



Bi2[®]

The refreshing heater

 **Mech-Elec**[®]
NEW USER FRIENDLY SYSTEMS



The system terminal with a split personality

Bi2 is a unique, Olimpia Splendid-patented system terminal that serves a double purpose: it heats and it cools. In winter, it is a real heating unit that provides radiation and convection heat. In the summer, it is a powerful air conditioner that both cools and dehumidifies the air. Heat in the winter: without the dust and noise of a blower.

Cooling in summer: a delightful breath of cool ventilated air with just the right degree of moisture. The result: full comfort all year round. And this is achieved with a single system terminal. Today, with the **Bi2**, the heater has now become a cooler. Simple and ingenious. In other words: Olimpia Splendid.

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Radiated comfort in winter

Bi2 gives off its heat, yielding it to the environment, by radiation, just as radiators or the sun do: gently, effectively, naturally. It does not circulate dusts, dust mites, allergens or bacteria. It does not dry the air. And it works in utmost silence, an ever so important factor for living quarters at night. Then if you wish to quickly heat up a cold apartment, for example when opening up a vacation home in the mountains, **Bi2** can be operated in ventilation mode. In this case, once the temperature setting has been reached, it automatically switches to radiating mode and then keeps the temperature constant. This guarantees great energy savings and absolute silence.

Ventilated comfort in summer

In the summer, the **Bi2** is an air conditioner like few others. It brings the cool air you desire, keeps the temperature steady and dehumidifies the environment. And all this in utmost silence. The ventilation is always kept under control: there are no direct drafts since the cool air is not concentrated in a single place but is evenly distributed throughout the room to achieve great comfort.

Bi2: there's no comparison!

Bi2 wins out over heaters

- Reaches the desired temperature more quickly.
- Can be used at low temperatures and even with condensation boilers.
- Three-way function: heating, cooling, dehumidifying.
- Does not yellow in time: the main structure is made completely of metal.
- Is easy to clean.
- Better regulates the temperature.
- Purifies the air and does not create black marks on the walls.
- Ensures lower energy consumption and greater efficiency.

Bi2 wins out over convection heaters

- Heats by radiation.
- Eliminates dust and noise.
- Is slimmer.
- Better regulates the temperature.

Bi2 wins out over radiating panels

- Three-way function: heating, cooling, dehumidifying.
- Reaches the temperature setting more quickly and does not require much time to heat the rooms.
- Easier, faster installation.

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Design that is attractive all year round



Bi2 also has a revolutionary shape. It is ultra slim - just 13 cm deep vs. the 20-25 cm of traditional convection heaters. It takes up very little space, which makes it suitable for installation in any interior, whether modern or traditional. Without interfering in any way with the interior décor, it can be wall-mounted, ceiling-mounted or set free-standing on the floor; in the latter case, it can be used with or without feet. The inconspicuous, elegant design of Bi2 is truly noteworthy, a timeless, enduring piece in your living or working environment. In addition, the soft forms free of any sharp edges make it particularly suitable for areas that host children and the elderly.

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Easy to install, easy to clean

Whether on the floor, on the wall or on the ceiling (there are even some recessed models but obviously these are ventilation-only units without a radiating plate), these units are always easy to install, like any indoor air conditioning unit: just use the drilling template and adjustable brackets provided. When necessary, dismantling is equally easy.

Cleaning, too, is extremely easy. Take the air filters, for example: a special warning light goes on when they need to be cleaned.



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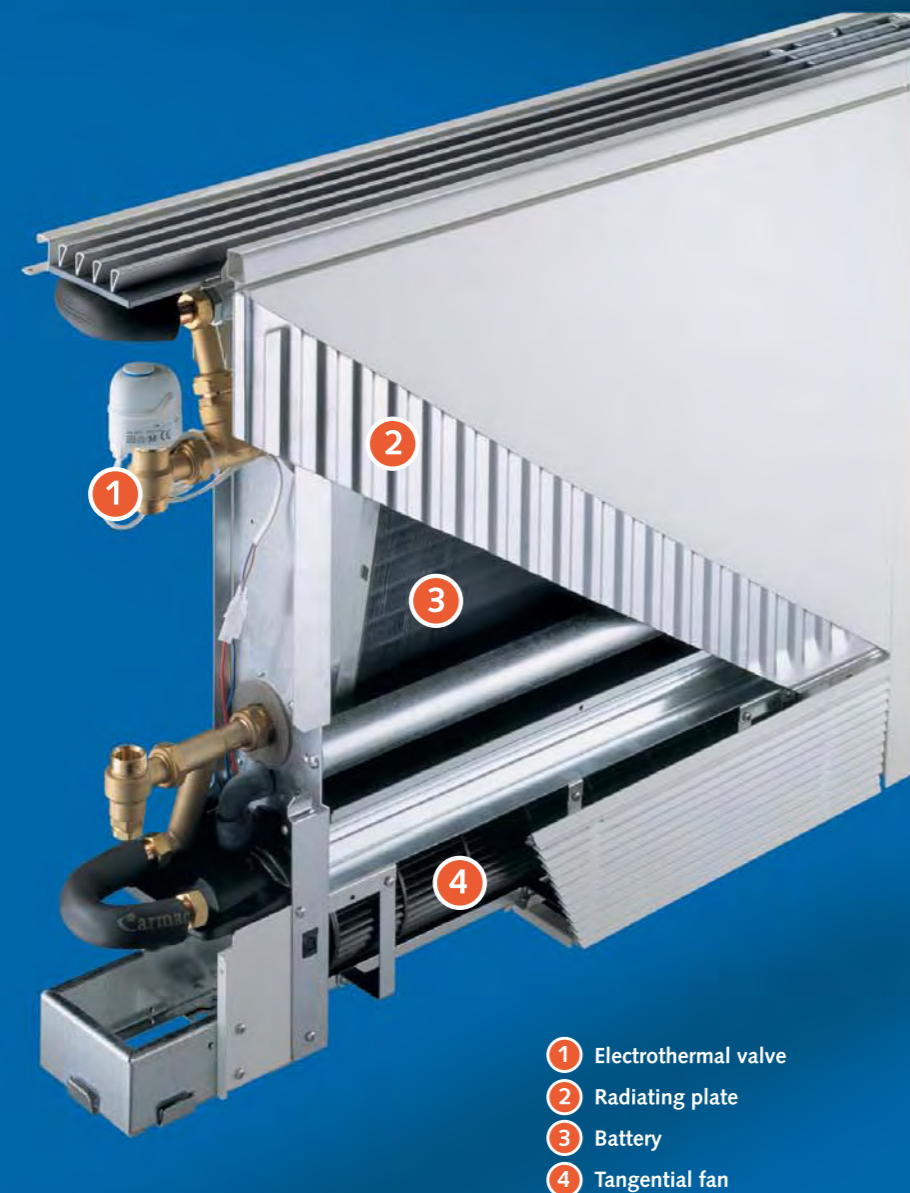
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The secret lies in its heart

One of the marvels of the Bi2 with radiating plate is the special Calostat valve. When heating, this valve allows the hot water to move both into the heat exchange unit and into the radiating plate. Instead, when cooling, this same valve prevents the cold water from passing into the radiating plate, only allowing it to flow to the heat exchange unit.



- 1 Electrothermal valve
- 2 Radiating plate
- 3 Battery
- 4 Tangential fan

Advanced electronic controls

Using the adequate kit of accessories, the Bi2 can be managed with advanced electronic logic. Besides the numerous automatic functions and remote controls, this ensures precise regulation of the temperature as well as flexible use and reduced consumption.

A complete range of models

The Bi2 terminal unit is truly complete. It comes in 3 versions, 5 power ratings and a full 25 models: 10 two-tone models with radiating plate, 10 two-tone models without radiating plate (convection heat models) and 5 recessed units. The units come in White and Silver (metallic silver grey).

A full range of accessories

Machine-side command kits:

- Independent PID electronic control kit
- Electromechanical speed selection kit

Remote control kits:

- Independent PID electronic control kit
- Wall-mounted control kit

Thermostat kits:

- Electromechanical wall thermostat with summer/winter selector
- Electromechanical wall thermostat with summer/winter and speed selectors
- Electronic recessed thermostat with summer/winter and speed selectors

Valve assembly kits:

- 2-way manual valve assembly kit
- 2-way hydraulic assembly kit with thermoelectric head
- 3-way hydraulic assembly kit with thermoelectric head

The 2- and 3-way hydraulic kits guarantee excellent balancing of the system and are managed with the Bi2 control system or similar commands.

Other accessories:

- Fan control kit for remote regulation
- Kit of White/Silver feet
- Plenum delivery system kit for SLI
- Outside rear cover kit

SLR version (with radiator plate)

MODEL		SLR200	SLR400	SLR600	SLR800	SLR1000
Silver		cod. 00607	cod. 00611	cod. 00615	cod. 00619	cod. 00623
White (RAL 9010)		cod. 00606	cod. 00610	cod. 00614	cod. 00618	cod. 00622
(a) Total cooling capacity	W	880	1750	2350	2900	3900
Sensible cooling capacity	W	700	1470	1920	2400	3190
Water flow rate	l/h	151	301	404	499	671
Water pressure drops	kPa	10	10	20	20	26
(b) Heating capacity (water 50°C)	W	1350	2500	3000	4400	5409
Water flow rate (50°C)	l/h	215	390	519	701	890
Water pressure drops (50°C)	kPa	5	5	9	9	11
(c) Heating capacity (water 70°C)	W	2500	4100	6100	7200	10000
Water flow rate (70°C)	l/h	215	353	525	619	860
Water pressure drops (70°C)	kPa	8	12	22	22	28
Max. static heating capacity (70°C)	W	652	785	961	1203	1470
Coil water content	dm ³	0,4	0,8	1,1	1,4	1,8
Radiator plate water content	dm ³	0,9	1,3	1,7	2,1	2,4
Maximum operating pressure	bar	10	10	10	10	10
Water pipe fittings	inches	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4
(d) Air flow rate max-min	m ³ /h	177-69	355-142	534-214	712-287	891-360
Supply voltage	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max. current absorption	A	0,22	0,25	0,30	0,36	0,45
Max. power absorption	W	45	55	66	80	95
(e) Sound power max-min	dB(A)	50-34	52-36	52-37	53-37	54-38
Sound pressure max-min	dB(A)	40-23,5	41-26	41,5-27	43-27	45-28
Total length	mm	697	897	1097	1297	1497
Total height (without feet)	mm	645	645	645	645	645
Total depth	mm	126	126	126	126	126
Net weight	Kg	24	30	36	42	48

SL version (without radiator plate) and SLI version (built-in without radiator plate)

MODEL		SL200	SLI200	SL400	SLI400	SL600	SLI600	SL800	SLI800	SL1000	SLI1000
Built-in			cod. 00624		cod. 00625		cod. 00626		cod. 00627		cod. 00628
Silver		cod. 00605		cod. 00609	cod. 00612	cod. 00613		cod. 00617		cod. 00621	
White (RAL 9010)		cod. 00604		cod. 00608	cod. 00612	cod. 00612		cod. 00616		cod. 00620	
(a) Total cooling capacity	W	880	880	1750	1750	2350	2350	2900	2900	3900	3900
Sensible cooling capacity	W	700	700	1470	1470	1920	1920	2400	2400	3190	3190
Water flow rate	l/h	151	151	301	301	404	404	499	499	671	671
Water pressure drops	kPa	10	10	10	10	20	20	20	20	26	26
(b) Heating capacity	W	1210	1210	2300	2300	2700	2700	3950	3950	4800	4800
Water flow rate	l/h	151	151	301	301	404	404	499	499	671	671
Water pressure drops (50°C)	kPa	5	5	5	5	9	9	9	9	11	11
(c) Heating capacity	W	2350	2350	3900	3900	5700	5700	6600	6600	9300	9300
Water flow rate	l/h	202	202	335	335	490	490	568	568	800	800
Water pressure drops (70°C)	kPa	8	8	12	12	22	22	22	22	28	28
Coil water content	dm ³	0,4	0,4	0,8	0,8	1,1	1,1	1,4	1,4	1,8	1,8
Maximum operating pressure	bar	10	10	10	10	10	10	10	10	10	10
Water pipe fittings	inches	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4
(d) Air flow rate max-min	m ³ /h	177-69	177-69	355-142	355-142	534-214	534-214	712-287	712-287	891-360	891-360
Supply voltage	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max. current absorption	A	0,22	0,22	0,25	0,25	0,30	0,30	0,36	0,36	0,45	0,45
Max. power absorption	W	45	45	55	55	66	66	80	80	95	95
(e) Sound power max-min	dB(A)	50-34	50-34	52-36	52-36	52-37	52-37	53-37	53-37	54-38	54-38
Sound pressure max-min	dB(A)	40-23,5	40-23,5	41-26	41-26	41,5-27	41,5-27	43-27	43-27	45-28	45-28
Total length	mm	697	479	897	679	1097	879	1297	1079	1497	1279
Total height (without feet)	mm	585	576	585	576	585	576	585	576	585	576
Total depth	mm	126	126	126	126	126	126	126	126	126	126
Net weight	Kg	19	18	23	22	27	26	31	30	35	34

Notes: (a) Water temperature at coil inlet 7°C, Water temperature at coil outlet 12°C, Room temperature 27°C db and 19°C wb (b) Water temperature at coil inlet 50°C, water flow rate as for cooling + plate, ambient air temperature at inlet 20°C. (c) Water temperature at coil inlet 70°C, water temperature at coil outlet 60°C, ambient air temperature at inlet 20°C. (d) Air flow measured with clean filters. (e) Sound power measured as per ISO23741/2 Standards. - Sound pressure measured as per UNI EN ISO 7779:2001.

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