

HYDRONIC TERMINALS





This document can be subjected to variations.
Descriptions, performance data, images and diagrams are indicative only and refer to the standard installation in the EU.
For further information contact Climaveneta Communications/Marketing Department or visit www.climaveneta.com



HYDRONIC TERMINALS

a-LIFE2 0102÷1004 pg. 4

Fan coil unit for professional applications, with cabinet or built-in version. 1,50-7,50 kW

i-LIFE2 0202÷1004 pg. 8

Professional fan coil unit with cabinet or built-in version, powered by EC Brushless centrifugal fan for continuous airflow modulation. 2,00-7,50 kW

a-LIFE2 HP 0302÷1204 pg. 12

Fan coil unit for professional application. Built-in version. 2,88-8,60 kW

i-LIFE2 HP 0202÷1204 pg. 16

High Head professional fan coil unit with Brushless EC motor for continuous regulation of airflow and fan speed.

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Residential fan coil units with cabinet or concealed version, with inverter motor e tangential fan. 0,84-3,86 kW

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High - Wall type terminal. 2,15-4,63 kW

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Cassette type terminal. 3,20-11,5 kW

i-CHD 0706÷2209 pg. 28

Cassette type terminal with EC motor and continuous regulation of airflow and cooling/heating power. 4,56-10,6 kW

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High efficiency heat recovery units. 3,35-27,9 kW

a-HWD2 102÷902 pg. 32

Ducted type terminal. 6,88-24,0 kW

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Ducted high head hydronic terminal with EC Brushless motor for continuous regulation of fan speed and air flow.

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Controls for hydronic terminals

a-LIFE2 / i-LIFE2

a-LIFE2 HP / i-LIFE2 HP

a-CHD / i-CHD

a-HWD2 / i-HWD2

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Controls for i-LIFE Slim.

Idrorelax pg. 43

Management and control system.

a-LIFE2 0102÷1004

Fan coil unit for professional applications, with cabinet or built-in version. 1,50-7,50 kW



The new a-LIFE2 fan coil unit has been specifically developed to be adapted to every ambient thanks to its modern and minimal design resulting from Climaveneta's experience on this range of products.

Thanks to the different versions, with cabinet or built in, low air intake or front air intake, vertical or horizontal installation, the fan coil unit easily fit any kind of residential or commercial building.

Version

DLMV	version with cabinet, low air intake, vertical installation
DLMO	version with cabinet, low air intake, horizontal installation
DFMV	version with cabinet, front air intake, vertical installation
DFMO	version with cabinet, front air intake, horizontal installation
DLIV	built-in version, low air intake, vertical installation.
DLIO	built-in version, low air intake, horizontal installation
DFIV	built-in version, front air intake, vertical installation
DFIO	built-in version, front air intake, horizontal installation

Features

- Centrifugal fan with double air inlet, to ensure the best performances with the best acoustic emissions.
- Coils with aluminium fins and copper pipes.
- Configurations for 2 and 4-pipe Systems.
- Left-hand water connections, easy convertible into right-hand, by simply turning the coil
- 6-speed autotransformer;
- Air filter on all models.
- Automatically closing flap to cover and protect electric controls from dripping water (in conformity with directive 60335-2-40).
- Auxiliary drain pan with thermal insulation for all horizontal versions, made of galvanized steel.
- Plastic drain pan for all vertical versions.

Accessories

- Hot water coil kit
- Kit Bus Adapter for BMS
- Kit RS485 - interface for Building Management System
- Kit Gateway interface for MyHome Bticino System
- Interface SPB Kit
- Kit control board to manage 0-10V or 3 points modulating valve unit
- Main and additional coil valve unit ON/OFF, PWM, 0-10 V, 3 points 2-way or 3-way
- Kit LIFE2 BOX
- Plenum kit with round, straight or 90° air ducts.
- Air intake grille kit with version cover
- Horizontal and vertical fan coil unit auxiliary tray
- Electric heaters

Controls

PS plug-in/PSW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Remote water temperature probe.

MT plug-in/MTW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Room temperature probe. Remote water temperature probe.

AT plug-in/ATW wall mounted

Mode button (OFF/summer/winter/AUTO), fan speed button (Max/Med/Min/AUTO). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2 and 4-pipe installation). Control of traditional or PWM modulating valve units. Room temperature probe and water temperature probe.

Digital input configurable as: window contact, economy, heating or cooling remote changeover, periodic ventilation. Configuration dip switch. TTL serial port with Modbus protocol for installation in BMS.

EK plug-in control /EKW wall mounted control

User interface for selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control of main and additional coil valve unit (summer/winter - 2 and 4-pipe installation). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch. Modbus protocol for installation in BMS (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE fan coil units. Easy control installation thanks to 2 wires connection.

iK control with LCD screen

Interface with LCD screen with user-friendly icons. Control kit for universal installation: wall-mounted as well as plug-in. Selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control iK could function manually or with weekly timer regulation configurable by the customer. Control of main coil valve unit (summer/winter - 2-pipe) and additional coil (winter - 4-pipe). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points (supply 230 VAC or 24V). Parameters configurable directly by user. Modbus protocol for installation in Building Management System (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection through HB power board

Remote control

Set-point regulation. Selection of functioning mode (cool, heat, dehumidify, fan), fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics.

Technical data

a-LIFE2		0102	0202	0302	0402	0502	0602	0702	0802	0902	1002
ELECTRICAL DATA											
Power supply	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 absorbed power	W	55	55	85	85	75	75	145	145	175	175
2-PIPE SYSTEM CONFIGURATION											
MAX SPEED											
Air flow	m³/h	300	360	520	590	660	815	890	980	1140	1310
Total capacity in cooling mode	(1) kW	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) kW	1,24	1,59	2,22	2,61	2,95	3,52	3,99	4,38	4,66	5,81
Max water flow	(1) m³/h	0,26	0,34	0,49	0,59	0,65	0,76	0,89	0,98	1,06	1,29
Max pressure drop	(1) kPa	9,00	12,7	30,8	34,3	12,6	17,2	24,2	26,9	32,9	46,8
Total capacity (heating mode)	(2) kW	2,17	2,82	3,86	4,40	5,17	6,06	6,94	7,74	8,09	10,1
Water flow in heating mode	(2) m³/h	0,26	0,34	0,49	0,58	0,65	0,76	0,88	0,98	1,06	1,29
Pressure drop in heating mode	(2) kPa	7,60	10,9	26,0	34,1	10,7	14,6	20,3	23,3	29,1	40,9
Noise Pressure	(3) dB(A)	39	45	42	47	45	50	47	50	50	55
Noise Power	(4) dB(A)	48	54	51	56	54	59	56	59	59	64
MED SPEED											
Air flow	m³/h	210	290	410	500	560	670	780	910	1010	1180
Total capacity in cooling mode	(1) kW	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) kW	0,90	1,31	1,77	2,22	2,43	2,95	3,49	3,99	4,16	5,16
Max water flow	(1) m³/h	0,20	0,30	0,40	0,49	0,53	0,65	0,77	0,87	0,93	1,14
Max pressure drop	(1) kPa	5,40	9,60	20,5	24,1	8,20	12,4	18,5	21,2	25,5	36,5
Total capacity (heating mode)	(2) kW	1,62	2,32	3,09	3,84	4,18	5,14	6,15	6,92	7,16	8,89
Water flow in heating mode	(2) m³/h	0,20	0,30	0,40	0,49	0,53	0,65	0,78	0,88	0,93	1,14
Pressure drop in heating mode	(2) kPa	4,70	8,30	17,7	24,2	7,20	10,9	16,2	18,8	22,8	32,5
Noise Pressure	(3) dB(A)	31	39	37	42	39	45	44	47	45	51
Noise Power	(4) dB(A)	40	48	46	51	48	54	53	56	54	60
MIN SPEED											
Air flow	m³/h	180	270	350	380	500	550	640	760	790	920
Total capacity in cooling mode	(1) kW	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) kW	0,78	1,18	1,59	1,75	2,22	2,39	3,00	3,44	3,59	4,14
Max water flow	(1) m³/h	0,17	0,26	0,36	0,40	0,49	0,52	0,70	0,77	0,81	0,93
Max pressure drop	(1) kPa	4,00	7,00	16,2	15,8	7,00	8,00	15,0	16,8	19,4	24,3
Total capacity (heating mode)	(2) kW	1,40	2,08	2,80	3,07	3,82	4,15	5,42	6,12	6,29	7,13
Water flow in heating mode	(2) m³/h	0,17	0,26	0,35	0,40	0,49	0,52	0,70	0,78	0,81	0,92
Pressure drop in heating mode	(2) kPa	3,50	6,20	14,1	16,5	6,20	7,10	13,3	15,0	17,9	22,1
Noise Pressure	(3) dB(A)	28	37	36	37	37	39	41	44	41	45
Noise Power	(4) dB(A)	37	46	45	46	46	48	50	53	50	54
SIZE AND WEIGHT											
a-LIFE2 / DLIV-DFIV											
A	(5) mm	450	450	650	650	850	850	1050	1050	1250	1250
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	11	11	13	14	19	20	23	24	27	28
a-LIFE2 / DLIO-DFIO											
A	(5) mm	545	545	745	745	945	945	1145	1145	1345	1345
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	11	12	14	15	20	21	23	25	27	29
a-LIFE2 / DLMV-DFMV / DLMO-DFMO											
A	(5) mm	922	922	1112	1112	1302	1302	1492	1492	1682	1682
B	(5) mm	233	233	233	233	233	233	233	233	233	233
H	(5) mm	499	499	499	499	499	499	499	499	499	499
Operating weight	(5) kg	16	17	20	21	27	28	32	33	37	38

- 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) 50/* °C (with identical flow note1).
 - 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 from sound power level.
 - 4 Sound power on the basis of measurements made in compliance with ISO 3741 and Eurotest 8/2.
 - 5 Unit in standard configuration/execution, without optional accessories.



a-LIFE2 0102÷1004

Technical data

a-LIFE2		0104	0204	0304	0404	0504	0604	0704	0804	0904	1004
ELECTRICAL DATA											
Power supply	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 absorbed power	W	55	55	85	85	75	75	145	145	175	175
4-PIPE SYSTEM CONFIGURATION											
MAX SPEED											
Air flow	m ³ /h	300	360	520	590	660	815	890	980	1140	1310
Total capacity in cooling mode	(1) kW	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) kW	1,24	1,59	2,22	2,61	2,95	3,52	3,99	4,38	4,66	5,81
Max water flow	(1) m ³ /h	0,26	0,34	0,49	0,59	0,65	0,76	0,89	0,98	1,06	1,29
Max pressure drop	(1) kPa	9,00	12,7	30,8	34,3	12,6	17,2	24,2	26,9	32,9	46,8
Total capacity (heating mode)	(2) kW	1,25	1,67	2,31	2,76	3,34	3,87	4,36	4,82	5,18	6,32
Water flow in heating mode	(2) m ³ /h	0,11	0,15	0,20	0,24	0,29	0,34	0,38	0,42	0,45	0,55
Pressure drop in heating mode	(2) kPa	6,20	10,7	13,3	18,6	27,0	35,6	15,1	18,3	16,7	24,3
Noise Pressure	(3) dB(A)	39	45	42	47	45	50	47	50	48	55
Noise Power	(4) dB(A)	48	54	51	56	54	59	56	59	57	64
MED SPEED											
Air flow	m ³ /h	210	290	410	500	560	670	780	910	1010	1180
Total capacity in cooling mode	(1) kW	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) kW	0,90	1,31	1,77	2,22	2,43	2,95	3,49	3,99	4,16	5,16
Max water flow	(1) m ³ /h	0,20	0,30	0,40	0,49	0,53	0,65	0,77	0,87	0,93	1,14
Max pressure drop	(1) kPa	5,4	9,6	20,5	24,1	8,2	12,4	18,5	21,2	25,5	36,5
Total capacity (heating mode)	(2) kW	0,97	1,45	1,89	2,31	2,71	3,30	3,81	4,28	4,56	5,57
Water flow in heating mode	(2) m ³ /h	0,09	0,13	0,17	0,20	0,24	0,29	0,33	0,38	0,40	0,49
Pressure drop in heating mode	(2) kPa	3,9	8,2	9,1	13,3	18,3	26,4	11,7	14,6	13,1	19,2
Noise Pressure	(3) dB(A)	31	39	37	42	39	45	44	47	45	51
Noise Power	(4) dB(A)	40	48	46	51	48	54	53	56	54	60
MIN SPEED											
Air flow	m ³ /h	180	270	350	380	500	550	640	760	790	920
Total capacity in cooling mode	(1) kW	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) kW	0,78	1,18	1,59	1,75	2,22	2,39	3,00	3,44	3,59	4,14
Max water flow	(1) m ³ /h	0,17	0,26	0,36	0,40	0,49	0,52	0,70	0,77	0,81	0,93
Max pressure drop	(1) kPa	4,00	7,00	16,2	15,8	7,00	8,00	15,0	16,8	19,4	24,3
Total capacity (heating mode)	(2) kW	0,83	1,24	1,68	1,88	2,51	2,65	3,43	3,81	3,97	4,55
Water flow in heating mode	(2) m ³ /h	0,07	0,11	0,15	0,16	0,22	0,23	0,30	0,33	0,35	0,40
Pressure drop in heating mode	(2) kPa	2,90	6,10	7,20	9,00	15,8	17,5	9,50	11,7	10,1	13,1
Noise Pressure	(3) dB(A)	28	37	36	37	37	39	41	44	41	45
Noise Power	(4) dB(A)	37	46	45	46	46	48	50	53	50	54
SIZE AND WEIGHT											
a-LIFE2 / DLIV-DFIV											
A	(5) mm	450	450	650	650	850	850	1050	1050	1250	1250
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	12	12	14	15	21	22	24	25	28	29
a-LIFE2 / DLIO-DFIO											
A	(5) mm	545	545	745	745	945	945	1145	1145	1345	1345
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	12	13	15	16	21	22	25	26	29	30
a-LIFE2 / DLMV-DFMV / DLMO-DFMO											
A	(5) mm	922	922	1112	1112	1302	1302	1492	1492	1682	1682
B	(5) mm	233	233	233	233	233	233	233	233	233	233
H	(5) mm	499	499	499	499	499	499	499	499	499	499
Operating weight	(5) kg	17	18	21	22	29	30	33	35	38	40

Notes:

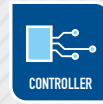
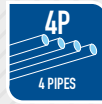
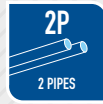
1 Room temperature 27 °C d.b./19°C w.b., Chilled water (in/out) 7/12 °C.

2 Room temperature 20 °C d.b., hot water (in/out) 70/60 °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 from 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.



i-LIFE2 0202÷1004

Professional fan coil unit with cabinet or built-in version, powered by EC brushless centrifugal fan. 2,00-7,50 kW



New i-LIFE2 fan coil unit is powered by a modulating speed centrifugal fan. This new concept of fan coil unit operates with continuous air flow regulation assuring the best comfort and a significant energy savings. Thanks to a variety of versions, with cabinet or built-in, low air intake or front air intake, vertical or horizontal installation, the fan coil unit easily fit any kind of residential or commercial building.

A dedicated range of controllers ensures complete regulation of all the functions, and an easy integration with home automation, centralization and Building Management Systems.

Version

DLMV	version with cabinet, low air intake, vertical installation
DLMO	version with cabinet, low air intake, horizontal installation
DFMV	version with cabinet, front air intake, vertical installation
DFMO	version with cabinet, front air intake, horizontal installation
DLIV	built-in version, low air intake, vertical installation
DLIO	built-in version, low air intake, horizontal installation
DFIV	built-in version, front air intake, vertical installation
DFIO	built-in version, front air intake, horizontal installation

Features

- High efficiency EC motor.
- Modulating speed centrifugal fan and air flow regulation.
- Energy consumption reduced by more than 50%
- Coils with aluminium fins and copper pipes.
- Configurations for 2 and 4-pipe systems.
- Left-hand water connections, easy convertible into right-hand, by simply turning the coil
- Air filter on all models.
- Automatically closing flap to cover and protect electric controls from dripping water (in conformity with directive 60335-2-40).
- Elegant cover structure that integrates the use of high quality plastic materials, with traditional galvanized and pre-coated materials.
- Structure in galvanized steel of high thickness for maximum resistance to rust;
- Auxiliary drain pan with thermal insulation for all Horizontal versions, made of galvanized steel.
- Plastic drain pan for all vertical versions.

Accessories

- Hot water coil kit
- Kit RS485 - interface for Building Management System
- Kit control board to manage 0-10V or 3 points modulating valve unit
- Main coil 2-way/3-way valve unit
- Additional coil 2-way/3-way valve unit
- Kit LIFE2 BOX
- Kit Gateway interface for MyHome Bticino System
- Air intake grille kit with version cover
- Straight and angular (90°) plenum kits for air outlet
- Plenum kit with round, straight or 90° air ducts.
- Straight and angular (90°) plenum kits for air inlet
- Heating element kit
- Horizontal and vertical fan coil unit auxiliary tray

Controls

EK plug-in control /EKW wall mounted control

User interface for selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control of main and additional coil valve unit (summer/winter - 2 and 4-pipe installation). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch. Modbus protocol for installation in BMS (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE fan coil units. Easy control installation thanks to 2 wires connection.

iK control with LCD screen

Interface with LCD screen with user-friendly icons. Control kit for universal installation: wall-mounted as well as plug-in. Selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control iK could function

manually or with weekly timer regulation configurable by the customer. Control of main coil valve unit (summer/winter - 2-pipe) and additional coil (winter - 4-pipe). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points (supply 230 VAC or 24V). Parameters configurable directly by user. Modbus protocol for installation in Building Management System (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection through HB power board.

Remote control

Set-point regulation. Selection of functioning mode (cool, heat, dehumidify, fan), fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics. AT-EC plug-in control/ATW-EC wall mounted control User interface for selection of functioning mode (Off/Summer/

Winter/Auto), fan speed (Max,Med,Min,Auto), and temperature set. Control of main and additional coil valve unit. (summer/winter 2 and 4-pipe installation). Management of traditional ON/OFF valve unit. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch. The controls can not be connected to BMS system.

Technical data

i-LIFE2		0202	0402	0602	0802	1002
ELECTRICAL DATA						
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	48	54	65	74	73
2-PIPE SYSTEM CONFIGURATION						
MAX SPEED						
Air flow	m ³ /h	360	590	815	980	1310
Total capacity in cooling mode	(1) kW	2,00	3,40	4,40	5,70	7,50
Sensible capacity in cooling mode	(1) kW	1,59	2,61	3,52	4,38	5,81
Max water flow	(1) m ³ /h	0,34	0,59	0,76	0,98	1,29
Max pressure drop	(1) kPa	12,7	34,3	17,2	26,9	46,8
Total capacity (heating mode)	(2) kW	2,82	4,40	6,06	7,74	10,1
Water flow in heating mode	(2) m ³ /h	0,34	0,58	0,76	0,98	1,29
Pressure drop in heating mode	(2) kPa	10,9	34,1	14,6	23,3	40,9
Noise Pressure	(3) dB(A)	48	51	53	54	56
Noise Power	(4) dB(A)	57	60	62	63	65
MED SPEED						
Air flow	m ³ /h	270	380	550	760	920
Total capacity in cooling mode	(1) kW	1,49	2,31	3,02	4,50	5,40
Sensible capacity in cooling mode	(1) kW	1,18	1,75	2,39	3,44	4,14
Max water flow	(1) m ³ /h	0,26	0,40	0,52	0,77	0,93
Max pressure drop	(1) kPa	7,00	15,8	8,00	16,8	24,3
Total capacity (heating mode)	(2) kW	2,08	3,07	4,15	6,12	7,13
Water flow in heating mode	(2) m ³ /h	0,26	0,40	0,52	0,78	0,92
Pressure drop in heating mode	(2) kPa	6,20	16,5	7,1	15,0	22,1
Noise Pressure	(3) dB(A)	39	42	44	45	47
Noise Power	(4) dB(A)	48	51	53	54	56
MIN SPEED						
Air flow	m ³ /h	180	238	286	328	542
Total capacity in cooling mode	(1) kW	1,02	1,48	1,94	2,42	3,27
Sensible capacity in cooling mode	(1) kW	0,81	1,15	1,49	1,88	2,46
Max water flow	(1) m ³ /h	0,18	0,25	0,33	0,42	0,56
Max pressure drop	(1) kPa	3,30	6,50	3,30	4,80	9,00
Total capacity (heating mode)	(2) kW	1,43	1,97	2,67	3,29	4,32
Water flow in heating mode	(2) m ³ /h	0,18	0,25	0,33	0,42	0,56
Pressure drop in heating mode	(2) kPa	3,00	7,10	3,10	4,70	8,70
Noise Pressure	(3) dB(A)	31	33	33	34	37
Noise Power	(4) dB(A)	40	42	42	43	46
SIZE AND WEIGHT						
i-LIFE2 / DLIV-DFIV						
A	(5) mm	450	650	850	1050	1250
B	(5) mm	215	215	215	215	215
H	(5) mm	450	450	450	450	450
Operating weight	(5) kg	11	14	21	24	28
i-LIFE2 / DLIO-DFIO						
A	(5) mm	545	745	945	1145	1345
B	(5) mm	215	215	215	215	215
H	(5) mm	450	450	450	450	450
Operating weight	(5) kg	12	15	21	25	29
i-LIFE2 / DLMV-DFMV / DLMO-DFMO						
A	(5) mm	922	1112	1302	1492	1682
B	(5) mm	233	233	233	233	233
H	(5) mm	499	499	499	499	499
Operating weight	(5) kg	14	17	24	28	32

- 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) 50/* °C (with identical flow note1).
 - 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 from 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.



i-LIFE2 0202÷1004

Technical data

i-LIFE2		0204	0404	0604	0804	1004
ELECTRICAL DATA						
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	48	54	65	74	73
4-PIPE SYSTEM CONFIGURATION						
MAX SPEED						
Air flow	m ³ /h	360	590	815	980	1310
Total capacity in cooling mode	(1) kW	2,00	3,40	4,40	5,70	7,50
Sensible capacity in cooling mode	(1) kW	1,59	2,61	3,52	4,38	5,81
Max water flow	(1) m ³ /h	0,34	0,59	0,76	0,98	1,29
Max pressure drop	(1) kPa	12,7	34,3	17,2	26,9	46,8
Total capacity (heating mode)	(2) kW	1,67	2,76	3,87	4,82	6,32
Water flow in heating mode	(2) m ³ /h	0,15	0,24	0,34	0,42	0,55
Pressure drop in heating mode	(2) kPa	10,7	18,6	35,6	18,3	24,3
Noise Pressure	(3) dB(A)	48	51	53	54	56
Noise Power	(4) dB(A)	57	60	62	63	65
MED SPEED						
Air flow	m ³ /h	270	380	550	760	920
Total capacity in cooling mode	(1) kW	1,49	2,31	3,02	4,50	5,40
Sensible capacity in cooling mode	(1) kW	1,18	1,75	2,39	3,44	4,14
Max water flow	(1) m ³ /h	0,26	0,40	0,52	0,77	0,93
Max pressure drop	(1) kPa	7,00	15,8	8,0	16,8	24,3
Total capacity (heating mode)	(2) kW	1,24	1,88	2,65	3,81	4,55
Water flow in heating mode	(2) m ³ /h	0,11	0,16	0,23	0,33	0,40
Pressure drop in heating mode	(2) kPa	6,10	9,00	17,5	11,7	13,1
Noise Pressure	(3) dB(A)	39	42	44	45	47
Noise Power	(4) dB(A)	48	51	53	54	56
MIN SPEED						
Air flow	m ³ /h	180	238	286	328	542
Total capacity in cooling mode	(1) kW	1,02	1,48	1,94	2,42	3,27
Sensible capacity in cooling mode	(1) kW	0,81	1,15	1,49	1,88	2,46
Max water flow	(1) m ³ /h	0,18	0,25	0,33	0,42	0,56
Max pressure drop	(1) kPa	3,30	6,50	3,30	4,80	9,00
Total capacity (heating mode)	(2) kW	0,85	1,20	1,71	2,05	2,75
Water flow in heating mode	(2) m ³ /h	0,07	0,11	0,15	0,18	0,24
Pressure drop in heating mode	(2) kPa	3,00	3,80	7,70	3,60	5,10
Noise Pressure	(3) dB(A)	31	33	33	34	37
Noise Power	(4) dB(A)	40	42	42	43	46
SIZE AND WEIGHT						
i-LIFE2 / DLIV-DFIV						
A	(5) mm	450	650	850	1050	1250
B	(5) mm	215	215	215	215	215
H	(5) mm	450	450	450	450	450
Operating weight	(5) kg	12	15	22	26	30
i-LIFE2 / DLIO-DFIO						
A	(5) mm	545	745	945	1145	1345
B	(5) mm	215	215	215	215	215
H	(5) mm	450	450	450	450	450
Operating weight	(5) kg	12	16	22	26	30
i-LIFE2 / DLMV-DFMV / DLMO-DFMO						
A	(5) mm	922	1112	1302	1492	1682
B	(5) mm	233	233	233	233	233
H	(5) mm	499	499	499	499	499
Operating weight	(5) kg	15	18	25	29	33

Notes:

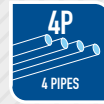
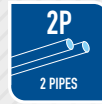
1 Room temperature 27 °C d.b./19°C w.b., Chilled water (in/out) 7/12 °C.

2 Room temperature 20 °C d.b., hot water (in/out) 70/60 °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 from 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.



a-LIFE2 HP 0302÷1204

Fan coil unit for professional application, built-in version.
2,88-8,60 kW

a-LIFE2 HP are professional fan coil units. The enhanced motor and the built-in version make these units ideal for ducted systems in tertiary and commercial sectors.



Version

- DLIV** built-in version, front air intake, horizontal installation
- DFIV** built-in version, front air intake, vertical installation
- DLIO** built-in version, low air intake, horizontal installation
- DLIV** built-in version, low air intake, vertical installation

Features

- High pressure centrifugal fan unit for ducted system;
- Multi speed directly coupled electric motor;
- Configurations for 2 and 4-pipe Systems.
- Structure in hot galvanised steel for maximum resistance to rust;
- Left-hand water connections, easy convertible into right-hand, by simply turning the coil
- Air filter on all models.
- Auxiliary drain pan with thermal insulation for all Horizontal versions, made of galvanized steel.
- Plastic drain pan for all Vertical versions.

Accessories

- Hot water coil kit
- Main coil 2-way/3-way valve unit
- Main and additional coil valve unit ON/OFF, PWM, 0-10 V, 3 points 2-way or 3-way
- Kit control board to manage 0-10V or 3 points modulating valve unit
- Kit RS485 - interface for Building Management System
- Kit Bus Adapter for BMS
- Kit Gateway interface for MyHome Bticino System
- Interface SPB Kit
- Heating element kit
- Condensate drain pump
- Horizontal and vertical fan coil unit auxiliary tray
- Hose kit
- Straight and angular (90°) plenum kits for air inlet
- Plenum kit with round, straight or 90° air ducts.

Controls

ATW wall mounted

Mode button (OFF/summer/winter/AUTO), fan speed button (Max/Med/Min/AUTO). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2 and 4-pipe installation). Control of traditional or PWM modulating valve units. Room temperature probe and water temperature probe. Digital input configurable as: window contact, economy, heating or cooling remote changeover, periodic ventilation. Configuration dip switch. TTL serial port with Modbus protocol for installation in BMS.

MTW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Room temperature probe. Remote water temperature probe.

PSW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Remote water temperature probe.

Remote Control EKW

User interface for selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control of main and additional coil valve unit (summer/winter - 2 and 4-pipe installation). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch. Modbus protocol for installation in BMS (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection.

iK control with LCD screen

Interface with LCD screen with user-friendly icons. Control kit for universal installation: wall-mounted as well as plug-in. Selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control iK could function manually or with weekly timer regulation configurable by the customer. Control of main coil valve unit (summer/winter - 2-pipe) and additional coil (winter - 4-pipe). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points (supply 230 VAC or 24V). Parameters configurable directly by user. Modbus protocol for installation in Building Management System (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection through HB power board.

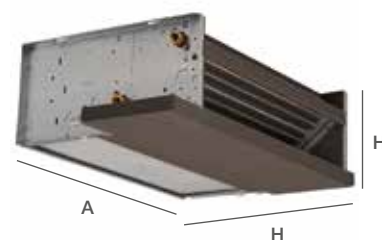
Remote control

Set-point regulation. Selection of functioning mode (cool, heat, dehumidify, fan), fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics.

Technical data

a-LIFE2 HP		0302	0402	0502	0602	0702	0802	0902	1002	1102	1202
ELECTRICAL DATA											
Power supply	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 absorbed power	W	127	127	115	115	196	196	225	225	285	285
2-PIPE SYSTEM CONFIGURATION											
MAX SPEED											
Air flow	m ³ /h	561	623	705	783	1004	1116	1390	1544	1740	1933
Total capacity in cooling mode	(1) kW	2,88	3,28	3,74	4,14	4,62	5,20	6,20	7,20	8,05	8,60
Sensible capacity in cooling mode	(1) kW	2,39	2,77	2,93	3,53	3,91	4,44	5,14	5,91	6,99	7,32
Max water flow	(1) m ³ /h	0,50	0,56	0,64	0,71	0,80	0,90	1,07	1,24	1,39	1,48
Max pressure drop	(1) kPa	31,5	31,9	12,2	15,2	19,5	22,4	33,5	43,1	14,2	15,9
Total capacity (heating mode)	(2) kW	3,83	4,35	4,96	5,49	6,13	6,91	8,22	9,55	10,7	11,4
Water flow in heating mode	(2) m ³ /h	0,50	0,56	0,64	0,71	0,79	0,89	1,07	1,24	1,38	1,48
Pressure drop in heating mode	(2) kPa	26,7	31,9	10,4	12,9	16,8	19,6	29,4	37,9	14,1	15,8
Noise Pressure	(3) dB(A)	52	56	47	51	52	55	54	59	57	59
Noise Power	(4) dB(A)	61	65	56	60	61	64	63	68	66	68
MED SPEED											
Air flow	m ³ /h	500	555	525	583	767	852	1078	1198	1547	1719
Total capacity in cooling mode	(1) kW	2,31	2,70	3,04	3,23	3,57	4,49	5,70	6,25	7,50	8,10
Sensible capacity in cooling mode	(1) kW	1,90	2,24	2,31	2,66	2,84	3,74	4,67	5,15	6,46	7,03
Max water flow	(1) m ³ /h	0,40	0,46	0,52	0,56	0,61	0,77	0,98	1,08	1,29	1,39
Max pressure drop	(1) kPa	20,2	21,6	8,00	9,20	11,6	16,7	28,3	32,5	12,3	14,0
Total capacity (heating mode)	(2) kW	3,07	3,58	4,03	4,28	4,74	5,96	7,57	8,29	9,95	10,8
Water flow in heating mode	(2) m ³ /h	0,40	0,46	0,52	0,55	0,61	0,77	0,98	1,07	1,29	1,39
Pressure drop in heating mode	(2) kPa	17,5	22,1	7,00	8,00	10,3	14,9	25,2	29,2	12,2	14,0
Noise Pressure	(3) dB(A)	45	52	41	44	41	49	51	54	55	57
Noise Power	(4) dB(A)	54	61	50	53	50	58	60	63	64	66
MIN SPEED											
Air flow	m ³ /h	392	435	464	516	584	649	923	1026	1381	1534
Total capacity in cooling mode	(1) kW	2,08	2,21	2,28	2,92	3,22	3,50	4,83	5,40	6,90	7,40
Sensible capacity in cooling mode	(1) kW	1,69	1,82	1,71	2,37	2,49	2,78	3,88	4,42	5,83	6,25
Max water flow	(1) m ³ /h	0,36	0,38	0,39	0,50	0,55	0,60	0,83	0,93	1,19	1,27
Max pressure drop	(1) kPa	16,3	14,5	4,50	7,50	9,40	10,1	20,4	24,3	10,4	11,7
Total capacity (heating mode)	(2) kW	2,76	2,94	3,02	3,88	4,27	4,65	6,41	7,16	9,15	9,82
Water flow in heating mode	(2) m ³ /h	0,36	0,38	0,39	0,50	0,55	0,60	0,83	0,93	1,19	1,27
Pressure drop in heating mode	(2) kPa	14,3	15,1	4,00	6,60	8,50	9,30	18,6	22,3	10,3	11,7
Noise Pressure	(3) dB(A)	42	45	34	41	38	41	47	51	54	54
Noise Power	(4) dB(A)	51	54	43	50	47	50	56	60	63	63
SIZE AND WEIGHT											
a-LIFE2 HP DFIV/DLIV											
A	(5) mm	650	650	850	850	1050	1050	1250	1250	1450	1450
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	14	15	20	21	24	25	28	29	31	34
a-LIFE2 HP DFIO/DLIO											
A	(5) mm	745	745	945	945	1145	1145	1345	1345	1545	1545
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	14	15	20	21	24	25	28	29	31	34

- 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) 50/° °C (with identical flow note1).
 - 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 from 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.



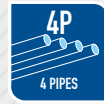
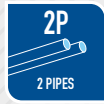
a-LIFE2 HP 0302÷1204

Technical data

a-LIFE2 HP		0304	0404	0504	0604	0704	0804	0904	1004	1104	1204
ELECTRICAL DATA											
Power supply	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 absorbed power	W	127	127	115	115	196	196	225	225	285	285
4-PIPE SYSTEM CONFIGURATION											
MAX SPEED											
Air flow	m³/h	561	623	705	783	1004	1116	1390	1544	1740	1933
Total capacity in cooling mode	(1) kW	2,88	3,28	3,74	4,14	4,62	5,20	6,20	7,20	8,05	8,60
Sensible capacity in cooling mode	(1) kW	2,39	2,77	3,15	3,53	3,91	4,44	5,14	5,91	6,99	7,32
Max water flow	(1) m³/h	0,50	0,56	0,64	0,71	0,80	0,90	1,07	1,24	1,39	1,48
Max pressure drop	(1) kPa	31,5	31,9	12,2	15,2	19,5	22,4	34,2	43,1	14,2	15,9
Total capacity (heating mode)	(2) kW	2,34	2,66	3,29	3,64	3,71	4,18	4,96	5,76	6,44	6,88
Water flow in heating mode	(2) m³/h	0,21	0,23	0,29	0,32	0,33	0,37	0,43	0,50	0,56	0,60
Pressure drop in heating mode	(2) kPa	13,6	17,3	26,3	31,7	11,1	13,9	15,4	20,4	17,9	20,1
Noise Pressure	(3) dB(A)	52	56	47	51	52	55	54	59	57	59
Noise Power	(4) dB(A)	61	65	56	60	61	64	63	68	66	68
MED SPEED											
Air flow	m³/h	500	555	525	583	767	852	1078	1198	1547	1719
Total capacity in cooling mode	(1) kW	2,31	2,70	3,04	3,23	3,57	4,49	5,70	6,25	7,50	8,10
Sensible capacity in cooling mode	(1) kW	1,90	2,24	2,48	2,66	2,84	3,74	4,67	5,15	6,46	7,03
Max water flow	(1) m³/h	0,40	0,46	0,52	0,56	0,61	0,77	0,98	1,08	1,29	1,39
Max pressure drop	(1) kPa	20,2	21,6	8,0	9,2	11,6	16,7	28,9	32,5	12,3	14,0
Total capacity (heating mode)	(2) kW	1,88	2,19	2,67	2,84	2,87	3,61	4,56	5,00	6,00	6,48
Water flow in heating mode	(2) m³/h	0,16	0,19	0,23	0,25	0,25	0,32	0,40	0,44	0,53	0,57
Pressure drop in heating mode	(2) kPa	9,00	12,0	17,8	20,0	6,80	10,5	13,1	15,6	15,7	18,1
Noise Pressure	(3) dB(A)	45	52	41	44	41	49	51	54	55	57
Noise Power	(4) dB(A)	54	61	50	53	50	58	60	63	64	66
MIN SPEED											
Air flow	m³/h	392	435	464	516	584	649	923	1026	1381	1534
Total capacity in cooling mode	(1) kW	2,08	2,21	2,28	2,92	3,22	3,50	4,83	5,40	6,90	7,40
Sensible capacity in cooling mode	(1) kW	1,69	1,82	1,84	2,37	2,49	2,78	3,88	4,42	5,83	6,25
Max water flow	(1) m³/h	0,36	0,38	0,39	0,50	0,55	0,60	0,83	0,93	1,19	1,27
Max pressure drop	(1) kPa	16,3	14,5	4,5	7,5	9,4	10,1	20,8	24,3	10,4	11,7
Total capacity (heating mode)	(2) kW	1,69	1,79	2,00	2,57	2,59	2,81	3,86	4,32	5,52	5,92
Water flow in heating mode	(2) m³/h	0,15	0,16	0,18	0,23	0,23	0,25	0,34	0,38	0,48	0,52
Pressure drop in heating mode	(2) kPa	7,30	8,20	10,4	16,6	5,60	6,50	9,60	11,9	13,5	15,4
Noise Pressure	(3) dB(A)	42	45	34	41	38	41	49	51	54	54
Noise Power	(4) dB(A)	51	54	43	50	47	50	58	60	63	63
SIZE AND WEIGHT											
a-LIFE2 HP DFIV/DLIV											
A	(5) mm	650	650	850	850	1050	1050	1250	1250	1450	1450
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	15	16	21	22	25	26	29	31	32	35
a-LIFE2 HP DFIO/DLIO											
A	(5) mm	745	745	945	945	1145	1145	1345	1345	1545	1545
B	(5) mm	215	215	215	215	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	15	16	21	22	25	27	29	31	32	36

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) 70/60 °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 from 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.



i-LIFE2 HP 0202÷1204

High head professional fan coil unit with Brushless EC motor for continuous regulation of airflow and fan speed.



i-LIFE2 HP are the new high head Fan coil unit Climaveneta in built in version with EC Brushless motor. The continuous regulation of air flow and cooling and heating capacity guarantees a total comfort and high energy saving. i-LIFE2 HP is the ideal solution for ducted systems and installations in tertiary and commercial sectors.

Version

- DLIV** built-in version, front air intake, horizontal installation
- DFIV** built-in version, front air intake, vertical installation
- DLIO** built-in version, low air intake, horizontal installation
- DLIV** built-in version, low air intake, vertical installation

Features

- High pressure centrifugal fan unit for ducted system;
- High efficiency EC motor.
- Modulating speed centrifugal fan and air flow regulation.
- Energy consumption reduced by more than 50%
- Coils with aluminium fins and copper pipes.
- Configurations for 2 and 4-pipe Systems.
- Left-hand water connections, easy convertible into right-hand, by simply turning the coil
- Air filter on all models.
- Structure in galvanised steel of high thickness for maximum resistance to rust;
- Auxiliary drain pan with thermal insulation for all Horizontal versions, made of galvanized steel.
- Plastic drain pan for all Vertical versions.

Accessories

- Additional coil 2-way/3-way valve unit
- Main coil 2-way/3-way valve unit
- Hot water coil kit
- Kit control board to manage 0-10V or 3 points modulating valve unit
- Kit RS485 - interface for Building Management System
- Kit Gateway interface for MyHome Bticino System
- Interface SPB Kit
- Hose kit
- Plenum kit with round, straight or 90° air ducts.
- Heating element kit
- i-HB Power box
- Condensate drain pump
- Horizontal and vertical fan coil unit auxiliary tray

Controls

Remote Control EKW

User interface for selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control of main and additional coil valve unit (summer/winter - 2 and 4-pipe installation). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch. Modbus protocol for installation in BMS (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection.

iK control with LCD screen

Interface with LCD screen with user-friendly icons. Control kit for universal installation: wall-mounted as well as plug-in. Selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control

iK could function manually or with weekly timer regulation configurable by the customer. Control of main coil valve unit (summer/winter - 2-pipe) and additional coil (winter - 4-pipe). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points (supply 230 VAC or 24V). Parameters configurable directly by user. Modbus protocol for installation in Building Management System (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection through HB power board.

ATW-EC Wall Control

User interface for selection of functioning mode (Off/Summer/Winter/Auto), fan speed (Max, Med, Min, Auto), and temperature set. Control of main and additional coil valve unit. (summer/winter 2 and 4-pipe installation). Management of traditional ON/OFF valve unit. Air and water temperature

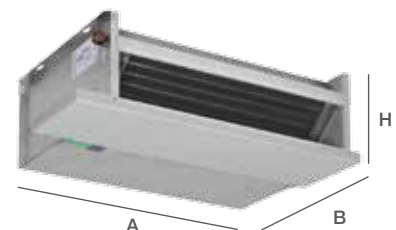
probe. Multifunction digital input configurable by user. Configuration dip switch. The controls can be connected to BMS system.

Technical data

i-LIFE2 HP		0202	0402	0602	0802	1002	1202
ELECTRICAL DATA							
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	70	65	85	85	85	180
2-PIPE SYSTEM CONFIGURATION							
MAX SPEED							
Air flow	m ³ /h	363	586	808	976	1351	1805
Total capacity in cooling mode	(1) kW	2,00	3,38	4,36	5,68	7,50	8,76
Sensible capacity in cooling mode	(1) kW	1,59	2,59	3,49	4,36	5,81	7,11
Max water flow	(1) m ³ /h	0,34	0,58	0,75	0,98	1,29	1,51
Max pressure drop	(1) kPa	12,7	33,9	16,9	26,7	46,8	16,5
Total capacity (heating mode)	(2) kW	2,82	4,37	6,00	7,71	10,1	11,6
Water flow in heating mode	(2) m ³ /h	0,34	0,58	0,75	0,98	1,29	1,51
Pressure drop in heating mode	(2) kPa	10,8	34,0	14,3	23,2	41,1	16,5
Noise Pressure	(3) dB(A)	48	51	53	54	56	60
Noise Power	(4) dB(A)	57	60	62	63	65	69
MED SPEED							
Air flow	m ³ /h	262	377	548	755	917	1437
Total capacity in cooling mode	(1) kW	1,45	2,29	3,01	4,48	5,38	7,55
Sensible capacity in cooling mode	(1) kW	1,14	1,74	2,39	3,42	4,13	6,35
Max water flow	(1) m ³ /h	0,25	0,39	0,52	0,77	0,93	1,30
Max pressure drop	(1) kPa	6,7	15,6	8,0	16,6	24,2	12,2
Total capacity (heating mode)	(2) kW	2,02	3,05	4,14	6,09	7,11	10,0
Water flow in heating mode	(2) m ³ /h	0,25	0,39	0,52	0,77	0,93	1,30
Pressure drop in heating mode	(2) kPa	5,9	16,3	7,1	14,9	22,2	12,2
Noise Pressure	(3) dB(A)	38	42	44	45	47	59
Noise Power	(4) dB(A)	47	51	53	54	56	68
MIN SPEED							
Air flow	m ³ /h	176	242	289	318	536	811
Total capacity in cooling mode	(1) kW	1,00	1,50	1,95	2,35	3,23	4,65
Sensible capacity in cooling mode	(1) kW	0,79	1,16	1,50	1,83	2,44	4,27
Max water flow	(1) m ³ /h	0,17	0,26	0,34	0,40	0,56	0,80
Max pressure drop	(1) kPa	3,1	6,7	3,3	4,6	8,8	4,6
Total capacity (heating mode)	(2) kW	1,39	2,00	2,69	3,19	4,28	6,17
Water flow in heating mode	(2) m ³ /h	0,17	0,26	0,34	0,40	0,56	0,80
Pressure drop in heating mode	(2) kPa	2,9	7,3	3,1	4,4	8,7	4,6
Noise Pressure	(3) dB(A)	31	33	33	34	37	57
Noise Power	(4) dB(A)	40	42	42	43	46	66
SIZE AND WEIGHT							
i-LIFE2 HP DFIV/DLIV							
A	(5) mm	450	650	850	1050	1250	1450
B	(5) mm	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450
Operating weight	(5) kg	11	14	20	24	28	34
i-LIFE2 HP DFIO/DLIO							
A	(5) mm	545	745	945	1145	1345	1545
B	(5) mm	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450
Operating weight	(5) kg	12	15	21	25	29	34

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) 50/* °C (with identical flow note1).
- 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 from 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.



i-LIFE2 HP 0202÷1204

Technical data

i-LIFE2 HP		0204	0404	0604	0804	1004	1204
ELECTRICAL DATA							
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	70	65	85	85	85	180
4-PIPE SYSTEM CONFIGURATION							
MAX SPEED							
Air flow	m³/h	363	586	808	976	1351	1805
Total capacity in cooling mode	(1) kW	2,00	3,38	4,36	5,68	7,50	8,76
Sensible capacity in cooling mode	(1) kW	1,59	2,59	3,49	4,36	5,81	7,11
Max water flow	(1) m³/h	0,34	0,58	0,75	0,98	1,29	1,51
Max pressure drop	(1) kPa	12,7	33,9	16,9	26,7	46,8	16,5
Total capacity (heating mode)	(2) kW	1,58	2,59	3,62	4,53	5,97	6,62
Water flow in heating mode	(2) m³/h	0,14	0,23	0,32	0,40	0,52	0,58
Pressure drop in heating mode	(2) kPa	9,6	16,5	31,5	16,3	21,8	18,8
Noise Pressure	(3) dB(A)	48	51	53	54	56	60
Noise Power	(4) dB(A)	57	60	62	63	65	69
MED SPEED							
Air flow	m³/h	262	377	548	755	917	1437
Total capacity in cooling mode	(1) kW	1,45	2,29	3,01	4,48	5,38	7,55
Sensible capacity in cooling mode	(1) kW	1,14	1,74	2,39	3,42	4,13	6,35
Max water flow	(1) m³/h	0,25	0,39	0,52	0,77	0,93	1,30
Max pressure drop	(1) kPa	6,7	15,6	8,0	16,6	24,2	12,2
Total capacity (heating mode)	(2) kW	1,14	1,76	2,49	3,58	4,28	5,70
Water flow in heating mode	(2) m³/h	0,10	0,15	0,22	0,31	0,38	0,50
Pressure drop in heating mode	(2) kPa	5,2	8,0	15,7	10,4	11,7	14,4
Noise Pressure	(3) dB(A)	38	42	44	45	47	59
Noise Power	(4) dB(A)	47	51	53	54	56	68
MIN SPEED							
Air flow	m³/h	176	242	289	318	536	811
Total capacity in cooling mode	(1) kW	1,00	1,50	1,95	2,35	3,23	4,65
Sensible capacity in cooling mode	(1) kW	0,79	1,16	1,50	1,83	2,44	4,27
Max water flow	(1) m³/h	0,17	0,26	0,34	0,40	0,56	0,80
Max pressure drop	(1) kPa	3,1	6,7	3,3	4,6	8,8	4,6
Total capacity (heating mode)	(2) kW	0,79	1,15	1,63	1,88	2,57	3,48
Water flow in heating mode	(2) m³/h	0,07	0,10	0,14	0,16	0,23	0,30
Pressure drop in heating mode	(2) kPa	2,6	3,6	7,0	3,0	4,5	5,9
Noise Pressure	(3) dB(A)	31	33	33	34	37	57
Noise Power	(4) dB(A)	40	42	42	43	46	66
SIZE AND WEIGHT							
i-LIFE2 HP DFIV/DLIV							
A	(5) mm	450	650	850	1050	1250	1450
B	(5) mm	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450
Operating weight	(5) kg	12	15	22	25	29	35
i-LIFE2 HP DFIO/DLIO							
A	(5) mm	545	745	945	1145	1345	1545
B	(5) mm	215	215	215	215	215	215
H	(5) mm	450	450	450	450	450	450
Operating weight	(5) kg	12	16	22	26	30	36

Notes:

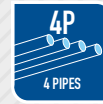
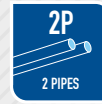
1 Room temperature 27 °C d.b./19°C w.b., Chilled water (in/out) 7/12 °C.

2 Room temperature 20 °C d.b., hot water (in/out) 70/60 °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 from 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.



i-LIFE Slim 102÷502

Residential fan coil units with cabinet or concealed version, with inverter motor and tangential fan. 0,84-3,86 kW



i-LIFE SLIM is the new fan coil unit, with inverter technology for heating, cooling and dehumidifying. Its elegant design with only 13 cm depth makes i-LIFE Slim the perfect solution for residential applications. The fan coil unit is also available with i-LIFE R-SLIM inverter version with radiant panel. The brushless motor allows a perfect adaptation to thermal load, without any temperature fluctuations. Tangential fans operate through continuous air flow

modulation, with no speed steps or relay switching as traditional fan coil units. High efficiency is guaranteed in any HVAC installation setup, in combination with any low temperature heat generator.

Version

- 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.

Features

- DC motor with inverter technology with continuous speed regulation, to ensure the best performance with a very low noise level.
- Elegant design and reduced depth of only 13 cm, for installation in a residential environment.
- Tangential fan with asymmetric blades that ensures the continuous modulation of the air flow for a better comfort and real energy savings.
- Coil with large frontal area that allows to reach high air flow with very low pressure drop.
- Honeycomb polypropylene air filter which can be regenerated by washing or blowing.
- Elegant cover structure that integrates the use of high quality plastic materials, with traditional galvanized and epoxy powder coated materials.
- Configuration for 2-pipe systems.

Accessories

- Drain Pan for horizontal installation
- Main coil 2-way/3-way valve unit
- Fitting for air intake in built-in installation
- Telescopic air flow duct and 90° duct for false ceiling and build in installation
- Aluminium air flow vent for wall mounting
- Aluminium Air intake grid
- UVC air sterilisation device
- Casing for build in version - i-LIFE Slim Box
- Casing cover panel with frame and front panel grid
- Eurokonus adapter
- Pair of decorative and structural feet

Controls

iKS2 - On board Control

On-board control for unit with cabinet complete with touch keypad with 8 touch key, LCD display with colored symbols. Modulating fan speed with PID logic, temperature regulation, winter/summer mode, automatic mode for the speed regulation, night mode for a silent operation. Minimum water probe and solenoid management, it's possible to manage the function even without the water probe.

Remote Control iKSW2

Remote control for built-in and with cabinet units complete with touch keypad with 8 touch keys, LCD display with colored symbols. Modulating fan speed with PID logic, temperature regulation, winter/summer mode, automatic mode for the speed regulation, night mode for a silent operation. Minimum water probe and solenoid valve management. A maximum of 31 fan coil units can be

connected to the iKSW control for open space rooms. Each unit must have the iHBS2 powerboard installed. RS485 output for connection in BMS.

iHBS2 - On board simplified Control

Simple on board control for built-in and with cabinet units, to be coupled with remote control iKSW2. iHBS2 control has a LED for the visualization of the device's operation. All the parameters are set up from iKSW2. It is possible to manage the function even without the water probe. The iHBS2 powerboard is able to supply power to iKSW2 control.

ATS2 - Control with 4 speed regulation

Controller for units with cabinet. Interface with 8 keys for the temperature selection, winter/summer mode, 4 speed regulation, (Max. Min. Night and Auto) with display for room temperature visualization. Minimum water temperature

probe and solenoid valve management. It's possible to manage the function even without the water probe.

HBS2 Control - Powerboard card

On board control for built-in units or with cabinet units, to be coupled with ATW Climaveneta remote control or other remote controls which manage the regulation of fixed fan speeds. All the parameters are set up from the remote control. There are 2 versions of this powerboard. Version for ON/OFF signal (HBS2) and version for 0-10V signal (HBS2010)

Technical data

i-LIFE SLIM		0102	0202	0302	0402	0502
ELECTRICAL DATA						
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	18	27	35	35	37
2-PIPE SYSTEM CONFIGURATION						
MAX SPEED						
Air flow	m ³ /h	162	320	461	576	648
Total capacity in cooling mode	(1) kW	0,84	1,79	2,69	3,39	3,86
Sensible capacity in cooling mode	(1) kW	0,63	1,29	1,99	2,69	3,06
Max water flow	(1) m ³ /h	0,15	0,31	0,46	0,58	0,66
Mad pressure drop	(1) kPa	7,40	5,50	22,6	19,1	25,0
Total capacity (heating mode)	(2) kW	1,12	2,38	3,29	4,19	4,96
Water flow in heating mode	(2) m ³ /h	0,15	0,31	0,46	0,58	0,67
Pressure drop in heating mode	(2) kPa	7,40	5,50	22,1	19,0	25,1
Noise Pressure	(3) dB(A)	41	42	44	45	46
Noise Power	(4) dB(A)	50	51	53	54	55
MED SPEED						
Air flow	m ³ /h	113	252	367	453	494
Total capacity in cooling mode	(1) kW	0,71	1,57	2,26	2,82	3,12
Sensible capacity in cooling mode	(1) kW	0,53	1,15	1,75	2,12	2,38
Max water flow	(1) m ³ /h	0,12	0,27	0,39	0,49	0,54
Mad pressure drop	(1) kPa	5,30	4,30	16,3	13,4	15,9
Total capacity (heating mode)	(2) kW	0,91	2,04	2,76	3,49	4,04
Water flow in heating mode	(2) m ³ /h	0,12	0,27	0,39	0,49	0,54
Pressure drop in heating mode	(2) kPa	5,20	4,30	16,3	13,4	15,9
Noise Pressure	(3) dB(A)	35	36	36	37	40
Noise Power	(4) dB(A)	44	45	45	46	49
MIN SPEED						
Air flow	m ³ /h	55	155	248	370	426
Total capacity in cooling mode	(1) kW	0,37	1,07	1,47	2,42	2,73
Sensible capacity in cooling mode	(1) kW	0,27	0,76	1,21	1,82	2,09
Max water flow	(1) m ³ /h	0,06	0,18	0,25	0,42	0,47
Mad pressure drop	(1) kPa	1,40	2,00	7,30	9,90	12,0
Total capacity (heating mode)	(2) kW	0,39	1,40	1,82	3,00	3,59
Water flow in heating mode	(2) m ³ /h	0,06	0,18	0,25	0,42	0,47
Pressure drop in heating mode	(2) kPa	1,40	2,00	7,30	10,0	12,0
Noise Pressure	(3) dB(A)	26	27	27	28	30
Noise Power	(4) dB(A)	35	36	36	37	39
SIZE AND WEIGHT						
i-LIFE SLIM / DLMO - DLMV						
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-LIFE SLIM / DLIU						
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

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) 50/* °C (with identical flow note1).
- 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 from 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.



i-LIFE Slim 102÷502

Technical data

i-LIFE SLIM / DLRV		0102	0202	0302	0402	0502
ELECTRICAL DATA						
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	18	27	35	35	37
2-PIPE SYSTEM CONFIGURATION						
MAX SPEED						
Air flow	m³/h	162	320	461	576	648
Total capacity in cooling mode	(1) kW	0,84	1,79	2,69	3,39	3,86
Sensible capacity in cooling mode	(1) kW	0,63	1,29	1,99	2,69	3,06
Max water flow	(1) m³/h	0,15	0,31	0,46	0,58	0,66
Max pressure drop	(1) kPa	7,4	5,5	22,6	19,1	25,0
Total capacity (heating mode)	(2) kW	1,17	2,47	3,50	4,46	5,27
Water flow in heating mode	(2) m³/h	0,15	0,31	0,46	0,58	0,67
Pressure drop in heating mode	(2) kPa	7,4	5,4	22,7	19,1	25,2
Noise Pressure	(3) dB(A)	41	42	44	45	46
Noise Power	(4) dB(A)	50	51	53	54	55
MED SPEED						
Air flow	m³/h	113	252	367	453	494
Total capacity in cooling mode	(1) kW	0,71	1,57	2,26	2,82	3,12
Sensible capacity in cooling mode	(1) kW	0,53	1,15	1,75	2,12	2,38
Max water flow	(1) m³/h	0,12	0,27	0,39	0,49	0,54
Max pressure drop	(1) kPa	5,3	4,3	16,3	13,4	15,9
Total capacity (heating mode)	(2) kW	0,95	2,12	2,93	3,72	4,29
Water flow in heating mode	(2) m³/h	0,12	0,27	0,39	0,48	0,54
Pressure drop in heating mode	(2) kPa	5,4	4,2	16,3	13,1	16,0
Noise Pressure	(3) dB(A)	35	36	36	37	40
Noise Power	(4) dB(A)	44	45	45	46	49
MIN SPEED						
Air flow	m³/h	55	155	248	370	426
Total capacity in cooling mode	(1) kW	0,37	1,07	1,47	2,42	2,73
Sensible capacity in cooling mode	(1) kW	0,27	0,76	1,21	1,82	2,09
Max water flow	(1) m³/h	0,06	0,18	0,25	0,42	0,47
Max pressure drop	(1) kPa	1,4	2,0	7,3	9,9	12,0
Total capacity (heating mode)	(2) kW	0,41	1,46	1,94	3,19	3,81
Water flow in heating mode	(2) m³/h	0,06	0,18	0,25	0,41	0,47
Pressure drop in heating mode	(2) kPa	1,4	2,1	7,3	9,8	12,1
Noise Pressure	(3) dB(A)	26	27	27	28	30
Noise Power	(4) dB(A)	35	36	36	37	39
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:

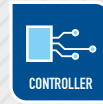
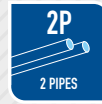
1 Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.

2 Room temperature 20 °C d.b.; Hot water (in/out) 50/° °C (with identical flow note1).

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 from 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.



MHD2 30÷60

High - Wall type terminal. 2,15 - 4,63 kW

MHD2 belongs to hi-wall fan coil range of Climaveneta. The compactness of this model and its exclusive elegance soften the visual impact and make it ideal for residential and small tertiary installations.



Version

- Base Version

Features

- Fan coil unit in ABS with high mechanical characteristics and resistance to ageing;
- Adjustable air flow direction;
- Arrangement for right-left condensate drain pipe;
- Management of all functions by remote control
- Removable panel;



Controls

Remote control

Set-point regulation. Selection of functioning mode (cool, heat, dehumidify, fan), fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics.

Accessories

- Frame kit
- Solenoid valve 2 ways 1/2"
- Solenoid valve kit 3 ways, 4 fits 1/2" with frame

Technical data

MHD2		30	40	50	60
ELECTRICAL DATA					
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	27	28	40	50
2-PIPE SYSTEM CONFIGURATION					
MAX SPEED					
Air flow	m ³ /h	436	632	780	920
Total capacity in cooling mode	(1) kW	2,15	2,67	4,00	4,63
Sensible capacity in cooling mode	(1) kW	1,82	2,13	3,02	3,56
Max water flow	(1) m ³ /h	0,37	0,46	0,69	0,80
Max pressure drop	(1) kPa	8,90	15,0	38,5	49,9
Total capacity (heating mode)	(2) kW	2,48	3,20	4,20	5,07
Water flow in heating mode	(2) m ³ /h	0,37	0,46	0,69	0,79
Pressure drop in heating mode	(2) kPa	9,0	14,9	38,5	49,7
Noise Pressure	(3) dB(A)	34	41	44	49
Noise Power	(4) dB(A)	45	52	55	60
MED SPEED					
Air flow	m ³ /h	376	522	691	810
Total capacity in cooling mode	(1) kW	1,85	2,00	3,00	3,86
Sensible capacity in cooling mode	(1) kW	1,60	1,62	2,57	2,97
Max water flow	(1) m ³ /h	0,32	0,34	0,52	0,66
Max pressure drop	(1) kPa	7,60	10,3	25,7	37,9
Total capacity (heating mode)	(2) kW	2,18	2,40	3,64	4,25
Water flow in heating mode	(2) m ³ /h	0,32	0,34	0,52	0,67
Pressure drop in heating mode	(2) kPa	7,7	10,2	26,0	38,1
Noise Pressure	(3) dB(A)	31	31	41	45
Noise Power	(4) dB(A)	42	42	52	56
MIN SPEED					
Air flow	m ³ /h	334	403	570	697
Total capacity in cooling mode	(1) kW	1,65	1,78	2,67	3,36
Sensible capacity in cooling mode	(1) kW	1,42	1,45	2,13	2,58
Max water flow	(1) m ³ /h	0,28	0,31	0,46	0,58
Max pressure drop	(1) kPa	6,80	8,80	21,9	30,7
Total capacity (heating mode)	(2) kW	1,91	2,13	3,21	3,67
Water flow in heating mode	(2) m ³ /h	0,28	0,30	0,46	0,58
Pressure drop in heating mode	(2) kPa	6,8	8,7	21,8	31,1
Noise Pressure	(3) dB(A)	27	28	37	42
Noise Power	(4) dB(A)	38	39	48	53
SIZE AND WEIGHT					
A	(5) mm	845	845	920	920
B	(5) mm	180	180	200	200
H	(5) mm	270	270	298	298
Operating weight	(5) kg	10	10	13	13

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) 50/° °C (identical flow rate note 1).

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 from 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.

a-CHD 0606÷2209

Cassette type terminal. 3,20-11,5 kW



The a-CHD cassette of Climaveneta, with 5-speed AC motor, is available in two versions: for 2-pipe installation (unit with single coil) and for 4-pipe installation (unit with double coil).

Wide range of sizes and easy installation make them suitable for all types of installations.

Controls

MTW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Room temperature probe. Remote water temperature probe.

ATW wall mounted

Mode button (OFF/summer/winter/AUTO), fan speed button (Max/Med/Min/AUTO). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2 and 4-pipe installation). Control of traditional or PWM modulating valve units.

Room temperature probe and water temperature probe. Digital input configurable as: window contact, economy, heating or cooling remote changeover, periodic ventilation. Configuration dip switch. TTL serial port with Modbus protocol for installation in BMS.

Remote control

Set-point regulation. Selection of functioning mode (cool, heat, dehumidify, fan), fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics.

Version

- U-2T** 2-pipe version
- U-4T** 4-pipe version

Features

- Frame in galvanised steel insulated with self-extinguishing closed-cell polyethylene blanket of suitable thickness, to limit heat loss and noise to a minimum. Airflow grille in ABS built in the cassette, supplied in 1 cartonbox 5-speed electric motor inclusive of thermal switch.
- Low-rev radial-blade fan to maximise acoustic comfort.
- Coil with corrugated aluminium fins and copper pipes, tested with dried air at 14 bar.
- Switchboard with power and control terminal block with screw terminals
- Set-up for fresh air intake.
- Set-up for duct air distribution.
- External drain pan.

Accessories

- Main coil 2-way/3-way valve unit
- Additional coil 2-way/3-way valve unit
- Fresh Air renewal connection
- Duct Connection Flange
- Kit Bus Adapter for BMS
- Kit Gateway interface for MyHome Bticino System

Technical data

a-CHD			0606	0706	1108	2209	0706	1108	2209
ELECTRICAL DATA									
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W		60	85	147	310	85	147	305
			2-PIPE SYSTEM CONFIGURATION				4-PIPE SYSTEM CONFIGURATION		
MAX SPEED									
Air flow	m ³ /h		575	810	1300	2250	810	1300	2250
Total capacity in cooling mode	(1) kW		3,20	4,56	6,97	11,3	3,85	5,83	7,95
Sensible capacity in cooling mode	(1) kW		2,38	3,20	5,01	8,21	2,79	4,23	5,85
Max water flow	(1) m ³ /h		0,55	0,79	1,20	1,95	0,66	1,00	1,37
Max pressure drop	(1) kPa		10,0	36,4	31,5	47,4	27,2	42,1	40,7
Total capacity (heating mode)	(2) (2)* kW		3,89	5,42	8,23	13,6	4,24	4,62	9,82
Water flow in heating mode	(2) (2)* m ³ /h		0,56	0,78	1,21	1,94	0,37	0,41	0,86
Pressure drop in heating mode	(2) (2)* kPa		7,40	34,1	27,5	44,2	12,5	14,0	27,3
Noise Pressure	(3) dB(A)		41	49	56	59	49	56	59
Noise Power	(4) dB(A)		52	60	67	70	60	67	70
MED SPEED									
Air flow	m ³ /h		290	617	960	1970	617	960	1970
Total capacity in cooling mode	(1) kW		1,90	3,60	5,47	9,55	2,87	4,61	6,83
Sensible capacity in cooling mode	(1) kW		1,34	2,50	3,91	7,37	2,07	3,33	5,00
Max water flow	(1) m ³ /h		0,33	0,62	0,94	1,64	0,49	0,79	1,18
Max pressure drop	(1) kPa		4,10	23,5	20,3	34,5	17,0	27,6	30,9
Total capacity (heating mode)	(2) (2)* kW		2,18	4,30	6,38	12,1	3,69	3,68	8,90
Water flow in heating mode	(2) (2)* m ³ /h		0,33	0,61	0,94	1,64	0,32	0,32	0,78
Pressure drop in heating mode	(2) (2)* kPa		3,30	17,5	16,5	31,6	9,40	10,5	22,0
Noise Pressure	(3) dB(A)		34	42	49	54	42	49	54
Noise Power	(4) dB(A)		45	53	60	65	53	60	65
MIN SPEED									
Air flow	m ³ /h		200	450	700	1380	450	700	1380
Total capacity in cooling mode	(1) kW		1,38	2,80	4,23	7,50	2,42	3,60	5,35
Sensible capacity in cooling mode	(1) kW		0,96	1,90	3,03	5,52	1,74	2,58	3,89
Max water flow	(1) m ³ /h		0,24	0,48	0,73	1,29	0,42	0,62	0,92
Max pressure drop	(1) kPa		2,30	14,8	12,8	21,9	13,0	17,7	19,9
Total capacity (heating mode)	(2) (2)* kW		1,56	3,28	4,90	9,06	3,27	2,90	6,80
Water flow in heating mode	(2) (2)* m ³ /h		0,24	0,48	0,73	1,29	0,29	0,25	0,60
Pressure drop in heating mode	(2) (2)* kPa		2,0	9,0	10,0	19,8	7,30	7,80	12,2
Noise Pressure	(3) dB(A)		29	32	37	44	32	37	44
Noise Power	(4) dB(A)		40	43	48	55	43	48	55
SIZE AND WEIGHT									
A	(5) mm		575	575	730	830	575	730	830
B	(5) mm		575	575	730	830	575	730	830
H	(5) mm		250	290	290	290	290	290	290
Operating weight	(5) kg		28	30	36	50	30	36	50

- 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) 50/° °C (identical flow rate note 1).
 - 2* Room temperature 20 °C d.b., hot water (in/out) 70/60 °C (identical flow rate note 1).
 - 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 from 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.



i-CHD 0706÷2209

Cassette type terminal with continuous variation of air flow and cooling power.
4,56-10,6 kW

i-CHD is the high efficiency cassette featuring advanced EC motor and centrifugal fans. Thanks to the continuous air flow modulation, extremely low energy consumption and perfect comfort are always ensured.



Version

- U-2T** 2-pipe version
- U-4T** Version for 4-pipe installations consists of the cassette i-CHD 2-pipe combined with a valve mounting 4FOR2.

Features

- High efficiency EC motor.
- Modulating speed centrifugal fan and air flow regulation.
- Energy consumption reduced by more than 50%
- Unit coils guarantee high efficiency thermal exchange with low pressure drop.
- Finned unit coils are made of copper tubes and high exchange surface area aluminium fins. Coils are always tested for leaks with dried air at 14 bar;
- Frame in galvanised steel insulated with self-extinguishing closed-cell polyethylene blanket of suitable thickness, to limit heat loss and noise to a minimum. Airflow grille in ABS built in the cassette, supplied in 1 cartonbox
- Electrical power and control switchboard, complete with electronic air flow regulator and terminal board for connection to network and available remote controls;
- Availability to have fresh air intake, distribute air flow in four directions and also in different room place thanks to air diffuser present on the unit;
- Condensate auxiliary tray standard supplied;

Accessories

- Main coil 2-way/3-way valve unit
- Kit valves 4For2
- Fresh air renewal connection
- Duct connection flange
- i-HB Power box
- Kit RS485 - interface for Building Management System

Controls

MTW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Room temperature probe. Remote water temperature probe.

ATW wall mounted

Mode button (OFF/summer/winter/AUTO), fan speed button (Max/Med/Min/AUTO). Thermostat with set point regulation.

ON/OFF valve unit

control (summer/winter for 2 and 4-pipe installation). Control of traditional or PWM modulating valve units. Room temperature probe and water temperature probe. Digital input configurable as: window contact, economy, heating or cooling remote changeover, periodic ventilation. Configuration dip switch. TTL serial port with Modbus protocol for installation in BMS.

EK plug-in control /EKW wall mounted control

User interface for selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control of main and additional coil valve unit (summer/winter - 2 and 4-pipe installation). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch.

Modbus protocol for installation in BMS (e.g. Idrorrelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE fan coil units. Easy control installation thanks to 2 wires connection.

iK control with LCD screen

Interface with LCD screen with user-friendly icons. Control kit for universal installation: wall-mounted as well as plug-in. Selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set.

Control iK could function manually or with weekly timer regulation configurable by the customer. Control of main coil valve unit (summer/winter - 2-pipe) and additional coil (winter - 4-pipe). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points (supply 230 VAC or 24V). Parameters configurable directly by user. Modbus protocol for installation in Building Management System (e.g. Idrorrelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection through HB power board

Remote control

Set-point regulation. Selection of functioning mode (cool, heat, dehumidify, fan), fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics.

Technical data

i-CHD		0706	1108	2209
ELECTRICAL DATA				
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50
Max absorbed power	W	40	88	200
2-PIPE SYSTEM CONFIGURATION				
MAX SPEED				
Air flow	m ³ /h	810	1300	2100
Total capacity in cooling mode	(1) kW	4,56	6,97	10,9
Sensible capacity in cooling mode	(1) kW	3,20	5,01	7,87
Max water flow	(1) m ³ /h	0,79	1,20	1,88
Max pressure drop	(1) kPa	36,4	31,5	44,3
Total capacity (heating mode)	(2) kW	5,42	8,23	13,0
Water flow in heating mode	(2) m ³ /h	0,78	1,21	1,88
Pressure drop in heating mode	(2) kPa	34,1	27,5	41,5
Noise Pressure	(3) dB(A)	49	56	56
Noise Power	(4) dB(A)	60	67	67
MED SPEED				
Air flow	m ³ /h	520	820	1380
Total capacity in cooling mode	(1) kW	3,10	4,82	7,69
Sensible capacity in cooling mode	(1) kW	2,20	3,43	5,52
Max water flow	(1) m ³ /h	0,53	0,83	1,32
Max pressure drop	(1) kPa	17,8	16,2	23,0
Total capacity (heating mode)	(2) kW	3,72	5,61	9,08
Water flow in heating mode	(2) m ³ /h	0,53	0,83	1,33
Pressure drop in heating mode	(2) kPa	11,8	13,1	21,0
Noise Pressure	(3) dB(A)	38	42	44
Noise Power	(4) dB(A)	49	53	55
MIN SPEED				
Air flow	m ³ /h	200	360	820
Total capacity in cooling mode	(1) kW	1,47	2,44	5,04
Sensible capacity in cooling mode	(1) kW	1,01	1,71	3,58
Max water flow	(1) m ³ /h	0,25	0,42	0,87
Max pressure drop	(1) kPa	4,50	4,70	10,4
Total capacity (heating mode)	(2) kW	1,63	2,78	5,86
Water flow in heating mode	(2) m ³ /h	0,25	0,42	0,87
Pressure drop in heating mode	(2) kPa	1,60	3,30	9,00
Noise Pressure	(3) dB(A)	29	32	34
Noise Power	(4) dB(A)	40	43	45
SIZE AND WEIGHT				
A	(5) mm	575	730	830
B	(5) mm	575	730	830
H	(5) mm	290	290	290
Operating weight	(5) kg	30	36	50

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) 50/° °C (identical flow rate note 1).
- 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 from 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.

HRD2 050÷410

High efficiency heat recovery units.
3,35-27,9 kW



The photo refers to the unit with the damper already mounted on.

The HRD2 heat recovery unit is developed for installation in commercial and tertiary sector such as offices, bars, restaurants, meeting rooms, shops, schools, gyms, and in general in all facilities where the energy cost reduction is of high importance. In modern air-conditioning and air treatment systems is necessary to create forced ventilation which involves air conditioned expelling, with high energy consumption and high costs. Thanks to its high efficiency aluminum static heat recovery system, HRD2, can solve this problem by saving more than 70% of the energy that would otherwise be lost with the expelled stale air.

The unit can be integrated with traditional systems such as fan coil units, water coolers or radiators, and can operate both in summer and in winter. The range HRD2 is recommended for suspended ceiling installation and can be ducted to allow the fresh air intake and distribution.

Version

OL	Horizontal installation, left air supply
OR	Horizontal installation, with right air supply
VL	Vertical installation, with left air supply
VR	Vertical installation, right air supply

Features

- High efficiency counterflow heat recovery with aluminium heat exchanger plates, supplementary sealing and built-in motorized by-pass device.
- Aluminium drain pan, fitted with 1/2" condensation outlet (on side for horizontal units and bottom for vertical units).
- High Efficiency >75% on dry conditions.
- All sizes are Eurovent Certified
- Plug fan direct driven EC motor with Brushless technology. Plastic fiber glass reinforced impeller for size 05 to size 10, and aluminium impeller for bigger sizes.
- Self-supporting steel structure, made of 25 mm double panels with galvanized steel material on the inside and RAL9002 painted panel on the external surface.
- Inspection doors and panels. For horizontal installations longitudinal steel brackets are supplied for ceiling installation, while for vertical installation (floor installation), galvanized steel feet are supplied as standard.
- Motorized by-pass damper for free cooling and free heating taking advantage of favorable external temperature conditions.
- Mineral wool for thermal and acoustic insulation
- Compact filters M5 efficiency class on return air, F7 efficiency class on fresh air, easy removable from bottom and side panels
- Efficiency according to EN 779:2012
- Built-in electric box with electronic controller for a complete control of all typical functions of the units

Controls

Wall mounted Control for Heat Recovery units HRD2 CR
Manual/Automatic control of EC fans. Modulating control of water valve. Electric heater control (both pre and post heating). Heat recovery defrost control. Free Cooling on/off mode control. Filter pressure switch management. Fan management by CO2 sensor. Fan management by 1 pressure sensor. Weekly programming. Alarm management. Remote summer/winter mode. EC fan motors management by fire alarm digital input. BMS by Modbus protocol and RS485 connection. Remote display with internal temperature sensor.

Accessories

- Internal electrical pre and post heater
- External section with changeover water coil
- Motorized adjusting dampers
- 3-way valve with modulating actuator
- Roof cover for vertical and horizontal units
- Air filter pressure switch
- Ducted CO2 sensor
- Air pressure sensor
- Anti-vibration junction
- Round connections

Technical data

HRD2		050	090	140	210	300	410
ELECTRICAL DATA							
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3+N/50	400/3+N/50
Overall power input Nominal	W	327	339	904	930	1841	1910
Overall power input Max	W	340	340	920	930	2000	2000
Overall current input Nominal	A	2,7	2,9	5,9	6	3,3	3,4
Overall current input Max	A	2,8	2,9	6,0	6,0	3,4	3,5
Fan speed control	V	0-10	0-10	0-10	0-10	0-10	0-10
PERFORMANCE							
Air flow rate	m ³ /h	426	776	1230	1843	2720	3685
Air flow rate	m ³ /s	0,118	0,216	0,342	0,512	0,756	1,024
External static pressure	(1) Pa	218	153	265	172	194	200
Sound Pressure on inlet side Lp (IR)	(2) dB(A)	53	52	53	60	62	60
Sound Pressure on outlet side Lp (OD)	(2) dB(A)	61	60	61	68	70	68
Efficiency of Heat recovery	(3) %	86,7	83,5	83,9	84,2	83,5	83,3
Recovery heat exchanger capacity	(3) W	3351	5878	9362	14078	20604	27847
Supply temperature	(3) °C	16,4	15,5	15,6	15,7	15,5	15,5
CONFORMITY TO (EU 1253/2014)							
Efficiency of Heat recovery	(4) %	79,2	76,1	76,5	76,6	76,1	76,0
Efficiency bonus	W/m ³ /s	366	273	285	288	273	270
Filter correction factor	-	0	0	0	0	0	0
SFP internal limit	W/m ³ /s	1548	1441	1434	1411	1360	1316
Total internal air pressure drop	(4) Pa	722	854	684	658	728	775
Overall fan static efficiency	(5) %	46,7	55,8	47,8	47,1	57,5	58,9
SFP internal	W/m ³ /s	1545	1350	1431	1396	1266	1315
SIZE AND WEIGHT							
A	(6) mm	1350	1470	1850	1850	2150	2150
B	(6) mm	680	820	1030	1460	1460	1840
H	(6) mm	330	370	455	455	590	590
Operating weight	(6) kg	85	105	175	230	290	360

Notes:

1 Fresh air/supply air circuit.

2 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 from sound power level.

3 Size valued in the following hypothesis at wet conditions: outside air temp. -7°C 80% RH; room air temperature 20°C; 55% RH

4 Size valued in the following hypothesis at dry conditions: outside air temperature 5°C; room air temperature 25°C

5 Including motor&speed controller efficiency

6 Unit in standard configuration/execution, without optional accessories.



a-HWD2 102÷902

Ducted type terminal. 6,88-24,0 kW

a-HWD2 are the ducted hydronic terminals for vertical or horizontal installation. Compact design and a wide range of accessories make these units very versatile and adaptable to any system type. The internal insulation of a-HWD2 units ensures operation with excellent acoustic comfort.



The picture is referred to the unit with mounted valves and plenum with spigots.

Controls

ATW wall mounted

Mode button (OFF/summer/winter/AUTO), fan speed button (Max/Med/Min/AUTO). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2 and 4-pipe installation). Control of traditional or PWM modulating valve units. Room temperature probe and water temperature probe. Digital input configurable as: window contact, economy, heating or cooling remote changeover, periodic ventilation. Configuration dip switch. TTL serial port with Modbus protocol for installation in BMS.

MTW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Room temperature probe. Remote water temperature probe.

PSW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). ON/OFF valve unit control (summer/winter for 2-pipe installation), ON/OFF second valve unit control (winter for 4-pipe installation). Remote water temperature probe.

Version

DFIO	built-in version, front air intake, horizontal installation
DFIV	built-in version, front air intake, vertical installation
DLIO	built-in version, low air intake, horizontal installation
DLIV	built-in version, low air intake, vertical installation.

Features

- Ducted Terminal unit for horizontal and vertical installation. Bearing structure made of thick galvanized steel sheet, resistant to rust, corrosion, chemical agents. Self-supporting and removable panels provided with holes for ceiling and wall mounting, directly from the main casing. Pre-cuts slots and prearranged holes to configure the unit upon request, to install the accessories, and to reverse the units even on - site. Discharge Flange on units.
- EU2 efficiency flat air filters, which may be easily removed from any side of the unit (bottom, side, top) for periodic cleaning. EU3 undulated air filter section, and EU5 with pocket air filter section.
- Configurations for 2- and 4-pipe systems.
- Highly efficient coil made of cooper pipes and aluminium fins.
- Standard connections on the right side; on request connections on the left side.
- Possibility to reverse the connections on-site. Coils tested at 30 Bar pressure, suitable to work with water at max. 15 Bar pressure. Incorporated additional coil, or additional coil section for 4-pipe systems.
- Incorporated electrical heater, or electrical heater sections
- Fan deck including 1, 2 or 3 centrifugal fans with double air inlet plastic blades directly coupled to the electric motor. Extensive diameter of fans for higher air flow and static pressure, with low RPM for better acoustic comfort.
- Auxiliary drain pan with thermal insulation for all Horizontal versions, made of galvanized steel.
- Plastic drain pan for all Vertical versions.
- Terminal board IP20 "Mammoth Type" installed outside the unit. Upon request possible to supply the Terminal Board inside IP55 electrical box.

Accessories

- Hot water coil kit
- Heating element module
- Main and additional coil valve unit ON/OFF, PWM, 0-10 V, 3 points 2-way or 3-way
- Ductable air filter section, flat, undulated, or with pocket bags
- Plenum kit with round, straight or 90° air ducts.
- Section with Air Louver, manual and motorized
- External/Internal mixing section
- Noise level attenuator section for both air intake and supply outlets
- Section for humidifier
- Condensate drain pump
- Anti-vibration junction
- Mammoth Type terminal board kit, with IP55 electrical box
- Interface SPB Kit

Technical data

a-HWD2		102	202	302	402	502	602	702	802	902
ELECTRICAL DATA										
Power supply	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
Max absorbed power	W	270	270	270	570	570	570	840	840	840
2-PIPE SYSTEM CONFIGURATION										
NOMINAL SPEED (ESP = 0)										
Air flow	m³/h	1450	1420	1400	2700	2650	2600	4150	4070	4000
Total capacity in cooling mode	(1) kW	6,88	7,31	9,22	11,6	12,4	16,4	17,0	20,0	24,0
Sensible capacity in cooling mode	(1) kW	6,09	6,46	6,80	10,4	11,1	12,0	14,1	16,1	18,1
Total capacity (heating mode)	(2) kW	8,61	9,13	10,8	14,5	15,5	19,5	22,6	26,6	30,0
MAX SPEED										
ESP External Static Pressure	Pa	66	59	59	76	64	61	63	56	56
Air flow	m³/h	1190	1260	1240	2000	2200	2180	3690	3660	3640
Total capacity in cooling mode	(1) kW	6,00	6,70	8,45	9,36	10,8	14,4	15,4	18,2	21,9
Sensible capacity in cooling mode	(1) kW	5,09	5,87	6,17	8,12	9,53	10,4	12,6	14,5	16,4
Max water flow	(1) m³/h	1,03	1,15	1,45	1,61	1,86	2,48	2,65	3,14	3,77
Mad pressure drop	(1) kPa	29,1	32,9	33,9	20,1	25,1	27,8	32,2	33,2	35,2
Total capacity (heating mode)	(2) kW	7,43	8,36	9,81	11,6	13,5	17,0	20,4	24,2	27,3
Water flow in heating mode	(2) m³/h	1,03	1,15	1,46	1,61	1,86	2,50	2,64	3,14	3,76
Pressure drop in heating mode	(2) kPa	29,2	32,7	34,1	20,1	25,0	28,2	32,1	33,1	35,0
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	50	51	52	53	54	55	54	54	55
Sound Power on inlet side Lw (IR)	(4) dB(A)	61	62	63	64	65	66	65	65	66
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	49	50	50	49	50	51	51	51	52
Sound Power on outlet side Lw (OD)	(4) dB(A)	60	61	61	60	61	62	62	62	63
MED SPEED										
ESP External Static Pressure	Pa	50	50	50	50	50	50	50	50	50
Air flow	m³/h	1040	1160	1145	1620	1980	1960	3220	3380	3330
Total capacity in cooling mode	(1) kW	5,66	6,35	7,96	8,17	10,0	13,4	14,2	17,5	21,0
Sensible capacity in cooling mode	(1) kW	4,74	5,38	5,78	6,94	8,69	9,57	11,5	13,9	15,6
Max water flow	(1) m³/h	0,97	1,09	1,37	1,41	1,73	2,30	2,44	3,01	3,61
Mad pressure drop	(1) kPa	25,9	29,5	30,1	15,2	21,5	24,0	27,2	30,5	32,2
Total capacity (heating mode)	(2) kW	6,95	7,87	9,22	10,0	12,4	15,8	18,5	23,0	26,0
Water flow in heating mode	(2) m³/h	0,97	1,10	1,37	1,40	1,73	2,31	2,46	2,98	3,62
Pressure drop in heating mode	(2) kPa	25,5	29,7	30,1	15,0	21,6	24,1	27,7	29,9	32,4
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	47	49	50	49	51	52	51	53	54
Sound Power on inlet side Lw (IR)	(4) dB(A)	58	60	61	60	62	63	62	64	65
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	46	47	48	46	47	48	48	50	51
Sound Power on outlet side Lw (OD)	(4) dB(A)	57	58	59	57	58	59	59	61	62
MIN SPEED										
ESP External Static Pressure	Pa	24	26	29	18	20	21	27	35	36
Air flow	m³/h	720	840	835	960	1280	1270	2400	2830	2800
Total capacity in cooling mode	(1) kW	4,36	5,25	6,54	5,52	7,34	9,82	11,4	15,3	18,6
Sensible capacity in cooling mode	(1) kW	3,57	4,35	4,65	4,49	6,11	6,83	9,05	12,0	13,6
Max water flow	(1) m³/h	0,75	0,90	1,13	0,95	1,26	1,69	1,96	2,64	3,19
Mad pressure drop	(1) kPa	15,3	20,1	20,2	6,9	11,4	12,8	17,6	23,3	25,2
Total capacity (heating mode)	(2) kW	5,27	6,39	7,44	6,67	8,94	11,3	14,6	19,9	22,6
Water flow in heating mode	(2) m³/h	0,75	0,90	1,12	0,95	1,26	1,70	1,94	2,64	3,19
Pressure drop in heating mode	(2) kPa	15,4	20,0	20,0	7,0	11,4	13,0	17,2	23,3	25,1
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	37	42	44	38	43	45	39	47	48
Sound Power on inlet side Lw (IR)	(4) dB(A)	48	53	55	49	54	56	50	58	59
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	36	40	41	33	37	41	35	43	44
Sound Power on outlet side Lw (OD)	(4) dB(A)	47	51	52	44	48	52	46	54	55
SIZE AND WEIGHT										
A-HWD2 / DLIV-DFIV										
A	(5) mm	880	880	880	1280	1280	1280	1680	1680	1680
B	(5) mm	630	630	630	630	630	630	630	630	630
H	(5) mm	275	275	275	275	275	275	275	275	275
Operating weight	(5) kg	37	38	40	52	54	57	68	70	73
A-HWD2 / DLIO-DFIO										
A	(5) mm	880	880	880	1280	1280	1280	1680	1680	1680
B	(5) mm	605	605	605	605	605	605	605	605	605
H	(5) mm	275	275	275	275	275	275	275	275	275
Operating weight	(5) kg	37	38	40	52	54	57	68	70	73

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) 50/° °C (with identical flow note1).
- 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 from 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.



a-HWD2 102÷902

Technical data

a-HWD2		104	204	404	504	704	804
ELECTRICAL DATA							
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	270	270	570	570	840	840
4-PIPE SYSTEM CONFIGURATION							
NOMINAL SPEED (ESP = 0)							
Air flow	m³/h	1410	1380	2620	2570	4030	3950
Total capacity in cooling mode	(1) kW	6,74	7,15	11,4	12,1	16,6	19,6
Sensible capacity in cooling mode	(1) kW	5,94	6,31	10,2	10,8	13,8	15,7
Total capacity (heating mode)	(2) kW	6,87	6,87	12,0	11,6	17,9	17,7
MAX SPEED							
ESP External Static Pressure	Pa	66	59	76	64	63	56
Air flow	m³/h	1150	1220	1940	2130	3620	3610
Total capacity in cooling mode	(1) kW	5,87	6,56	9,15	10,6	15,2	18,1
Sensible capacity in cooling mode	(1) kW	4,96	5,73	7,92	9,30	12,5	14,4
Max water flow	(1) m³/h	1,01	1,13	1,58	1,82	2,61	3,11
Max pressure drop	(1) kPa	27,8	31,5	19,2	24,0	31,3	32,5
Total capacity (heating mode)	(2) kW	5,89	6,40	9,53	10,6	16,3	16,3
Water flow in heating mode	(2) m³/h	0,52	0,56	0,84	0,93	1,42	1,42
Pressure drop in heating mode	(2) kPa	13,5	15,8	15,6	19,0	42,9	42,9
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	50	51	53	54	54	54
Sound Power on inlet side Lw (IR)	(4) dB(A)	61	62	64	65	65	65
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	49	50	49	50	51	0
Sound Power on outlet side Lw (OD)	(4) dB(A)	60	61	60	61	62	0
MED SPEED							
ESP External Static Pressure	Pa	50	50	50	50	50	50
Air flow	m³/h	1010	1130	1570	1920	3130	3280
Total capacity in cooling mode	(1) kW	5,53	6,21	7,99	9,80	13,8	17,1
Sensible capacity in cooling mode	(1) kW	4,63	5,25	6,77	8,48	11,3	13,5
Max water flow	(1) m³/h	0,95	1,07	1,38	1,69	2,38	2,95
Max pressure drop	(1) kPa	24,7	28,2	14,6	20,6	26,0	29,2
Total capacity (heating mode)	(2) kW	5,31	6,00	8,13	9,64	14,8	15,4
Water flow in heating mode	(2) m³/h	0,47	0,53	0,71	0,85	1,29	1,35
Pressure drop in heating mode	(2) kPa	11,1	14,0	11,5	15,9	35,9	38,6
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	47	49	49	51	51	53
Sound Power on inlet side Lw (IR)	(4) dB(A)	58	60	60	62	62	64
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	46	47	46	47	48	0
Sound Power on outlet side Lw (OD)	(4) dB(A)	57	58	57	58	59	0
MIN SPEED							
ESP External Static Pressure	Pa	24	26	18	20	27	35
Air flow	m³/h	700	810	930	1240	2330	2750
Total capacity in cooling mode	(1) kW	4,27	5,13	5,40	7,18	11,1	15,0
Sensible capacity in cooling mode	(1) kW	3,48	4,25	4,38	5,96	8,83	11,7
Max water flow	(1) m³/h	0,74	0,88	0,93	1,24	1,92	2,58
Max pressure drop	(1) kPa	14,6	19,2	6,6	10,9	16,8	22,3
Total capacity (heating mode)	(2) kW	4,05	4,71	5,48	6,85	11,8	13,4
Water flow in heating mode	(2) m³/h	0,36	0,41	0,48	0,60	1,03	1,17
Pressure drop in heating mode	(2) kPa	6,70	8,90	5,40	8,30	23,5	29,8
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	37	42	38	43	39	47
Sound Power on inlet side Lw (IR)	(4) dB(A)	48	53	49	54	50	58
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	36	40	33	37	35	0
Sound Power on outlet side Lw (OD)	(4) dB(A)	47	51	44	48	46	0
SIZE AND WEIGHT							
A-HWD2 / DLIV-DFIV							
A	(5) mm	880	880	1280	1280	1680	1680
B	(5) mm	630	630	630	630	630	630
H	(5) mm	275	275	275	275	275	275
Operating weight	(5) kg	39	40	55	57	72	74
A-HWD2 / DLIO-DFIO							
A	(5) mm	880	880	1280	1280	1680	1680
B	(5) mm	605	605	605	605	605	605
H	(5) mm	275	275	275	275	275	275
Operating weight	(5) kg	39	40	55	57	72	74

Notes:

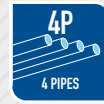
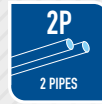
1 Room temperature 27 °C d.b./19°C w.b., Chilled water (in/out) 7/12 °C.

2 Room temperature 20 °C d.b., hot water (in/out) 70/60 °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 from 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.



i-HWD2 102÷902

Ducted High Head Hydronic Terminal with EC Brushless motor for continuous regulation of fan speed and air flow.



The picture is referred to the unit with mounted valves and plenum with spigots.

The new high head ducted units i-HWD2, are equipped with an EC Brushless motor fan of new generation with continuous modulation of the air flow, which ensures better comfort and real energy savings. The possibility of vertical and / or horizontal installation, the small dimensions and the wide range of accessories for the canalization, make these units very flexible in

installation and adaptable to any type of system. Thanks to the brushless motor and the internal insulation the i-HWD2 guarantee an operation with high levels of acoustic comfort.

Controls

ATW-EC Wall Control

User interface for selection of functioning mode (Off/Summer/Winter/Auto), fan speed (Max, Med, Min, Auto), and temperature set. Control of main and additional coil valve unit. (summer/winter 2 and 4-pipe installation). Management of traditional ON/OFF valve unit. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch. The controls can be connected to BMS system.

Remote Control EKW

User interface for selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control of main and additional coil valve unit (summer/winter - 2 and 4-pipe installation). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points. Air and water temperature probe. Multifunction digital input configurable by user. Configuration dip switch. Modbus protocol for installation in BMS (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8

LIFE2 fan coil units. Easy control installation thanks to 2 wires connection.

iK control with LCD screen

Interface with LCD screen with user-friendly icons. Control kit for universal installation: wall-mounted as well as plug-in. Selection of functioning mode (OFF/summer/winter/AUTO), fan speed (Max/Med/Min/AUTO), temperature set. Control iK could function manually or with weekly timer regulation configurable by the customer. Control of main coil valve unit (summer/winter - 2-pipe) and additional coil (winter - 4-pipe). Management of traditional ON/OFF valve unit or modulating valve unit 0-10V or 3 points (supply 230 VAC or 24V). Parameters configurable directly by user. Modbus protocol for installation in Building Management System (e.g. Idrorelax system by Climaveneta). Installation and management of Master-Slave system up to 8 LIFE2 fan coil units. Easy control installation thanks to 2 wires connection through HB power board.

Version

DFIO	built-in version, front air intake, horizontal installation
DFIV	built-in version, front air intake, vertical installation
DLIO	built-in version, low air intake, horizontal installation
DLIV	built-in version, low air intake, vertical installation

Features

- Ducted Terminal unit for horizontal and vertical installation.
- Bearing structure made of thick galvanized steel sheet, resistant to rust, corrosion, chemical agents.
- Self-supporting and removable panels provided with holes for ceiling and wall mounting, directly from the main casing. Pre-cuts slots and prearranged holes to configure the unit upon request, to install the accessories, and to reverse the units even on - site.
- Discharge Flange on units.
- High pressure centrifugal fan unit for ducted system;
- High efficiency EC motor.
- Modulating speed centrifugal fan and air flow regulation.
- Energy consumption reduced by more than 50%
- Highly efficient coil made of cooper pipes and aluminium fins
- Standard connections on the right side; on request connections on the left side.
- Possibility to reverse the connections on-site.
- Coils tested at 30 Bar pressure, suitable to work with water at max. 15 Bar pressure.
- Incorporated additional coil, or additional coil section for 4-pipe systems.
- EU2 efficiency flat air filters, which may be easily removed from any side of the unit (bottom, side, top) for periodic cleaning. EU3 undulated air filter section, and EU5 with pocket air filter section.
- Incorporated electrical heater, or electrical heater sections
- Auxiliary drain pan with thermal insulation for all Horizontal versions, made of galvanized steel.
- Configurations for 2 and 4-pipe Systems.

Accessories

- Hot water coil kit
- Heating element module
- Main coil 2-way/3-way valve unit
- Additional coil 2-way/3-way valve unit
- Ductable air filter section, flat, undulated, or with pocket bags
- Plenum kit with round, straight or 90° air ducts.
- Section with Air Louver, manual and motorized
- Noise level attenuator section for both air intake and supply outlets
- Section for humidifier
- Interface SPB Kit
- i-HB Power box
- Kit control board to manage 0-10V or 3 points modulating valve unit
- Kit RS485 - interface for Building Management System
- Kit Gateway interface for MyHome Bticino System
- Auxiliary condensate collecting tray

Technical data

i-HWD2		102	202	302	402	502	602	702	802	902
ELECTRICAL DATA										
Power supply	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
Max absorbed power	W	170	170	170	320	320	320	500	500	500
2-PIPE SYSTEM CONFIGURATION										
MAX SPEED										
ESP External Static Pressure	Pa	41	46	45	37	45	45	46	46	46
Air flow	m ³ /h	1267	1314	1284	2148	2342	2299	3829	3746	3710
Total capacity in cooling mode	(1) kW	6,25	6,91	8,66	9,86	11,3	15,0	15,9	18,6	22,3
Sensible capacity in cooling mode	(1) kW	5,44	6,07	6,34	8,64	10,0	10,8	13,1	14,9	16,7
Max water flow	(1) m ³ /h	1,08	1,19	1,49	1,70	1,95	2,57	2,73	3,20	3,84
Max pressure drop	(1) kPa	31,6	35,1	35,7	22,3	27,6	30,2	34,4	34,6	36,6
Total capacity (heating mode)	(2) kW	8,44	9,34	10,9	13,3	15,3	19,2	22,8	26,8	30,2
Water flow in heating mode	(2) m ³ /h	1,08	1,19	1,49	1,70	1,95	2,57	2,73	3,20	3,84
Pressure drop in heating mode	(2) kPa	31,6	35,1	35,7	22,3	27,6	30,2	34,4	34,6	36,6
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	52	51	52	54	54	55	54	54	55
Sound Power on inlet side Lw (IR)	(4) dB(A)	63	62	63	65	65	66	65	65	66
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	51	50	50	50	50	51	51	51	52
Sound Power on outlet side Lw (OD)	(4) dB(A)	62	61	61	61	61	62	62	62	63
MED SPEED										
ESP External Static Pressure	Pa	29	38	39	24	34	35	35	39	40
Air flow	m ³ /h	1070	1204	1188	1735	2044	2023	3336	3474	3427
Total capacity in cooling mode	(1) kW	5,73	6,51	8,18	8,53	10,2	13,7	14,5	17,7	21,3
Sensible capacity in cooling mode	(1) kW	4,81	5,60	5,96	7,30	8,93	9,80	11,9	14,1	15,9
Max water flow	(1) m ³ /h	0,99	1,12	1,41	1,47	1,76	2,35	2,50	3,05	3,66
Max pressure drop	(1) kPa	26,5	31,0	31,8	16,7	22,6	25,1	28,6	31,4	33,2
Total capacity (heating mode)	(2) kW	7,64	8,76	10,3	11,4	13,8	17,5	20,7	25,4	28,6
Water flow in heating mode	(2) m ³ /h	0,99	1,12	1,41	1,47	1,76	2,35	2,50	3,05	3,66
Pressure drop in heating mode	(2) kPa	26,5	31,0	31,8	16,7	22,6	25,1	28,6	31,4	33,2
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	48	50	51	50	52	53	52	53	54
Sound Power on inlet side Lw (IR)	(4) dB(A)	59	61	62	61	63	64	63	64	65
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	47	48	49	47	48	49	49	50	51
Sound Power on outlet side Lw (OD)	(4) dB(A)	58	59	60	58	59	60	60	61	62
MIN SPEED										
ESP External Static Pressure	Pa	14	19	20	8	14	14	19	27	27
Air flow	m ³ /h	733	851	849	983	1294	1284	2473	2885	2854
Total capacity in cooling mode	(1) kW	4,41	5,30	6,60	5,61	7,40	9,89	11,6	15,5	18,8
Sensible capacity in cooling mode	(1) kW	3,62	4,39	4,70	4,57	6,17	6,89	9,27	12,1	13,8
Max water flow	(1) m ³ /h	0,76	0,91	1,14	0,97	1,27	1,70	2,00	2,67	3,24
Max pressure drop	(1) kPa	15,7	20,5	20,6	7,2	11,6	13,0	18,4	24,0	25,9
Total capacity (heating mode)	(2) kW	5,79	6,99	8,14	7,35	9,77	12,3	16,3	21,9	24,9
Water flow in heating mode	(2) m ³ /h	0,76	0,91	1,14	0,97	1,27	1,70	2,00	2,67	3,24
Pressure drop in heating mode	(2) kPa	15,7	20,5	20,6	7,2	11,6	13,0	18,4	24,0	25,9
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	38	42	44	39	43	45	40	48	49
Sound Power on inlet side Lw (IR)	(4) dB(A)	49	53	55	50	54	56	51	59	60
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	37	40	41	34	37	41	36	44	45
Sound Power on outlet side Lw (OD)	(4) dB(A)	48	51	52	45	48	52	47	55	56
SIZE AND WEIGHT										
A-HWD2 / DLIV-DFIV										
A	(5) mm	880	880	880	1280	1280	1280	1680	1680	1680
B	(5) mm	630	630	630	630	630	630	630	630	630
H	(5) mm	275	275	275	275	275	275	275	275	275
Operating weight	(5) kg	37	38	40	52	54	57	68	70	73
A-HWD2 / DLIO-DFIO										
A	(5) mm	880	880	880	1280	1280	1280	1680	1680	1680
B	(5) mm	605	605	605	605	605	605	605	605	605
H	(5) mm	275	275	275	275	275	275	275	275	275
Operating weight	(5) kg	37	38	40	52	54	57	68	70	73

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) 50/* °C (with identical flow note1).

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 from 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.



i-HWD2 102÷902

Technical data

i-HWD2		104	204	404	504	704	804
ELECTRICAL DATA							
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbed power	W	170	170	320	320	500	500
4-PIPE SYSTEM CONFIGURATION							
MAX SPEED							
ESP External Static Pressure	Pa	49	46	37	45	46	46
Air flow	m ³ /h	1379	1314	2148	2342	3829	3746
Total capacity in cooling mode	(1) kW	6,63	6,91	9,87	11,3	15,9	18,7
Sensible capacity in cooling mode	(1) kW	5,84	6,07	8,68	10,0	13,1	14,9
Max water flow	(1) m ³ /h	1,14	1,19	1,70	1,95	2,74	3,21
Max pressure drop	(1) kPa	35,6	35,1	22,3	27,6	34,6	34,8
Total capacity (heating mode)	(2) kW	6,76	6,68	10,3	11,1	17,1	16,8
Water flow in heating mode	(2) m ³ /h	0,59	0,59	0,90	0,97	1,50	1,47
Pressure drop in heating mode	(2) kPa	17,5	17,1	18,0	20,8	47,2	45,8
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	52	51	54	54	54	54
Sound Power on inlet side Lw (IR)	(4) dB(A)	63	62	65	65	65	65
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	51	50	50	50	51	0
Sound Power on outlet side Lw (OD)	(4) dB(A)	62	61	61	61	62	0
MED SPEED							
ESP External Static Pressure	Pa	41	38	24	34	35	39
Air flow	m ³ /h	1267	1204	1735	2044	3336	3474
Total capacity in cooling mode	(1) kW	6,25	6,50	8,51	10,3	14,5	17,7
Sensible capacity in cooling mode	(1) kW	5,47	5,65	7,28	8,96	11,8	14,0
Max water flow	(1) m ³ /h	1,08	1,12	1,46	1,77	2,49	3,04
Max pressure drop	(1) kPa	31,6	31,0	16,6	22,6	28,6	31,1
Total capacity (heating mode)	(2) kW	6,35	6,33	8,75	10,2	15,5	15,9
Water flow in heating mode	(2) m ³ /h	0,56	0,55	0,77	0,89	1,36	1,39
Pressure drop in heating mode	(2) kPa	15,6	15,5	13,3	17,7	39,2	41,1
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	52	50	50	52	52	53
Sound Power on inlet side Lw (IR)	(4) dB(A)	63	61	61	63	63	64
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	51	48	47	48	49	0
Sound Power on outlet side Lw (OD)	(4) dB(A)	62	59	58	59	60	0
MIN SPEED							
ESP External Static Pressure	Pa	19	19	8	14	19	27
Air flow	m ³ /h	863	851	983	1294	2473	2885
Total capacity in cooling mode	(1) kW	4,98	5,30	5,61	7,42	11,6	15,5
Sensible capacity in cooling mode	(1) kW	4,13	4,40	4,57	6,18	9,28	12,1
Max water flow	(1) m ³ /h	0,86	0,91	0,97	1,28	2,00	2,67
Max pressure drop	(1) kPa	20,0	20,5	7,2	11,7	18,4	24,0
Total capacity (heating mode)	(2) kW	4,76	4,87	5,71	7,07	12,3	13,9
Water flow in heating mode	(2) m ³ /h	0,42	0,43	0,50	0,62	1,08	1,21
Pressure drop in heating mode	(2) kPa	9,0	9,5	5,9	8,8	25,7	32,0
Sound Pressure on inlet side Lp (IR)	(3) dB(A)	43	42	38	43	40	48
Sound Power on inlet side Lw (IR)	(4) dB(A)	54	53	49	54	51	59
Sound Pressure on outlet side Lp (OD)	(3) dB(A)	42	40	34	37	36	0
Sound Power on outlet side Lw (OD)	(4) dB(A)	53	51	45	48	47	0
SIZE AND WEIGHT							
A-HWD2 / DLIV-DFIV							
A	(5) mm	880	880	1280	1280	1680	1680
B	(5) mm	630	630	630	630	630	630
H	(5) mm	275	275	275	275	275	275
Operating weight	(5) kg	39	40	55	57	72	74
A-HWD2 / DLIO-DFIO							
A	(5) mm	880	880	1280	1280	1680	1680
B	(5) mm	605	605	605	605	605	605
H	(5) mm	275	275	275	275	275	275
Operating weight	(5) kg	39	40	55	57	72	74

Notes:

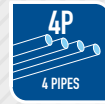
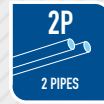
1 Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.

2 Room temperature 20 °C d.b.; Hot water (in/out) 70/60 °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 from 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.



Controls

A wide range of wall-mounted and built-in controllers that allow for a user-friendly and complete regulation of all functions and an easy integration with home automation, centralisation and Building Management Systems.

Units

- a-LIFE2 / i-LIFE2
- a-LIFE2 HP/ i-LIFE2 HP
- a-CHD / i-CHD
- a-HWD2 / i-HWD2



Infrared Remote Control

Set-point regulation. Easy selection of the functioning mode (cooling, heating, dehumidification, ventilation), and the fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics. The receiver must be connected to i-HB Power Board that must be mounted on board of the unit.



AT plug-in ATW a parete

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. Configuration dip switch.



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



EK plug-in EKW wall mounted

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), serial connection for mini-network and integration into BMS or Idrorelax systems.



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 energysaving brushless fan motor, serial connection for mininetwork and integration into BMS or Idrorelax systems

Notes:
Refer to the dedicated product pages for more information about compatibility between the controllers and the single fan coil unit.
The iK, EK, EKW controllers installed with a-LIFE2 and a-LIFE2 HP have to be combined with the 'HB LIFE' power board (cod. 7349051500).

Functions						
	PS/PSW	MT/MTW	AT/ATW	EK/EKW	IK	Infrared
Air management (3 speed)	✓	✓	✓	✓	✓	✓
Led for the ventilation speed	n.a.	n.a.	✓	✓	✓	✓
Auto mode	n.a.	n.a.	✓	✓	✓	✓
Temperature regulation	n.a.	✓	✓	✓	✓	✓
Operating mode (Summer/Winter)	✓	✓	✓	✓	✓	✓
Operating mode (Auto)	n.a.	n.a.	✓	✓	✓	✓
On/Off operation	✓	✓	✓	✓	✓	✓
Led for functions	n.a.	✓	✓	✓	✓	✓
Hot start function >32°C	✓	✓	✓	✓	✓	✓
Too Cool function < 18°C	n.a.	n.a.	✓	✓	✓	✓
Periodic ventilation (Air destratification)	n.a.	✓	✓	✓	✓	✓
BMS connection	n.a.	n.a.	✓	✓	✓	✓
Connection with My Home BTicino	n.a.	n.a.	✓	✓	✓	✓
Digital input	n.a.	n.a.	✓	✓	✓	✓
Window contact	n.a.	n.a.	✓	✓	✓	✓
Economy	n.a.	n.a.	✓	✓	✓	✓
Configuration deep switch	n.a.	n.a.	✓	✓	✓	✓
On-off valve management	✓	✓	✓	✓	✓	✓
Management of 0-10V modulating valve or 3 points valve	n.a.	n.a.	n.a.	✓	✓	✓
Integration with Master/Slave	n.a.	✓	✓	✓	✓	✓
LCD screen	n.a.	n.a.	n.a.	n.a.	✓	✓
Weekly timer setting	n.a.	n.a.	n.a.	n.a.	✓	n.a.
SLEEP function	n.a.	n.a.	n.a.	n.a.	✓	n.a.
Hourly timer setting	n.a.	n.a.	n.a.	n.a.	n.a.	✓

Multiple connections hydronic terminals							
MODEL	SIZE	PS-PSW (1)	MT-MTW (1)	AT-ATW (1)	SPB (2)	SPB (3)	Input *
a-LIFE2	10	8	8	3	15	9	0,2
	20	8	8	3	15	9	0,2
	30	6	6	2	15	9	0,3
	40	6	6	2	15	5	0,3
	50	6	6	2	15	4	0,3
	60	6	6	2	15	4	0,3
	70	3	3	1	15	3	0,6
	80	3	3	1	15	2	0,6
	90	3	3	1	15	2	0,73
	100	3	3	1	15	2	0,73
i-LIFE2	20	-	-	-	-	-	0,5
	40	-	-	-	-	-	0,5
	60	-	-	-	-	-	0,6
	80	-	-	-	-	-	0,6
	100	-	-	-	-	-	0,6
a-LIFE2 HP	30	5	5	2	15	3	0,42
	40	5	5	2	15	3	0,42
	50	5	5	2	15	2	0,49
	60	5	5	2	15	2	0,49
	70	2	2	1	15	2	0,85
	80	2	2	1	15	2	0,85
	90	2	2	1	15	2	1
	100	3	3	1	15	2	1
	110	1	1	0	15	2	1,3
	120	1	1	0	15	2	1,3
a-CHD	606	-	20	15	-	-	0,22
	706	-	20	15	-	-	0,37
	1108	-	20	15	-	-	0,64
	2209	-	20	15	-	-	1,35
i-CHD	706	-	20	15	-	-	0,34
	1108	-	20	15	-	-	0,76
	2209	-	20	15	-	-	1,74
a-HWD2	100	0	0	0	15	1	1,25
	200	0	0	0	15	1	1,25
	300	0	0	0	15	1	1,25
	400	0	0	0	0	0	2,7
	500	0	0	0	0	0	2,7
	600	0	0	0	0	0	2,7
	700	0	0	0	0	0	3,9
	800	0	0	0	0	0	3,9
	900	0	0	0	0	0	3,9

For connecting the controllers to the units, refer to the instructions of each controller.

Notes:

- (1) Maximum number of units of the same model that can be connected to a single controller
 (2) Maximum number of units of different models and sizes that can be connected to a single controller (installing a SPB kit in each unit)
 (3) Maximum number of units of the same size and model that can be connected to a controller (installing a single SPB kit)
 (*) Current consumption of each unit in (A)

Controls

Precise regulation of all parameters, advanced management system with PID logic and user-friendly layout: i-LIFE Slim controllers and thermostats are the perfect solution to keep efficiency levels high and sound levels always under control.

Units

i-LIFE Slim



iKS2
On-board control for units with cabinet, featuring 8 touch keys and LCD display with white light symbols.



ATS2
On-board controller for units with cabinet. Interface with 4 keys for temperature selection.



iKSW2+ iHBS2
Remote controller for built-in and with cabinet units complete with keypad with 8 touch keys, LCD display with white light symbols.

iHBS control board
Simple control board for built-in and with cabinet units to be coupled with remote controller iKSW. iHBS features an ON/OFF touch button and a LED for the visualization of the device's operation. All the parameters are set from the iKSW.



ATW + HBS2
Room thermostat for built-in and with cabinet units. The ATW control must be coupled with the HBS power board.

Functions	ATS2	iKS2	ATW + HBS2	iKSW2+ iHBS2
Modulating fan speed management (PID)	n.a.	✓	n.a.	✓
Temperature regulation	✓	✓	✓	✓
Winter / Summer mode	✓	✓	✓	✓
AUTO mode (automatic mode for speed regulation)	✓	✓	✓	✓
Night mode for a silent operation	✓	✓	n.a.	✓
Minimum water temperature probe	✓	✓	✓	✓
LCD display	✓	✓	n.a.	✓

Supervision and control device

IDRORELAX is a centralized device for supervision and control of plants, integrating together Climaveneta hydronic terminals and units. Up to 224 elements can be connected, centralizing their management in one single point. The touch screen interface has been conceived to ensure a smart management of all the main functions of the units through a quick and easy navigation of the menu. The IDRORELAX control panel is available both wall-mounted and as simple panel, for the highest usage flexibility.

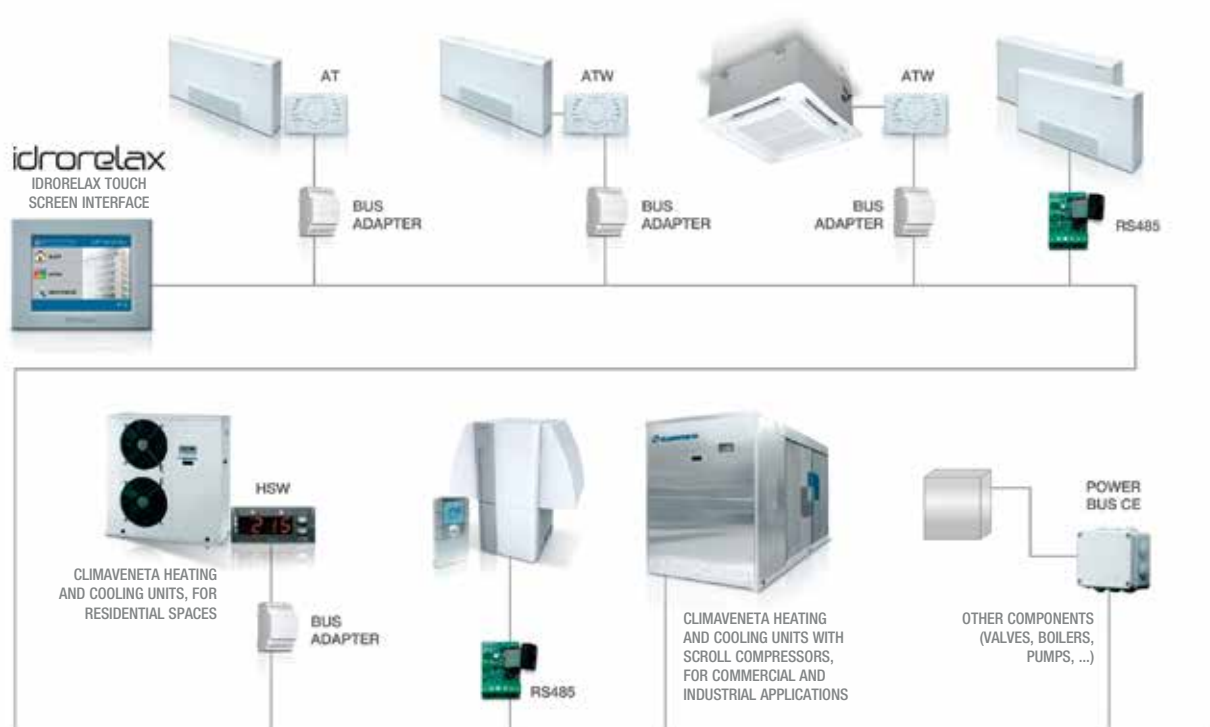
Version

IDRORELAX

PANEL	Panel installation
WALL	Wall installation

Features

- Touch Screen interface, with TFT colour display, 5,7"
- Centralized management of the whole hydronic plant: terminals and units
- Integrated visualization of operating mode and temperatures, both for units and internal ambients
- Centralized optimization of the internal comfort: settings of the terminals operation based on daily or weekly schedule, area and crowding



The diagram is purely representative. Refer to the available IDRORELAX technical documentation for more information about compatibility between the system and the components.



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