

i-LIFE2/a-LIFE2

i-LIFE2 New professional fan coil with high efficiency EC motor. Continuous air flow regulation and speed modulation. Energy consumption reduced by more than 50%.

a-LIFE2 New professional fan coil with centrifugal fan and 6 speed via auto-transformer.



Perfect comfort



Real savings



Complete integration

i-LIFE2/a-LIFE2

A new way to live comfort

LIFE2 fan coil has been specifically developed to be adapted to every ambient thanks to its modern and minimal design, which is the result of Climaveneta brand experience and know-how in this range of products.

Perfect comfort

i-LIFE2 means perfect comfort and lowest operating cost. The brushless motor ensures the perfect adaptation to the thermal load in the ambient and reduces the temperature fluctuations comparing to set point parameters. Centrifugal fans operate through continuous air flow modulation, with no speed steps. The conditions of the air-conditioned rooms are rapidly reached.



Real savings

i-LIFE2 features an electrical absorption 50% lower than traditional fan coils of the same size. The advantages of this increased efficiency are enhanced over the whole operating year and make available the saved energy for other components of the system or to improve the building energy efficiency ratio.



Complete integration

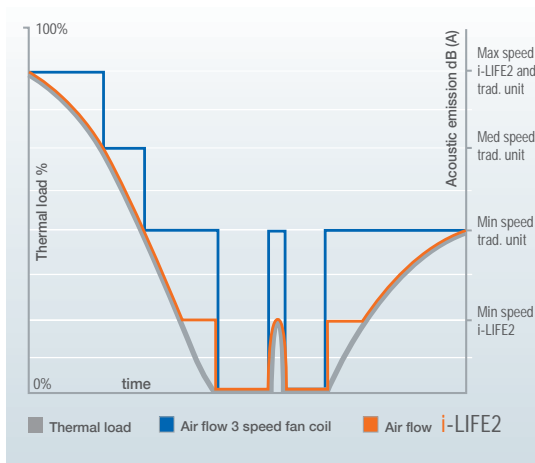
i-LIFE2 fan coil offers a wide versatility and easy installation. User-friendly interface of the controller with LCD screen allows the full control of all operating conditions.

i-LIFE2 units can be easily integrated in Master - Slave networks and Building management system (e.g. Idrorelax by Climaveneta). The fan coil interface guarantees a quick and simple installation thanks to only two wires connection.



Uncompromising Comfort, efficiency and integration

Today comfort has a new name: i-LIFE2 / a-LIFE2. The new generation fan-coil featured by high efficiency, low sound emission and integration capability.



Silent operation

Thanks to the continuous fan speed modulation, the sound emission produced in order to keep the temperature set-point is extremely low.

The adaptation to new set values or different loads is carried out varying gradually the fan speed. The acoustic emissions mingle therefore with the background noise and are almost imperceptible to human ears.

Complete versatility

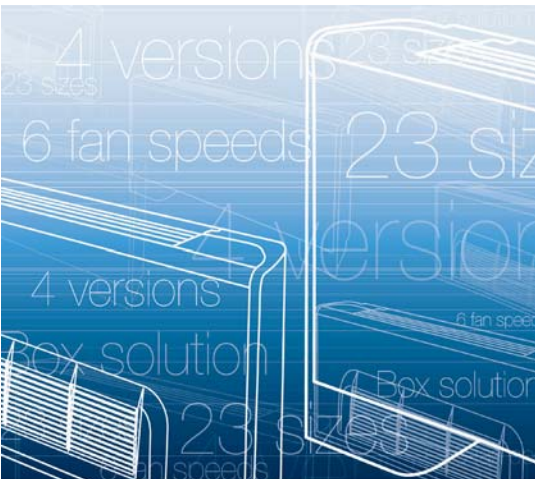
i-LIFE2/a-LIFE2 can easily adapt to any installation requirements: wall, ceiling, with bottom air inlet, with frontal air inlet, with cabinet or built-in version. Versatility is enhanced also by complete range of controls and accessories, provided like separate kit or also factory assembled.

Moreover, complete versatility of LIFE2 fan coil simplifies project steps, from installation to maintenance. The new range of controls are particularly user-friendly. Optimal selection unit is guaranteed by ELCA fan coil software, in line with other range of products offered by Climaveneta.

Design

LIFE2 is an advanced solution for the requirements of modern residential and commercial architecture, even more sensible to design and aesthetics.

Featured with a simple and refined design, it was created to perfectly fit any ambient, thanks to the use of high quality components on galvanized and pre-coated steel.



i-LIFE 2 / a-LIFE 2



A new way to live comfort

The excellent performance in terms of energy efficiency, silence and quality of comfort featured by i-LIFE2 / a-LIFE2, are the result of cutting-edge design and technological choices, based on Climaveneta's experience and know-how.

Cabinet

i-LIFE2 / a-LIFE2 has been designed taking greatest care of design and aesthetics.

The linear and minimal lines ensure a simple and modern shape, that results from the use of high quality plastics combined with more traditional galvanized and pre-coated steel sheet for the cabinet.

Fan

i-LIFE2 is powered by modulating speed centrifugal fan. This new concept of fan-coil operates with continuous air flow regulation assuring a deep comfort and real energy savings.

a-LIFE2 is provided with centrifugal fan, double intake, powered by auto-transformer with 6 speeds of which 3 are factory-set. In addition to the standard speed, it is possible to select various speed variables and to arrange the in-site cabling.

Air filter and front air intake

All fan coils are provided with air filter made of metal frame and hosting the filtering material that features filter class G2 and flame resistance classification M1. The removal of the filter always requires a tool as safety measure that is made easier by the side guides.

DFMV and DFMO versions are equipped with intake grille made of plastics with frame-integrated filter, easily removable by the 1/4 turn screws.

Heat exchanger

Coil with aluminium fins and copper pipes. The water fittings are provided with anti-torsion lock with air vent and water drainage.

All units are delivered with left-hand water connections, easily convertible into right-hand by simply turning the coil.





Complete versatility

Thanks to 8 versions - with cabinet and built-in, with frontal or bottom air-inlet - 10 sizes, the ideal solution in every project is guaranteed.

LIFE2 DLIV



Built - in version with low air intake for vertical installation

LIFE2 DLMV



With cabinet version, low air intake, for vertical installation

LIFE2 DLIO



Built-in version low air intake for horizontal installation

LIFE2 DLMO



With cabinet version, low air intake for horizontal installation

LIFE2 DFIV



Built-in version front air intake for vertical installation

LIFE2 DFMV



With cabinet version, front air intake for vertical installation

LIFE2 DFIO



Built in version, front air intake for horizontal installation

LIFE2 DFMO



With cabinet version front air intake for horizontal installation

LIFE2 Box



A solution in order to plan since the earliest construction stages the positioning of i-LIFE2 and a-LIFE2 into wall niches, in order to make the installation more rational, efficient and harmonious.

Simplified on site operations

In the earliest stages of construction the formwork is placed in the wall niche and the connections are prepared. The positioning of the fan coil is easy and can be carried out when site operations are concluded, thus avoiding to expose the unit to the risks of on-site operations.

Complete solution

Each LIFE2 BOX fan coil is provided with delivery air plenum and sized grilles and with cover panel, either pre-painted metal sheet with same colour of fan coil.



Controllers

The wide range of available wall-mounted and built-in controllers, allows a user-friendly and complete regulation of all the functions, and an easy integration in home automation, centralization, building management systems.

i-LIFE2 Controllers



iK universal

Electronic control with LCD display, room thermostat, manual and automatic regulation of fan, manual- and automatic mode change-over, room and minimum temperature probes, regulation of electric heater, valves (on/off or modulating), 0-10 V output for the regulation of the energy-saving brushless fan motor, serial connection for mini-network and integration into BMS or Idrorelax systems.



EK plug-in / EKW wall mounted

Room thermostat, manual and automatic fan regulation, manual- and automatic mode, change-over, room and minimum temperature probes, regulation of electric heater, valves (on/off or modulating), serial connection for mini-network and integration into BMS or Idrorelax systems.

a-LIFE2 Controllers



AT plug-in / ATW wall mounted

Room thermostat, manual- and automatic regulation of fan, manual and automatic mode change-over, room- and minimum temperature probes and command of on/off valves. Multifunction digital contact. Dip switch configuration.



PS plug-in / PSW wall mounted

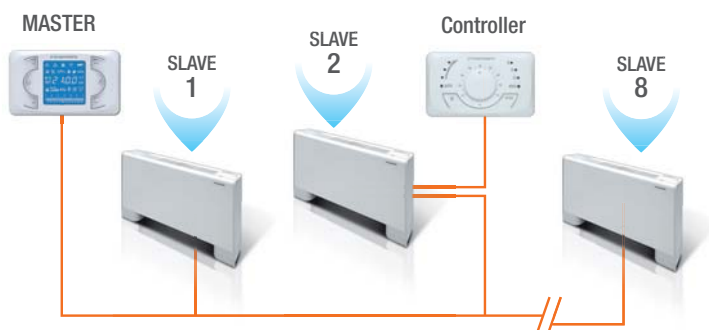
Fan speed slider, mode slider, minimum temperature probe and regulation of on/off valves.



MT plug-in / MTW wall mounted

Room thermostat, fan speed slider, mode slider, room- and minimum temperature probes and regulation of on/off valves.

Master / Slave integration



EK/EKW and iK controllers can manage up to 8 fan coils, thanks to the Master/Slave integration and through the 2-wire connection.

The controllers can be set as:

MASTER - GLOBAL user interface: the controller acts as the Master and manages operation of all the units. All the fan coils connected to the network will operate in the same mode

SLAVE - PRIVATE user interface: if one fan coil needs to operate in different conditions from the MASTER, the respective controller can work autonomously through a different configuration of the dip switch.

General technical data

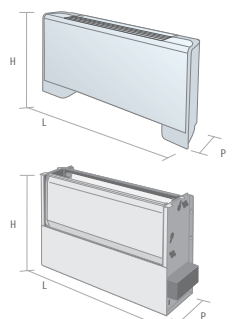
Model	i-LIFE2					a-LIFE2									
	0202	0402	0602	0802	1002	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002
ELECTRICAL DATA															
Power supply	230/1/50														
Max absorbed power	48	54	65	74	73	55	55	85	85	75	75	145	145	175	175
2 PIPES SYSTEM CONFIGURATION															
MAX SPEED															
Air flow	360	590	815	980	1310	300	360	520	590	660	815	890	980	1140	1310
Total capacity in cooling mode (1)	2,00	3,40	4,40	5,70	7,50	1,50	2,00	2,85	3,40	3,80	4,40	5,15	5,70	6,15	7,50
Sensible capacity in cooling mode (1)	1,59	2,61	3,52	4,38	5,81	1,24	1,59	2,22	2,61	2,95	3,52	3,99	4,38	4,66	5,81
Max water flow (1)	0,344	0,585	0,757	0,981	1,291	0,258	0,344	0,491	0,585	0,654	0,757	0,887	0,981	1,059	1,291
Max pressure drop (1)	12,7	36,1	17,2	26,9	46,8	9,0	12,7	30,8	36,1	12,6	17,2	24,2	26,9	32,9	46,8
Total capacity in heating mode (2)	2,82	4,40	6,06	7,74	10,1	2,17	2,82	3,86	4,40	5,17	6,06	6,94	7,74	8,09	10,1
Water flow in heating (2)	0,345	0,584	0,758	0,979	1,288	0,258	0,345	0,489	0,584	0,654	0,758	0,878	0,979	1,060	1,288
Pressure drop in heating (2)	10,9	34,5	14,6	23,3	40,9	7,6	10,9	26,0	34,5	10,7	14,6	20,3	23,3	29,1	40,9
Noise Pressure (3)	48	51	53	54	56	39	45	42	47	45	50	47	50	48	55
Noise Power (4)	57	60	62	63	65	48	54	51	56	54	59	56	59	57	64
MED SPEED															
Air flow	270	380	550	760	920	210	290	410	500	560	670	780	910	1010	1180
Total capacity in cooling mode (1)	1,49	2,31	3,02	4,50	5,40	1,16	1,74	2,33	2,85	3,08	3,75	4,50	5,06	5,41	6,62
Sensible capacity in cooling mode (1)	1,18	1,75	2,39	3,44	4,14	0,90	1,31	1,77	2,22	2,43	2,95	3,49	3,99	4,16	5,16
Max water flow (1)	0,257	0,398	0,520	0,775	0,930	0,200	0,300	0,401	0,491	0,530	0,646	0,775	0,871	0,931	1,140
Max pressure drop (1)	7,0	20,7	8,0	16,8	24,3	5,4	9,6	20,5	28,0	8,2	12,4	18,5	21,2	25,5	36,5
Total capacity in heating mode (2)	2,08	3,07	4,15	6,12	7,13	1,62	2,32	3,09	3,84	4,18	5,14	6,15	6,92	7,16	8,89
Water flow in heating (2)	0,257	0,398	0,519	0,775	0,923	0,200	0,300	0,400	0,487	0,529	0,650	0,779	0,875	0,927	1,138
Pressure drop in heating (2)	6,2	17,3	7,1	15,0	22,1	4,7	8,3	17,7	24,9	7,2	10,9	16,2	18,8	22,8	32,5
Noise Pressure (3)	39	42	44	45	47	31	39	37	42	39	45	44	47	45	51
Noise Power (4)	48	51	53	54	56	40	48	46	51	48	54	53	56	54	60
MIN SPEED															
Air flow	180	238	286	328	542	180	270	350	380	500	550	640	760	790	920
Total capacity in cooling mode (1)	1,02	1,48	1,94	2,42	3,27	1,00	1,49	2,07	2,31	2,85	3,02	4,06	4,50	4,71	5,40
Sensible capacity in cooling mode (1)	0,81	1,15	1,49	1,88	2,46	0,78	1,18	1,59	1,75	2,22	2,39	3,00	3,44	3,59	4,14
Max water flow (1)	0,176	0,255	0,334	0,417	0,563	0,172	0,257	0,356	0,398	0,491	0,520	0,699	0,775	0,811	0,930
Max pressure drop (1)	3,3	10,9	3,3	4,8	9,0	4,0	7,0	16,2	20,7	7,0	8,0	15,0	16,8	19,4	24,3
Total capacity in heating mode (2)	1,43	1,97	2,67	3,29	4,32	1,40	2,08	2,80	3,07	3,82	4,15	5,42	6,12	6,29	7,13
Water flow in heating (2)	0,176	0,255	0,334	0,417	0,560	0,173	0,257	0,355	0,398	0,489	0,519	0,701	0,775	0,814	0,923
Pressure drop in heating (2)	3,0	7,8	3,1	4,7	8,7	3,5	6,2	14,1	17,3	6,2	7,1	13,3	15,0	17,9	22,1
Noise Pressure (3)	31	33	33	34	37	28	37	36	37	37	39	41	44	41	45
Noise Power (4)	40	42	42	43	46	37	46	45	46	46	48	50	53	50	54
SIZE AND WEIGHT															
Built-in version DLIO															
L	545	745	945	1145	1345	545	545	745	745	945	945	1145	1145	1345	1345
P	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
H	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Built-in version DLIV															
L	450	650	850	1050	1250	450	450	650	650	850	850	1050	1050	1250	1250
P	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
H	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Version with cabinet DLMV / DLMO															
L	922	1112	1302	1492	1682	922	922	1112	1112	1302	1302	1492	1492	1682	1682
P	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233
H	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499

Data referred to:

- Room temperature 27 °C d.b./19 °C w.b.;
Chilled water (in/out) 7/12 °C
- Room temperature 20 °C d.b.;
Hot water (in/out) 50/°C (with identical flow note1)
- Sound pressure in semianechoic room at 1 (m.)
from fan front and 1 (m.) from the ground
- Sound power on the basis of measurements made in compliance
with Eurovent 8/2.
- Unit in standard configuration/execution, without optional accessories.

Main accessories:

- Plug-in and wall-mounted controls in several versions
- Valve units for main and additional coil
- Hot water coil kit
- 90° and straight plenum kits for air inlet and outlet
- Hose kit
- Horizontal and Vertical Fan Coil auxiliary drain pan
- Decorative, structural feet
- Rear panel for vertical housing
- Air intake grille for DLMV and DFMV versions
- Manual damper for external air intake
- Motor drive damper for external air intake





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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