MITSUBISHI ELECTRIC
HYDRONICS & IT COOLING SYSTEMS S.p.A.

COMFORT APPLICATION

HYDRONIC TERMINALS

i-LIFE2 SLIM

ELEGANCE AND DESIGN FOR YOUR RESIDENTIAL COMFORT

climaveneta.com

CLIMAVENETA®

A perfect synergy

between elegance, comfort and energy savings

Conceived to make every kind of residential environment more comfortable, the new i-LIFE2 Slim fan coil integrates excellent performance with an irresistible charm.

ELEGANT DESIGN

i-LIFE2 Slim is the new Climaveneta brand fan coil specially designed to perfectly fit the environment where it is installed.

Featuring a harmonious design and an extraordinary depth of only 13 cm, i-LIFE2 Slim complements the real interior design and fits perfectly in modern architectures.

REDUCED ENERGY CONSUMPTION

Thanks to the DC motor with Inverter technology, i-LIFE2 Slim features an electrical absorption rate 50% lower than traditional fan coil units with the same size.

The innovative combination of the radiant effect with the finned coil ensures the heating function with lower water temperature compared to a traditional radiator (45°C instead of 65°C), with a very low energy expense.

The solution

for heating, cooling and dehumidifying

**Breathing clean air is a key element for a healthy lifestyle.
i-LIFE2 Slim is the wellness that you can see and feel.**

SILENT COMFORT

The i-LIFE2 Slim fan coil is a synonym of perfect comfort in the environment, in every season.
The brushless motor quickly reaches the desired comfort level to keep this general wellness over time, without any temperature fluctuation.

Centrifugal fans operate through continuous air flow modulation, generating extremely low sound emissions.

CLEAN AIR FOR A HEALTHY LIFESTYLE

Your wellness is in the air: with i-LIFE2 Slim you can breathe cleaner air.

The fan coil is equipped with an UVC emitter that helps environmental sterilization and ensures a high quality of indoor air treatment.
It is well-known that UVC rays have high antibacterial efficacy.
The use of this component guarantees a cleaner and healthier environment and provides a feeling of well-being and relaxation.

Technological choices

AIR DEFLECTORS

The new automatic opening and closing system smartly manages the airflow from the deflectors, ensuring quick comfort in the environment.

CABINET

The elegant layout of the i-LIFE2 Slim has been specifically designed to perfectly fit into its environment. The linear and modern design of its casing with minimal lines and gentle curves is obtained by using high quality plastic materials combined with traditional galvanized sheet steel and epoxy powder coating.

AIR FILTER AND FRONT AIR INTAKE

All the units are provided with a honeycomb polypropylene regenerable filter (Class G1). There is easy access to the filter through the removable front grid in order to make cleaning easier. For environments with high air quality requirements, an UVC emitter is available as an accessory. The UV rays guarantee antibacterial efficacy, ensuring perfect sterilization and providing the feeling of well-being for the occupants.

Smart and functional technological choices conceived to ensure perfect comfort in every moment. Cooling, heating, ventilation and air purification combined with reduced energy consumption and sound emissions: this is now possible thanks to high quality components designed for the well-being of the tenants.

DESIRED TEMPERATURE REACHED QUICKLY

Thanks to the advanced functions of the panel with PID logic, the desired temperature is reached quickly. With a simple click, in a few minutes you can achieve the desired level of comfort, without wasting precious energy.

HEAT EXCHANGER

The heat exchanger has an extensive front surface that ensures high airflows to be achieved with low pressure loss. All units are supplied with hydraulic connections on the left, and upon request on the right.

VENTILATION SECTION

The fan is tangential with asymmetric blades and a DC electronic inverter motor. Thanks to the inverter technology, the fan speed is continuously modulated for better comfort and real energy savings.

Product overview

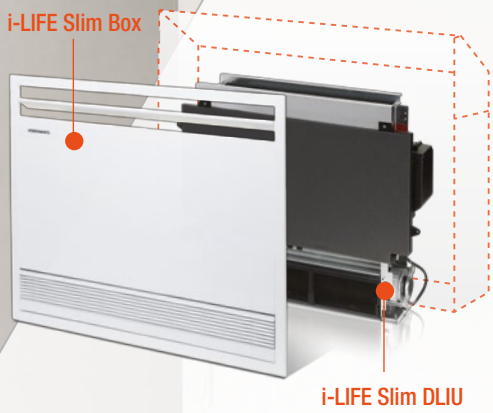
Thanks to 4 versions with cabinet and built-in mounting, for horizontal or vertical installation, the ideal solution is guaranteed for any project.

i-LIFE2 Slim DLRV

With cabinet
and radiating effect
for vertical wall
installation

i-LIFE2 Slim DLMO

With cabinet, for horizontal ceiling installation



i-LIFE2 Slim DLMO

Box module for wall installation

i-LIFE2 Slim DLIU

Built-in version, for vertical/horizontal installation

i-LIFE2 Slim DLMV

With cabinet and feet, for vertical floor installation

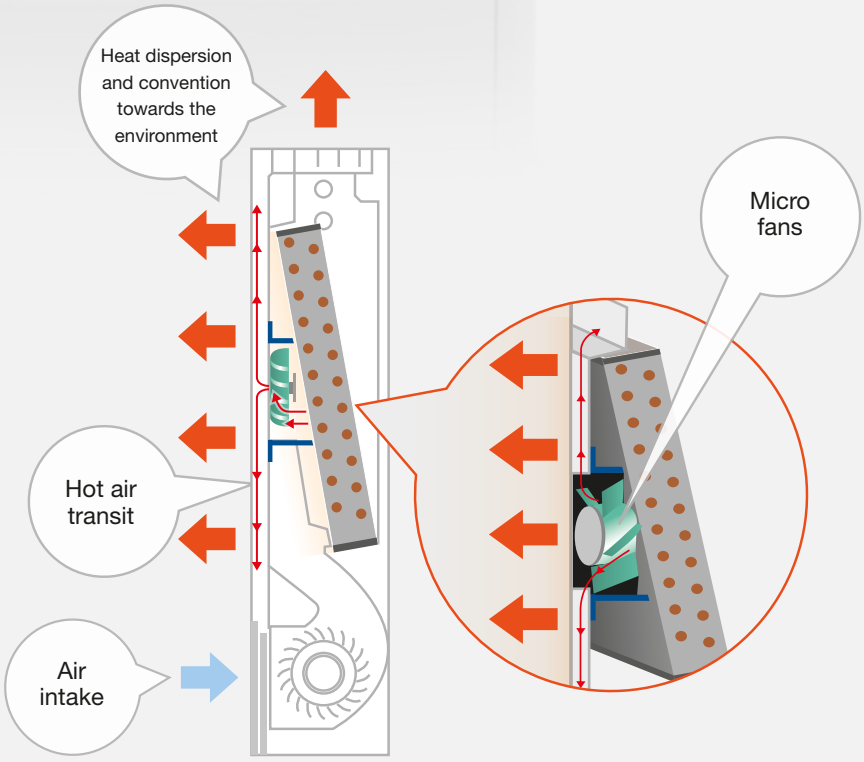
i-LIFE2 SLIM DLVR

With cabinet and radiating effect for vertical installation

The key feature of the DLRV version is the micro fans positioned between the heat exchanger and the front panel.

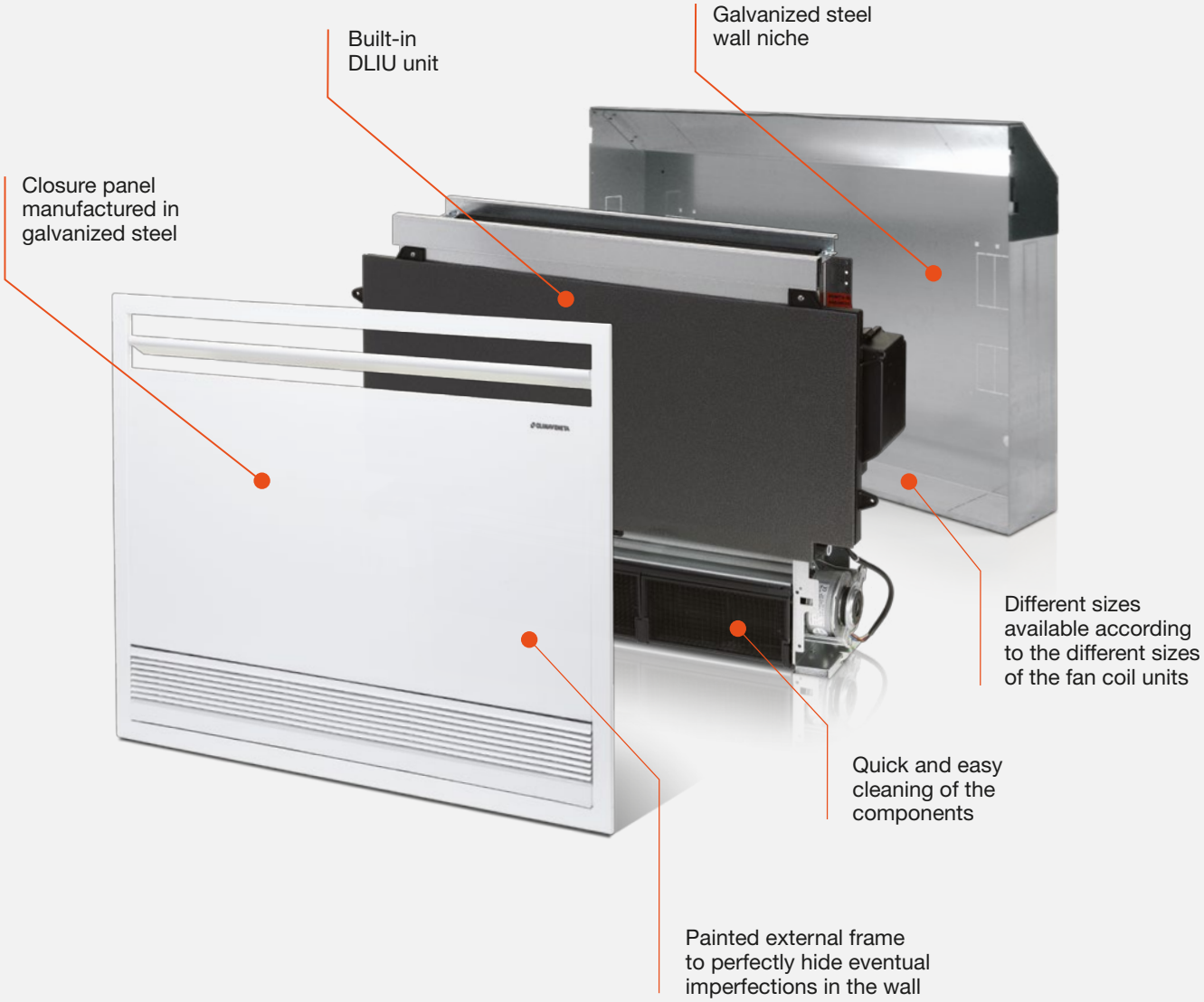
These micro fans are connected in parallel to the water valves and they start functioning when the water temperature rises above 35°C.

Through a simple function selection on the control panel, the tangential fan stops and the micro fans start working releasing hot air through the frontal panel, thus ensuring natural radiant heat dispersion and convection with the lowest sound emissions.



i-LIFE2 SLIM Box

Box module for wall installation



i-LIFE2 Slim Box has been specifically designed to fit the rational architecture of modern buildings.

From the first stage of the building's construction, the unit can be positioned into the wall niches and render the execution of the system more rational, efficient and aesthetically harmonious.

The fan coil, accurately embedded inside the wall module, will be practically invisible and hidden behind the wall.

Simplified operations on the construction sites

During the first stages of installation, the casing for built-in installation is placed in the wall niche and the electrical and water connections are prepared.

The positioning of the fan coil is easy and can be carried out when site operations are concluded.

Thanks to its reduced thickness, i-LIFE2 Slim can blend easily into all types of walls and false ceilings, including thin ones.

Controllers

The wide range of available wall-mounted and on-board controllers, allows for a user-friendly and complete regulation of all the functions. The advanced management system with PID logic modulates the fan speed maintaining a perfect temperature and humidity level, reducing the sound emissions and ensuring high efficiency.

iKS2

On-board control for units with cabinet complete with keypad with 8 touch keys, LCD display with white light symbols.

- Modulating fan speed with PID logic,
- Temperature regulation,
- Winter/Summer mode,
- Automatic mode for speed regulation,
- Night mode for a silent operation
- Minimum water temperature probe and solenoid valve management.

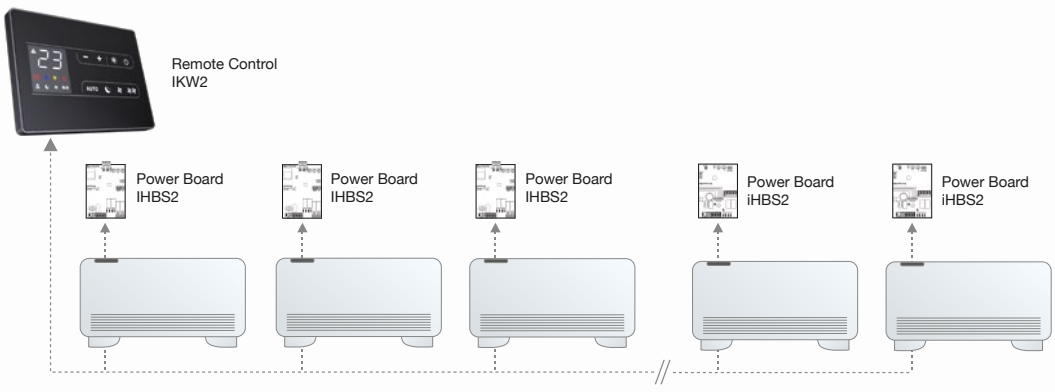
ATS2

On-board controller for units with cabinet. Interface with 4 keys for the temperature selection.

- Winter/Summer mode,
- 4 speed regulation,
- Display for the visualization of the room temperature,
- Minimum water temperature probe and solenoid valve management.

All i-LIFE2 Slim units can be part of a network of units managed by the Idrorelax centalized system.
In this case a IRS bridge will be included in each fan coil.

On board or remote controls in multiple connection configuration



It's possible to connect up to 31 units with 1 remote control IKSW2

iKSW2+iHBS2

Remote controller for built-in and with cabinet units complete with keypad with 8 touch keys, LCD display with white light symbols.

- Modulating fan speed with PID logic,
- Temperature regulation,
- Winter/Summer mode,
- Automatic mode for speed regulation,
- Night mode for a silent operation,
- Minimum water temperature probe and solenoid valve management.

A maximum of 31 fan coils can be connected to the iKSW2 controller for open space rooms.

iHBS2 control board

Simple control board for built-in and with cabinet units to be coupled with remote controller iKSW2. iHBS2 features an ON/OFF touch button and a LED for the visualization of the device's operation.

All the parameters are set from the iKSW2.

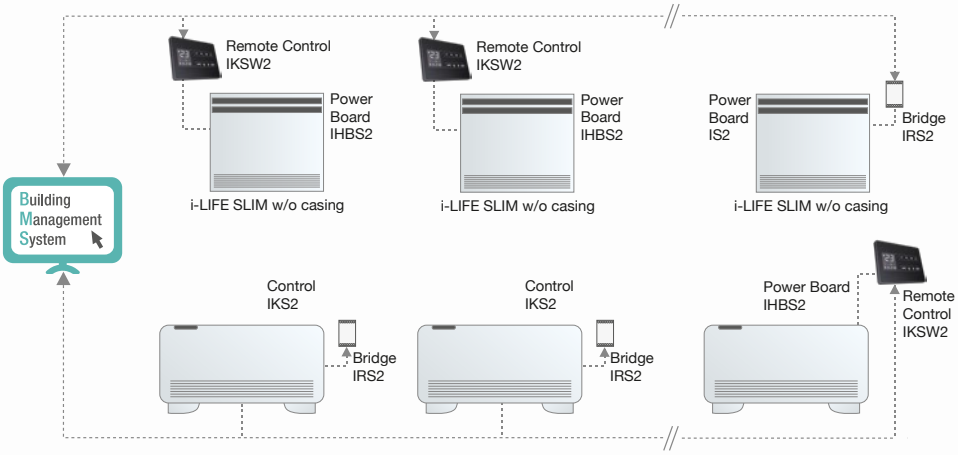
ATW2+HBS2

Room thermostat for built-in and with cabinet units.

- Manual and automatic speed regulation,
- Room probe and minimum temperature probe
- Control of solenoid valves,
- Multifunctional digital contact
- Dip switch configuration.

The ATW2 control must be coupled with the HBS2 power board.
The HBS2 0-10V power board is available for the 0-10V signal.

On board and remote controllers, multiple connections and idrorelax.



i-LIFE2 SLIM 080 - 370

FAN COIL UNIT WITH DC INVERTER MOTOR AND TANGENTIAL FAN

i-LIFE2 Slim units are managed by a DC motor with Inverter technology that continuously modulates the fan speed. The values at high, medium and low speed are Eurovent certified and are presented below.

VERSIONS

DLIU	Built-in version for universal installation
DLMV	Version with cabinet for vertical installation
DLMO	Version with cabinet for horizontal installation
DLRV	Radiant Version with cabinet for vertical installation

i-LIFE2 SLIM			080	170	270	320	370
ELECTRICAL DATA							
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
2 PIPES SYSTEM CONFIGURATION							
ENERGY EFFICIENCY							
COOLING (EN14511 VALUE)							
FCEER	(1)(6)	kW/kW	150	197	320	294	275
FCEER Class			B	A	A	A	A
HEATING ONLY (EN14511 VALUE)							
FCCOP	(2)(6)	kW/kW	183	262	387	401	346
FCCOP Class			B	B	A	A	A
PERFORMANCE							
MIN SPEED							
Fan Power Input	(1)	W	0,70	1,62	1,82	2,47	4,91
Air flow rate	(1)	m³/h	51	122	189	258	367
Total capacity in cooling mode	(1)	kW	0,40	0,81	1,32	1,62	2,00
Total Net Cooling Capacity	(1)(6)(7)	kW	0,40	0,81	1,32	1,62	2,00
Sensible capacity in cooling mode	(1)	kW	0,30	0,67	1,03	1,38	1,71
Net sensible cooling capacity	(1)(6)(7)	kW	0,30	0,67	1,03	1,38	1,70
Net latent power in cooling	(1)(6)(7)	kW	0,10	0,14	0,29	0,24	0,30
Max water flow	(1)	l/s	0,02	0,04	0,06	0,08	0,10
Pressure Drop in cooling mode	(1)	kPa	2	1	6	5	6
Total capacity (heating mode)	(2)	kW	0,50	1,06	1,54	2,22	2,48
Total Net Heating Capacity	(2)(6)	kW	0,50	1,06	1,54	2,22	2,48
Water flow in heating mode	(2)	l/s	0,02	0,05	0,07	0,11	0,12
Pressure drop in heating mode	(2)	kPa	3	2	8	9	10
Sound Pressure	(3)	dB(A)	24	26	27	27	31
Sound Power	(4)(7)	dB(A)	33	35	36	36	40

i-LIFE2 SLIM			080	170	270	320	370
MED SPEED							
Fan Power Input	(1)	W	4,46	10,1	9,86	11,3	12,3
Air flow rate	(1)	m³/h	93	221	334	430	499
Total capacity in cooling mode	(1)	kW	0,69	1,39	2,18	2,52	2,82
Total Net Cooling Capacity	(1)(6)(7)	kW	0,69	1,38	2,17	2,51	2,81
Sensible capacity in cooling mode	(1)	kW	0,54	1,17	1,72	2,24	2,40
Net sensible cooling capacity	(1)(6)(7)	kW	0,54	1,16	1,71	2,23	2,39
Net latent power in cooling	(1)(6)(7)	kW	0,15	0,22	0,46	0,28	0,42
Max water flow	(1)	l/s	0,03	0,07	0,10	0,12	0,14
Pressure Drop in cooling mode	(1)	kPa	5	3	15	11	13
Total capacity (heating mode)	(2)	kW	0,78	1,65	2,40	3,07	3,41
Total Net Heating Capacity	(2)(6)	kW	0,78	1,66	2,41	3,08	3,43
Water flow in heating mode	(2)	l/s	0,04	0,08	0,12	0,15	0,16
Pressure drop in heating mode	(2)	kPa	6	5	19	16	20
Sound Pressure	(3)	dB(A)	35	36	37	38	39
Sound Power	(4)(7)	dB(A)	44	45	46	47	48
MAX SPEED							
Fan Power Input	(1)	W	10,7	19,0	20,0	29,0	33,0
Air flow rate	(1)	m³/h	125	277	425	593	697
Total capacity in cooling mode	(1)	kW	0,76	1,75	2,75	3,22	3,76
Total Net Cooling Capacity	(1)(6)(7)	kW	0,75	1,73	2,73	3,19	3,73
Sensible capacity in cooling mode	(1)	kW	0,66	1,53	2,21	3,02	3,30
Net sensible cooling capacity	(1)(6)(7)	kW	0,65	1,51	2,19	2,99	3,27
Net latent power in cooling	(1)(6)(7)	kW	0,10	0,22	0,54	0,20	0,46
Max water flow	(1)	l/s	0,04	0,08	0,13	0,15	0,18
Pressure Drop in cooling mode	(1)	kPa	6	5	24	17	24
Total capacity (heating mode)	(2)	kW	0,88	2,11	3,27	3,88	4,33
Total Net Heating Capacity	(2)(6)	kW	0,89	2,13	3,29	3,91	4,36
Water flow in heating mode	(2)	l/s	0,04	0,10	0,16	0,19	0,21
Pressure drop in heating mode	(2)	kPa	8	8	33	25	32
Sound Pressure	(3)	dB(A)	41	42	44	46	47
Sound Power	(4)(7)	dB(A)	50	51	53	55	56

i-LIFE2 SLIM / DLMO - DLMV			080	170	270	320	370
SIZE AND WEIGHT							
A	(5)	mm	737	937	1137	1337	1537
B	(5)	mm	131	131	131	131	131
H	(5)	mm	579	579	579	579	579
Operating weight	(5)	kg	17	20	23	26	29

i-LIFE2 SLIM / DLMO - DLIU			080	170	270	320	370
SIZE AND WEIGHT							
A	(5)	mm	525	725	925	1125	1325
B	(5)	mm	126	126	126	126	126
H	(5)	mm	576	576	576	576	576
Operating weight	(5)	kg	9	12	15	18	21

i-LIFE2 SLIM / DLMO - DLRV			080	170	270	320	370
SIZE AND WEIGHT							
A	(5)	mm	737	937	1137	1337	1537
B	(5)	mm	131	131	131	131	131
H	(5)	mm	579	579	579	579	579
Operating weight	(5)	kg	17	20	23	26	29

Notes:
1 Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.
2 Room temperature 20 °C d.b.; Hot water (in/out) 45/40 °C
3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non -binding value obtained fron sound power level.
4 Sound power on the basis of measurements made in compliance with ISO 3741 and Eurovent 8/2.
5 Unit in standard configuration/execution, without optional accessories.
6 Values in compliance with EN14511-3:2013.
7 Values in compliance with [REGULATION (UE) N.2016/2281]
Certified data in EUROVENT

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CLIMAVENETA®

for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

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