steel that can be installed in either of two positions
- structure of limited depth (only 129 mm)
- colour: RAL 9010 white
- $\frac{3}{4}$ " Eurocone hydraulic connections.

### Electronic controls

**B0686** Bi2 Inverter control kit on the unit.

Control with adjustable room thermostat, selection of operating mode (ventilation, summer, winter, automatic) and ventilation program (minimum, maximum, night and modulated), minimum water sensor function. LED bar temperature selector switch. It has an input for connecting a presence sensor, a 230VAC output for control of an electrovalve, and contacts for enabling the boiler or chiller. Compatible with Aquadue control for heat pump systems by Olimpia Splendid.

**B0673** Autonomous electronic control kit on the unit.

Control with adjustable room thermostat, selection of operating mode (ventilation, summer, winter, automatic) and ventilation program (minimum, maximum, night and modulated), minimum water sensor function.

It has an input for connecting a presence sensor and two 230VAC outputs for control of 2 electrovalves.

**B0774** Touch design control kit on the unit. Backlit display with indication of the required temperature, real touch buttons, selection of operating mode and ventilation speed. Control with adjustable room thermostat, selection of operating mode (ventilation, summer, winter, automatic) and ventilation program (minimum, maximum, night and modulated), minimum water sensor function. It has an input for connecting a presence sensor contact and two 230VAC outputs for control of electrovalves. Remote control provided. Compatible with Aquadue control for heat pump systems by Olimpia Splendid.

**B0685** Bi2 Inverter control kit for remote control.

The B0736, or a controller with compatible communication protocol, transmits the main operating parameters, the set point and the room temperature to all the fan coils on the network for seamless operation.

It has a 230VAC output for control of an electrovalve, two voltage-free contacts for control of a chiller or heater, and a presence input. Operation with MODBUS, RS485 ASCII protocol (available on request). Compatible with Aquadue control for heat pump systems by Olimpia Splendid. Compatible with the MyHome domotic system by Bticino.

**B0756** Kit for remote control via a 0-10VDC analogue input or five power contacts. It has a 230VAC output for control of an electrovalve and a water sensor input with minimum water sensor function (in the case of contacts).

**B0151** Wall control kit with thermostat, summer/winter selector switch and speed selector switch. Can be combined with the B0756 control kit.

Wall thermostat with room sensor, On-Off selector switch, fan three-speed selector switch and summer/winter selector switch. Temperature adjustment range from 5 °C to 30 °C. 230 V power supply. Two 230VAC outputs for hot water electrovalve and cold water electrovalve and a water temperature probe input.

**B0152** Recessed LCD control kit with room sensor and thermostat, summer/winter selector switch and speed selector switch. Can be combined with the B0756 control kit.

Recessed electronic thermostat with room sensor, On-Off selector switch, fan speed selector switch (min, med, max and auto), room temperature, minimum water sensor function and summer/winter selector switch. Temperature adjustment range from 5 °C to 35 °C. 230 VAC power supply.

**B0736** LCD chrono-thermostat wall remote control kit. Can be combined with the B0685 control kit.

Wall LCD chrono-thermostat control for MODBUS, RS485 connection. Control of up to 30 units. Selection of required temperature, operating mode, ventilation speed, programmable manual/chrono-thermostat mode. Room sensor in the control. Backlit LCD display: Presence contact input. The control has a 230V/12 VAC power transformer with double insulation and buffer battery.

Wall installation with spacing between holes compatible with standard 503 recessed box. Compatible with Aquadue control for heat pump systems by Olimpia Splendid.

## **Hydraulic kits**

**B0139** Kit of 2-way valves with thermoelectric actuator.

The kit consists of a two-way valve with thermoelectric actuator and a holder; the former controls the heat emission of the terminal by regulating the flow of water; the holder minimises pressure drops in the system.

**B0641** Kit of 2-way valves with thermoelectric actuator and bypass branch with overpressure valve.

The kit consists of a valve with thermoelectric actuator, a holder and a bypass with overpressure valve. The former controls heat emission of the terminal by regulating the flow of water; the holder minimises pressure drops in the system; and the bypass keeps the system balanced even when the cabinet is excluded. This kit is an alternative to the two-way electrovalve kit.

**B0635** Kit of 3-way valves with thermoelectric actuator.

The kit consists of a three-way diverter valve with thermoelectric actuator, and a holder.

The former controls the heat emission of the terminal by regulating the flow of water; the holder minimises pressure drops in the system; the bypass keeps the water circulating in the system. This kit is an alternative to the two-way electrovalve kit.

**B0205** Manual two-way valve kit.

The kit consists of a valve and a holder; the former is for manually excluding the cabinet from the system, while the holder minimises pressure drops in the system.

**B0204** Manual two-way valve insulation kit.

Avoids the formation of condensation during operation in cooling mode (already included in the thermoelectric hydraulic kits).

**B0501** Eurocone 3/4 spacer kit (1 piece)

Available for all multilayer pipes d. 20 mm (which do not allow for adequate bending radii), 1 or 2 kits for the unit depending on the type of installation.

**B0200. B0201** Pair of adaptors.

These can be used to convert the 3/4" Eurocone connection of the Bi2 terminals into a standard 1/2" (B0200) or 3/4" (B0201) threaded gas connection.

**B0203** 90° Eurocone U-bend.

Facilitates connection in the case of hydraulic connections with pipes in the wall.

**Electrical kits**

**B0682 (200, 400, 600) B0683 (800, 1000)** Control connection extension kit.

Cable for connecting the sensor of the motor to the power supply, in the case of installations where the position of the hydraulic connections is rotated from left to right.

**Aesthetic kits**

**B0682** Foot kit for Bi2 Smart

Kit with two aesthetic feet for covering any pipes leading out of the floor. Available in white.

**B0683** Kit of floor-anchoring brackets for Bi2 Smart

Kit of brackets for supporting the terminal and anchoring it to the floor (for applications in front of windows or on non-load-bearing walls). It also acts as an aesthetic kit (white).

**B0677 (200). B0678 (400). B0679 (600). B0690 (800). B0691 (1000)** Back panel in painted sheet metal (for applications in front of windows).

**Horizontal installation on ceiling**

**B0520 (200). B0521 (400). B0522 (600). B0523 (800). B0524 (1000)** Kit for installing Bi2 units on the ceiling (excluding the SLR and SLI versions).