



**Bi2**

## THE SYSTEM TERMINALS

For comfort throughout  
the year



## Italian design winner of numerous international awards

### Ultraslim and slim innovation

Attention to design and harmonious integration into the architecture has led Olympia Splendid to reinvent system terminals. The first to introduce ultraslim and slim fan coil convectors to the market, today the brand is synonymous of reduced thickness: in just 12.9 or 17.9 cm, Olympia Splendid encompasses year-round comfort.

### Design signed by Italian studios

The Bi2 system terminals boast prestigious names in the world of Italian industrial design. Each product is in fact designed with particular attention to architectural integration and ease of installation, management and maintenance. Olympia Splendid has won 7 international awards for the aesthetics of its fan coil convectors, from 2013 to today.

### Made in Italy quality

Olimpia Splendid production is within its headquarters in Cellatica (BS). The typically Italian attention to detail is a further guarantee of product quality.

ULTRASLIM  
Thickness 12,9 cm



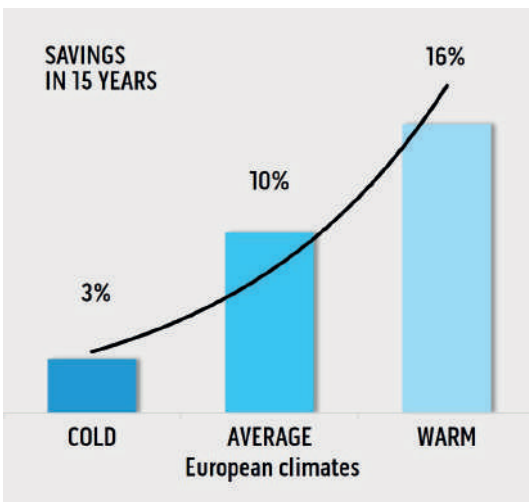
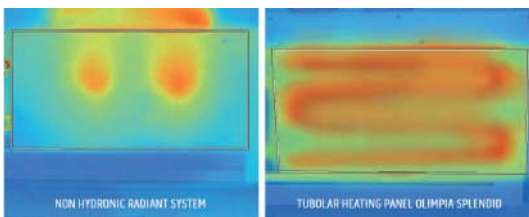
SLIM  
Thickness 17,9 cm





Olimpia Splendid participates in the EUROVENT: FCU program. The products mentioned are available at [www.eurovent-certification.com](http://www.eurovent-certification.com)

## Innovative solutions to rethink the system terminals



### Olimpia Splendid radiant technology

The Bi2 terminals are also available in the fan coil radiator version, with a tubular heating panel, in addition to the coil, which stands out for its superior performance compared to other systems with radiant technology on the market:

- higher radiated power, thanks to the higher average surface temperature;
- amplification of natural convection;
- possibility of static operation (fan off) for the complete absence of noise.

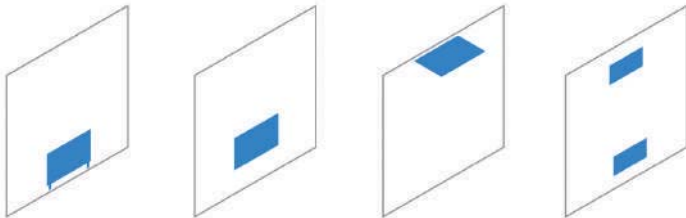
### Comfort and optimised running costs

The slim and ultraslim fan coil radiators offer comfort at least equal to that of floor heating, with greater flexibility, lower installation costs and more economical running, especially in warmer climates. The data shown in the graph refer to a comparative study commissioned by Olimpia Splendid to evaluate the different performances of a system, depending on whether the fan coil radiator type terminals are used rather than the floor heating.

# Installation

## The choice of position

The Bi2 system terminals are extremely versatile and can be installed both on the floor and on a low wall. The SL models, with traditional convection technology, are also suitable for ceiling installation, while the SLW solutions are easily placed on high or low walls, with a considerably reduced footprint, thanks to the console format.



# Operation

## The modes for providing comfort

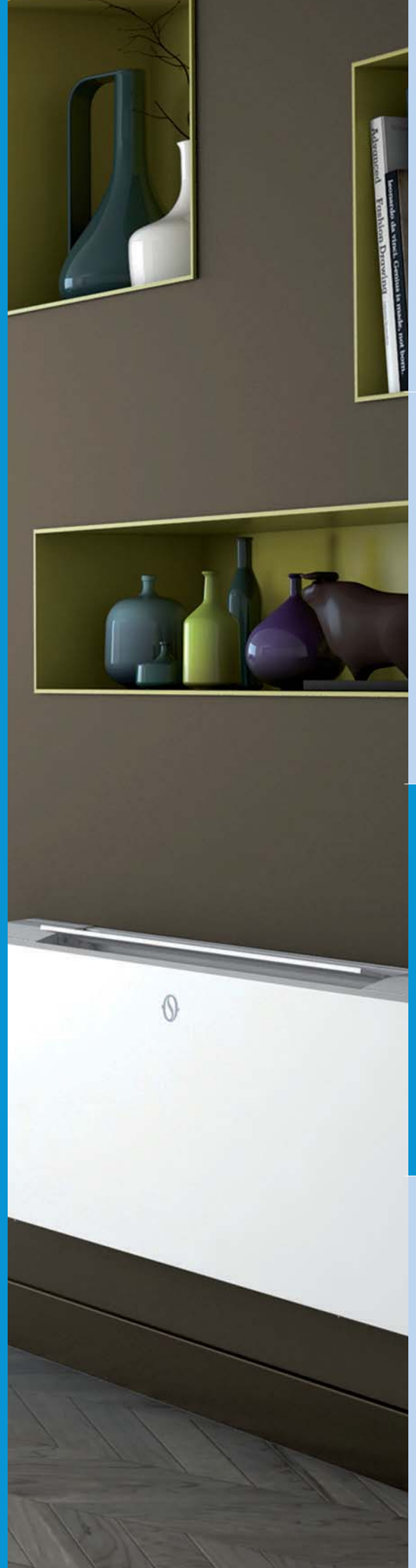
The structure of the fan of the Bi2 terminals and the electric motor that modulates its speed ensure even air distribution and homogeneity of temperature in the environment. The entire range has two operating modes: heating and cooling, with forced convection. In the SLR models, with Olimpia Splendid radiant technology, the heating mode also works in static mode (fan off), with natural convection and radiation from the front panel, for maximum acoustic comfort.



# Maintenance

## How to clean the terminal

The easily removable air filters make cleaning and maintenance of the terminal particularly easy, even in the built-in models.



# Bi2 AIR



## SLR Air inverter - ultraslim



Compatible with:



### RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.



### INTEGRAL DESIGN

Front and side panels are joined for easy installation and maintenance.



### MULTISET CONTROL

Integrated electronics allows touch operation, remote control and home automation connection.

### FEATURES

- Heats, Cools, Dehumidifies and Filters
- Terminal with integrated heating panel
- Integral aesthetics with suction from the lower side
- Front in metal, sides in ABS
- Compact: Thickness min 12.9 cm max 15 cm
- Range consisting of 5 power models
- Brushless DC motor
- Monoblock body for work in comfort
- Motorised steel air delivery flap
- Anti-intrusion grilles on the air intake and outlet
- Extractable filters placed on the air intake
- Remote control supplied (only for TR control)
- Available in the colours:  White RAL 9003
- Installation: floor, wall



### MULTISET CONTROL

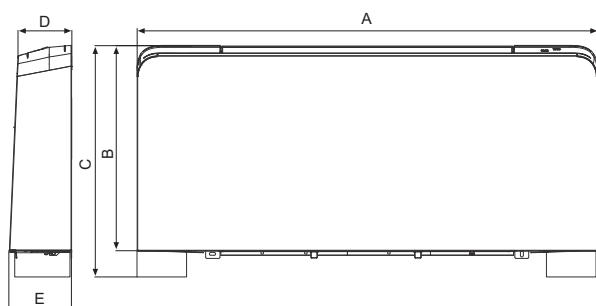
#### TR COMMAND (Touch Remote):

Touch control on the machine and remote control supplied.

By means of a selection of buttons on the machine it is possible to remotise \* with remote control on the wall (chronothermostat cod. B0736, optional) or with home automation, through the Modbus RS485 signal protocol

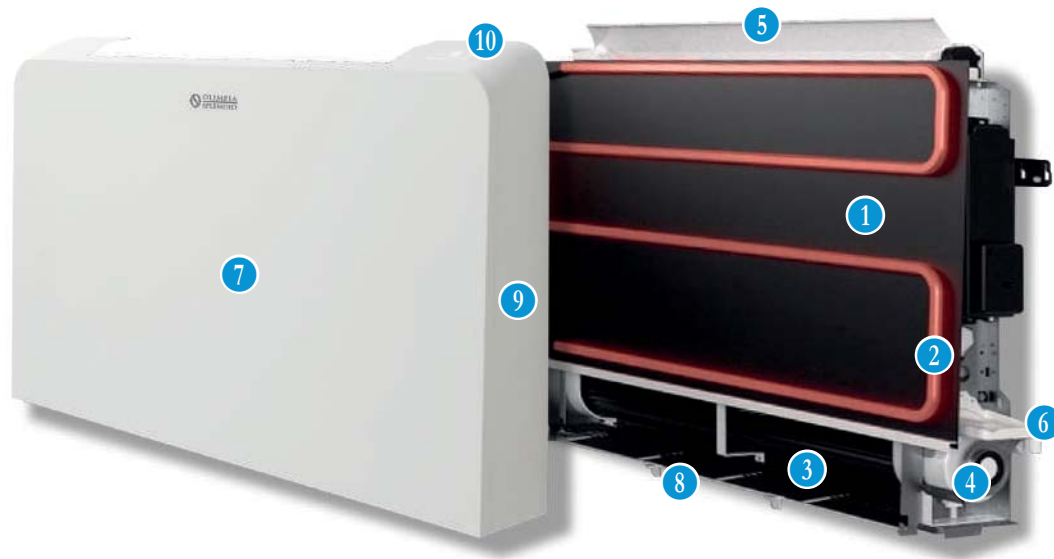
#### AR (Analogic Remote) COMMAND:

Analog control for universal remote control with wall controls or home automation systems, through the 0-10V signal or 4-speed digital.



		200	400	600	800	1000
A	mm	695	895	1095	1295	1495
B	mm	599	599	599	599	599
C	mm	679	679	679	679	679
D	mm	129	129	129	129	129
E	mm	150	150	150	150	150
Net weight	kg	13,5	15,5	19,5	22,5	25,5

\* With the exception of the combination with SIOS Control, in all other cases: Touch control on the machine, air probe on the machine and remote control disabled



- 1 Heat exchange battery
- 2 High efficiency heating panel
- 3 Tangential fan
- 4 DC Brushless electric motor
- 5 Discharge air flap and anti-intrusion delivery grille
- 6 Condensate collection tray
- 7 Front body in electro-galvanised sheet
- 8 Anti-intrusion intake grille
- 9 ABS sides
- 10 Touch control on the machine (TR version)

MODEL		SLR Air inverter - ultraslim																
		200			400			600			800			1000				
SLR Air inverter (with command TR)		cod.	01856			01857			01858			01859			01860			
SLR Air inverter (with command AR)		cod.	01772			01773			01774			01775			01776			
Fan speed			Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	Lower	Middle	High	
Total power output in cooling mode		a27/19 - w7/12 (a) (E)	kW	0.38	0.71	0.82	0.91	1.34	1.74	1.50	2.10	2.54	1.98	2.69	3.29	2.17	3.25	3.78
Sensitive power output in cooling mode		a27/19 - w7/12 (a) (E)	kW	0.26	0.50	0.64	0.65	1.02	1.25	1.10	1.56	1.94	1.54	2.09	2.54	1.71	2.42	2.98
Fluid flow rate		a27/19 - w7/12 (a)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a27/19 - w7/12 (a) (E)	kPa	3.8	10.6	13.1	2.4	5.5	8.2	7.5	14.2	19	7.3	13.8	18.7	5.7	13.1	18.2
Total power output in heating mode		a20/15 - w50/- (b) (E)	kW	0.64	0.84	1.05	1.25	1.65	2.31	1.75	2.56	3.12	2.21	3.10	4.10	3.05	3.77	4.67
Fluid flow rate		a20/15 - w50/- (b)	l/h	66.2	123.3	142.9	157.6	232.0	302.5	259.2	363.1	440.3	341.9	464.7	570.0	374.8	561.4	654.8
Water side head loss		a20/15 - w50/- (b) (E)	kPa	3.2	8.8	10.9	2.0	4.6	6.8	6.2	11.8	15.8	6.1	11.5	15.5	4.7	10.9	15.1
Total power output in heating mode		a20/15 - w45/40 (c) (E)	kW	0.54	0.70	0.88	1.06	1.39	1.94	1.46	2.14	2.60	1.85	2.60	3.44	2.56	3.16	3.91
Fluid flow rate		a20/15 - w45/40 (c)	l/h	91.9	119.9	150.0	181.9	238.1	330.3	250.6	365.7	444.6	316.6	444.8	587.9	438.1	541.0	668.5
Water side head loss		a20/15 - w45/40 (c) (E)	kPa	5.7	8.8	12.2	2.9	4.8	7.9	5.8	11.8	16.0	4.1	8.9	14.2	6.4	9.8	13.9
Absorbed power		(E)	W	5	7	11	6	9	19	7	11	20	8	12	24	9	14	27
Sound Power Lw(A)		(E)	dB(A)	38	45	52	39	46	53	41	47	53	42	48	54	42	48	54
Sound pressure Lp (A)		(d)	dB(A)	29	36	43	30	37	44	32	38	44	33	39	45	33	39	45
Air flow		(f)	m3/h	100	130	160	190	250	320	280	360	460	350	450	575	400	510	650
Battery water content			l	0.47			0.8			1.13			1.46			1.8		
Maximum operating pressure			bar	10			10			10			10			10		
Hydraulic fittings			inches	Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4			Eurocone 3/4		
Electrical power supply			V/ph/Hz	230/1/50			230/1/50			230/1/50			230/1/50			230/1/50		
Max static heating efficiency (50°C)			kW	0.37			0.42			0.5			0.62			0.77		
Max static heating efficiency (70°C)			kW	0.59			0.71			0.84			1.04			1.28		
Water content of the radiant panel			l	0.19			0.27			0.35			0.43			0.50		

The above services refer to the following operating conditions:

(a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C

(b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition

(c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C

(d) Sound pressure level valid for closed rooms with a volume of 100 m3 with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance

(E) Eurovent certified data

(f) Air flow rate measured with clean filters

NEW

# Bi2 AIR

## SLR Air inverter - slim



Compatible with:



### PRO-POWER

Up to 4.85 kW of power, for larger spaces and colder climates.



### RADIANT TECHNOLOGY

Terminal with tubular heating panel for maximum acoustic and climate comfort.



### INTEGRAL DESIGN

Front and side panels are joined for easy installation and maintenance.

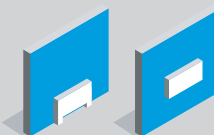


### MULTISET CONTROL

Integrated electronics allows touch operation, remote control and home automation connection.

### FEATURES

- Heats, Cools, Dehumidifies and Filters
- Terminal with integrated heating panel
- Integral aesthetics with suction from the lower side
- Front in metal, sides in ABS
- Compact: Thickness min 17.9 cm max 20 cm
- Range consisting of 2 power models
- Brushless DC motor
- Monoblock body for work in comfort
- Motorised steel air delivery double flap
- Anti-intrusion grilles on the air intake and outlet
- Extractable filters placed on the air intake
- Remote control supplied (only for TR control)
- Available in the colours:  White RAL 9003
- Floor and wall installation



### MULTISET CONTROL

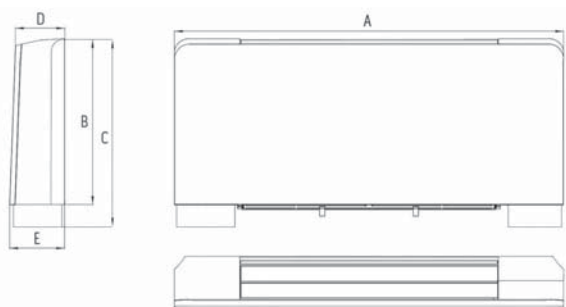
#### TR COMMAND (Touch Remote):

Touch control on the machine and remote control supplied.

By means of a selection of buttons on the machine it is possible to remotise \* with remote control on the wall (chronothermostat cod. B0736, optional) or with home automation, through the Modbus RS485 signal protocol

#### AR (Analogic Remote) COMMAND:

Analog control for universal remote control with wall controls or home automation systems, through the 0-10V signal or 4-speed digital.



		1400	1600
A	mm	1345	1415
B	mm	599	599
C	mm	719	719
D	mm	179	179
E	mm	200	200
Net weight	kg	24,5	26

\* With the exception of the combination with SIOS Control, in all other cases: Touch control on the machine, air probe on the machine and remote control disabled



- 1 Heat exchange battery
- 2 High efficiency heating panel
- 3 Tangential fan
- 4 DC Brushless electric motor
- 5 Discharge air flap and anti-intrusion delivery grille
- 6 Condensate collection tray
- 7 Front body in electro-galvanised sheet
- 8 Anti-intrusion intake grille
- 9 ABS sides
- 10 Touch control on the machine (TR version)

### PRELIMINARY TECHNICAL DATA

MODEL				SLR Air inverter - slim					
				1400			1600		
SLR Air inverter (with command TR)		cod.		02052			02054		
SLR Air inverter (with command AR)		cod.		02053			02055		
Fan speed				Lower	Middle	High	Lower	Middle	High
Total power output in cooling mode	a27/19 - w7/12	(a)	kW	3.05	3.78	4.45	3.28	4.09	4.85
Sensitive power output in cooling mode	a27/19 - w7/12	(a)	kW	2.14	2.69	3.20	2.30	2.90	3.50
Fluid flow rate	a27/19 - w7/12	(a)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss	a27/19 - w7/12	(a)	kPa	19	27.8	37.2	20.9	30.8	41
Total power output in heating mode	a20/15 - w50/-	(b)	kW	3.61	4.53	5.50	3.85	4.87	5.90
Fluid flow rate	a20/15 - w50/-	(b)	l/h	525.6	652.4	769.9	565.2	706	839.2
Water side head loss	a20/15 - w50/-	(b)	kPa	16.2	23.7	31.7	19.4	28.6	35.7
Total power output in heating mode	a20/15 - w45/40	(c)	kW	3.07	3.87	4.70	3.28	4.16	5.05
Fluid flow rate	a20/15 - w45/40	(c)	l/h	527.1	663.4	803.9	563.1	713	863.6
Water side head loss	a20/15 - w45/40	(c)	kPa	17.1	25.8	35.5	20.2	30.8	38.8
Absorbed power			W	6	13	26	6	15	29
Sound Power Lw(A)			dB(A)	38	49	54	39	50	55
Sound pressure Lp (A)		(d)	dB(A)	30	41	46	31	42	47
Air flow		(f)	m <sup>3</sup> /h	460	610	765	490	655	820
Battery water content			l	2.33			2.5		
Maximum operating pressure			bar	10			10		
Hydraulic fittings			inches	Eurocone 3/4			Eurocone 3/4		
Electrical power supply			V/ph/Hz	230/1/50			230/1/50		
Max static heating efficiency (50°C)			kW	0.45			0.5		
Max static heating efficiency (70°C)			kW	0.8			0.9		
Water content of the radiant panel			l	0.43			0.43		

The above services refer to the following operating conditions:




- (a) Cooling mode at standard conditions: air temperature 27°C b.s., 19°C b.u., water inlet temperature 7°C, water outlet temperature 12°C
- (b) Heating mode conditions of use 1: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 50°C, water flow equal to the cooling water standard condition
- (c) Heating mode standard conditions: air temperature 20°C b.s., 15°C b.u. max, water inlet temperature 45°C, water outlet temperature 40°C
- (d) Sound pressure level valid for closed rooms with a volume of 100 m<sup>3</sup> with a reverberation time of 0.5 s and installation on the floor/ceiling, sound emission on 1/4 sphere at 3 m distance
- (e) Eurovent certified data
- (f) Air flow rate measured with clean filters



## ACCESSORIES












### SLR AIR INVERTER - ULTRASLIM E SLIM

## Accessories control TR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	INSTALLED AS STANDARD	The TR (Touch Remote) control includes a touch control on the machine and a remote control (supplied). Furthermore, through a combination of keys, it is possible to remotely command the control with a B0736 wall remote control or a home automation system (Olimpia Splendid or compatible), through the Modbus RS485 ASCII serial protocol (configurable ASCII or RTU for sizes 1400 and 1600). Furthermore, through the user interface, only for sizes 1400 and 1600, it is possible to add a correction on the room temperature read.	B0736  My Home by 
ON BOARD CONTROL	B0736	LCD <b>wall clock thermostat remote</b> control kit. Programmable wall LCD thermostat control for MODBUS connection, RS485. Ability to control up to 30 units. Desired temperature selection, operation mode, fan speed, manual/programmable thermostat. Room sensor inserted in control. Backlit LCD. Presence contact input. The control is equipped with a 230/12VAC double insulation power transformer and a buffer battery. Wall installation with center to center distance compatible with standard recessed mounting box 503.	
	Addressing for Bticino management and SIOS Control	INDRZ Mandatory default addressing of remote kits in case of remote management via Modbus connection with SIOS Control, Bticino MYHome and any other system that communicates in Modbus.	-

## Accessories control AR

	CODE	DESCRIPTION	COMBINATIONS
ON BOARD CONTROL	INSTALLED AS STANDARD	The AR (Analogic Remote) command allows remote control by interfacing with wall controls or home automation control systems via 0-10V analog input or contacts (for fan coil radiators use the contact mode). It has a 230Vac output for control of a solenoid valve and a water probe inlet with the function of a minimum probe (only for use with contacts). For the sizes 1400 and 1600: minimum water probe even in 0-10V use, wide voltage range for managing of the static operation of the fan coil radiators even in 0-10V use.	

	CODE	DESCRIPTION
HYDRAULIC KITS	 B0832	<b>2-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch.</b> Consists of a valve with thermoelectric actuator and holder, the first allows for the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses. This kit is mandatory in version SLR except in the case of using a 3-way valve kit or in the presence of a collector with thermoelectric heads.
	 B0834	<b>3-way valves unit kit with 4-wire thermoelectric actuator and end run micro switch.</b> Consists of a three-way diverter valve with thermoelectric actuator, and a holder. The first allows the control of terminal thermal emissions intercepting water passage; the holder allows the balancing of system load losses; the by-pass keeps water circulating in the system. This kit is an alternative to the 2-way solenoid valve kit (required in version SLR).
	 B0205	<b>Manual 2-way group valves kit.</b> Consisting of a valve and a holder, the first allows the cabinet to be manually excluded from the system, while the holder allows the balancing of system load losses. Also allowed when solenoid valves on the collector are managed by the control kit of terminal Bi2.
	 B0204	<b>Manual 2-way valve isolation kit.</b> Avoids condensation during the cooling operation (already included in the other thermoelectric hydraulic kits).
	 B0200 B0201	<b>Kit pair adapters.</b> Allows you to transform the Bi2 3/4" Eurocone connection into a standard 1/2" (B0200) or 3/4" (B0201) gas thread connection.
	 B0203	<b>Kit 90° Eurokonus bend</b> Facilitates the connection in case of hydraulic connections with walled pipes.
ELECTRICAL KITS	 B0839	<b>Extension cord control panel kit</b> Power and motor sensor electric connection cable for installations where connection positions are rotated (from Left to Right).
AESTHETICAL KITS	 B0853 (200) B0853 (400) B0853 (600) B0853 (800) B0853 (1000) B0874 (1400) <b>NEW</b> B0874 (1600) <b>NEW</b>	<b>Feet kit for Bi2 Air Ultraslim and Bi2 Air Slim.</b> Kit of two aesthetic feet for coverage of any floor pipes. Available in white.
	 B0852 (200) B0852 (400) B0852 (600) B0852 (800) B0852 (1000)	<b>Floor fixing brackets kit for Bi2 Air Ultraslim</b> Kit support brackets and mounting the floor of the terminal (applications front windows or on non-bearing walls). It also has the function of aesthetic kit (color off white).
	 B0875 (1400) <b>NEW</b> B0875 (1600) <b>NEW</b>	<b>Floor fixing bracket kit Bi2 Air Slim.</b> Terminal support and floor fixing bracket kit (front glass applications or on non-bearing walls). To be used in combination with kit B0874. It increases the fan coils thickness of 17 mm (18 mm if with back panel).
	 B0847 (200) B0848 (400) B0849 (600) B0850 (800) B0851 (1000) B0876 (1400) <b>NEW</b> B0877 (1600) <b>NEW</b>	<b>Back panel in painted sheet (for front glass applications).</b>