

mitsubishi electric
HYDRONICS & IT COOLING SYSTEMS S.p.A.

COMFORT

HYDRONIC TERMINALS

FAN COIL RANGE

FOR PROFESSIONAL APPLICATIONS

A NEW WAY OF LIVING COMFORT



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 Mitsubishi Electric Commercial Department.

Climaveneta branded hydronic terminals have been designed taking your wellbeing in mind. Each single product achieves the best comfort standards together with high efficiency levels.

FAN COIL RANGE

FOR PROFESSIONAL APPLICATIONS

a-LIFE3 i-LIFE3

4/5

Fan-coil for professional applications, with cabinet or built-in version.

a-LIFE2 HP i-LIFE2 HP

10/11

High head built-in version fan coil unit for professional applications.

a-HWD2 i-HWD2

16/17

High head ducted type terminal.

CONTROLLERS

22/23

a-LIFE3

i-LIFE3



**Fan-coil for professional applications,
with cabinet or built-in version**



LIFE3 is the new range of fancoils for professional and commercial applications.

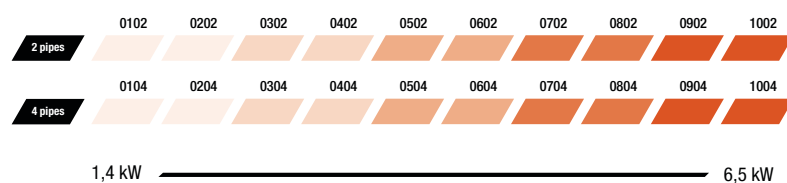
Thanks to a stylish and clean design, LIFE3 fits any kind of ambient and application, even those sensible to aesthetics.



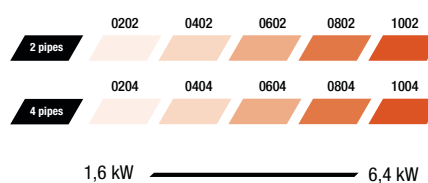
THE RANGE

The units are available for installation in 2 or 4-pipe systems and in five sizes to meet any kind of installation requirement.

a-LIFE3 Fan-coil unit with AC fan



i-LIFE3 Fan-coil unit with EC fan



DIMENSIONS

Size A Size B Size C Size D Size E

Total cooling capacity at maximum speed: 12/7 °C inlet/outlet water temperature;
27 °C (19 °C) Air temperature [inlet dry bulb (inlet wet bulb)]

Uncompromising comfort, efficiency and design

i-LIFE3 CONTINUOUS CAPACITY MODULATION FOR THE HIGHEST EFFICIENCY

EC FAN

REAL SAVINGS

The EC motor technology allows continuous, stepless airflow and capacity modulation so that the unit can easily follow any variation in the thermal load.

The extreme efficiency offers a reduction in energy use: up to 50% in comparison to a traditional AC fan. EC fan coil units are key in cutting the yearly energy consumption and related cost of buildings.



VERY SILENT OPERATION

Designed for the maximum acoustic comfort, the unit operates always at the lowest fan speed to keep the temperature set-point stable and ensure low noise emissions.



ELEGANT AND STYLISH DESIGN

LIFE3 is an advanced professional solution to meet the requirements of modern contemporary residential and commercial architecture.

The clean and stylish design perfectly fits in any ambient, adding refined aesthetics to any interior environment.

QUICK AND EASY INSTALLATION

A vast array of already mounted options together with the smart unit design ensures a quick installation as well as easy maintenance operations.

The units can be equipped with several options to be easily adapted to the most different applications:

- ▶ On/Off 2-way valves
- ▶ On/Off 3-way valves
- ▶ Modulating valves (PWM, 3 Points, 0-10V)
- ▶ Electric heater

ACTIVE CARBON FILTER

a-LIFE3 and i-LIFE3 have been designed for better air quality. The optional Active Carbon filter is based on the capacity of activated carbon to adsorb, through its porosity, most of the organic compounds responsible for unpleasant odours.

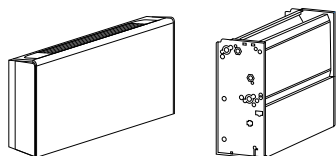


COMPLETELY RELIABLE OPERATION

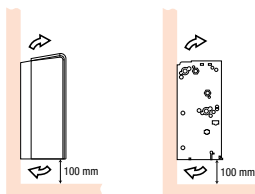
All components used in the LIFE3 range are in line with the high quality standards of Mitsubishi Electric Hydronics and IT Cooling Systems.

INSTALLATION

Low air intake



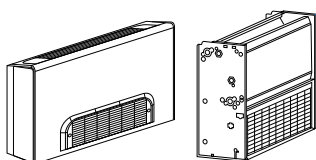
Vertical



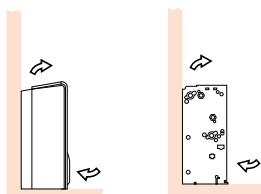
Horizontal



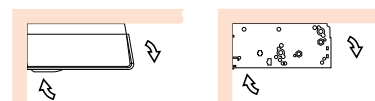
Front air intake



Vertical



Horizontal





4-PIPE SYSTEM CONFIGURATION

a-LIFE3		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
2 PIPES SYSTEM CONFIGURATION											
ENERGY EFFICIENCY											
COOLING (EN14511 VALUE)											
FCEER	(1)(6) kW/kW	34	41	42	50	64	74	52	57	50	54
FCEER Class		E	E	E	E	D	D	E	D	E	E
HEATING ONLY (EN14511 VALUE)											
FCCOP	(2)(6) kW/kW	44	45	49	51	69	73	49	51	49	50
FCCOP Class		E	E	E	E	E	D	E	E	E	E
PERFORMANCE											
MIN SPEED											
Fan Power Input	(1) W	20,0	20,0	25,0	25,0	26,0	26,0	48,0	48,0	61,0	61,0
Air flow rate	(1) m ³ /h	186	197	239	252	346	365	477	504	537	567
Total capacity in cooling mode	(1) kW	0,73	0,86	1,20	1,42	1,93	2,23	2,95	3,21	3,43	3,69
Total Net Cooling Capacity	(1)(6)(7) kW	0,71	0,84	1,18	1,40	1,90	2,21	2,90	3,16	3,37	3,63
Sensible capacity in cooling mode	(1) kW	0,62	0,69	1,02	1,14	1,46	1,65	2,44	2,58	2,70	2,96
Net sensible cooling capacity	(1)(6)(7) kW	0,60	0,67	1,00	1,12	1,43	1,62	2,39	2,53	2,64	2,90
Net latent power in cooling	(1)(6)(7) kW	0,11	0,17	0,18	0,28	0,47	0,58	0,51	0,63	0,73	0,73
Water flow in cooling mode	(1) l/s	0,03	0,04	0,06	0,07	0,09	0,11	0,14	0,15	0,16	0,18
Pressure Drop in cooling mode	(1) kPa	0,5	4,6	1,6	8,4	4,0	4,7	10,7	7,3	15,0	12,2
Total capacity (heating mode)	(2) kW	0,93	0,97	1,35	1,41	2,01	2,13	2,64	2,76	3,18	3,29
Total Net Heating Capacity	(2)(6) kW	0,95	0,99	1,37	1,43	2,04	2,16	2,69	2,81	3,24	3,35
Water flow in heating mode	(2) l/s	0,02	0,02	0,03	0,03	0,05	0,05	0,06	0,07	0,08	0,08
Pressure drop in heating mode	(2) kPa	4,1	4,4	5,1	5,5	9,2	10,1	3,9	4,2	4,9	5,2
Sound Pressure	(3) dB(A)	29	29	33	33	33	33	39	39	39	39
Sound Power	(4)(7) dB(A)	38	38	42	42	42	42	48	48	48	48
MED SPEED											
Fan Power Input	(1) W	31,0	31,0	43,0	43,0	46,0	46,0	86,0	86,0	105	105
Air flow rate	(1) m ³ /h	261	276	365	385	509	538	720	760	851	899
Total capacity in cooling mode	(1) kW	1,11	1,31	1,69	2,03	2,69	3,10	4,03	4,49	5,02	5,37
Total Net Cooling Capacity	(1)(6)(7) kW	1,08	1,28	1,65	1,99	2,65	3,06	3,95	4,41	4,92	5,27
Sensible capacity in cooling mode	(1) kW	0,96	1,06	1,49	1,65	2,10	2,42	3,37	3,72	4,21	4,43
Net sensible cooling capacity	(1)(6)(7) kW	0,93	1,03	1,45	1,61	2,05	2,37	3,28	3,63	4,11	4,32
Net latent power in cooling	(1)(6)(7) kW	0,15	0,25	0,20	0,38	0,59	0,68	0,66	0,77	0,81	0,94
Water flow in cooling mode	(1) l/s	0,05	0,06	0,08	0,10	0,13	0,15	0,19	0,21	0,24	0,26
Pressure Drop in cooling mode	(1) kPa	0,9	9,7	2,9	14,7	7,2	8,5	18,5	13,2	29,2	24,2
Total capacity (heating mode)	(2) kW	1,21	1,24	1,85	1,93	2,70	2,86	3,59	3,75	4,50	4,66
Total Net Heating Capacity	(2)(6) kW	1,24	1,27	1,89	1,97	2,75	2,90	3,68	3,84	4,61	4,76
Water flow in heating mode	(2) l/s	0,03	0,03	0,04	0,05	0,07	0,07	0,09	0,09	0,11	0,11
Pressure drop in heating mode	(2) kPa	6,3	6,5	8,6	9,3	15,0	16,4	6,5	7,0	8,8	9,3
Sound Pressure	(3) dB(A)	38	39	42	43	41	41	47	47	49	50
Sound Power	(4)(7) dB(A)	47	48	51	52	50	50	56	56	58	59
MAX SPEED											
Fan Power Input	(1) W	49,0	49,0	66,0	66,0	71,0	71,0	130	130	146	146
Air flow rate	(1) m ³ /h	368	389	472	498	676	713	966	1019	1104	1166
Total capacity in cooling mode	(1) kW	1,41	1,65	2,11	2,48	3,27	3,77	4,78	5,33	5,97	6,45
Total Net Cooling Capacity	(1)(6)(7) kW	1,36	1,60	2,04	2,42	3,20	3,70	4,65	5,20	5,83	6,31
Sensible capacity in cooling mode	(1) kW	1,27	1,43	1,83	2,07	2,58	2,97	4,08	4,53	5,07	5,39
Net sensible cooling capacity	(1)(6)(7) kW	1,22	1,38	1,76	2,00	2,51	2,90	3,95	4,40	4,92	5,24
Net latent power in cooling	(1)(6)(7) kW	0,14	0,22	0,28	0,41	0,69	0,80	0,70	0,80	0,90	1,06
Water flow in cooling mode	(1) l/s	0,07	0,08	0,10	0,12	0,16	0,18	0,23	0,25	0,29	0,31
Pressure Drop in cooling mode	(1) kPa	1,2	14,5	4,2	20,2	10,2	12,0	25,0	17,8	39,6	33,7
Total capacity (heating mode)	(2) kW	1,55	1,60	2,23	2,33	3,33	3,53	4,47	4,67	5,45	5,65
Total Net Heating Capacity	(2)(6) kW	1,60	1,65	2,30	2,40	3,40	3,60	4,60	4,80	5,60	5,80
Water flow in heating mode	(2) l/s	0,04	0,04	0,05	0,06	0,08	0,09	0,11	0,11	0,13	0,14
Pressure drop in heating mode	(2) kPa	9,4	9,9	11,8	12,7	21,2	23,4	9,4	10,1	12,1	12,9
Sound Pressure	(3) dB(A)	45	46	48	49	48	49	53	54	55	56
Sound Power	(4)(7) dB(A)	54	55	57	58	57	58	62	63	64	65
SIZE AND WEIGHT											
a-LIFE3 / DLIV - DFIV											
Length	(5) mm	450	450	650	650	850	850	1050	1050	1250	1250
Width	(5) mm	215	215	215	215	215	215	215	215	215	215
Height	(5) mm	450	450	450	450	450	450	450	450	450	450
Operating weight	(5) kg	12	12	15	15	21	22	24	26	28	30
a-LIFE3 / DLIO - DFIO											
Length	(5) mm	545	545	745	745	945	945	1145	1145	1345	1345
Width	(5) mm	215	215	215	215	215	215	215	215	215	215
Height	(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-LIFE3 / DLMV - DFMV / DLMO - DFMO											
Length	(5) mm	922	922	1112	1112	1302	1302	1492	1492	1682	1682
Width	(5) mm	233	233	233	233	233	233	233	233	233	233
Height	(5) mm	499	499	499	499	499	499	499	499	499	499
Operating weight	(5) kg	17	18	21	22	29	30	32	34	37	39

Notes:

- 1 Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.
- 2 Room temperature 20 °C d.b.; Hot water (in/out) 45/40 °C
- 3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non-binding value obtained 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.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



i-LIFE3 0102 - 1004

Fan-coil for professional applications, with cabinet or built-in version.
From 1,61 to 6,39 kW.

2-PIPE SYSTEM CONFIGURATION

i-LIFE3			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
2 PIPES SYSTEM CONFIGURATION							
ENERGY EFFICIENCY							
COOLING (EN14511 VALUE)							
FCEER	(1)(6)	kW/kW	147	156	183	135	131
FCEER Class			B	B	B	B	B
HEATING ONLY (EN14511 VALUE)							
FCCOP	(2)(6)	kW/kW	177	191	203	166	166
FCCOP Class			B	B	B	B	B
PERFORMANCE							
MIN SPEED							
Fan Power Input	(1)	W	5,37	7,40	9,56	17,4	17,0
Air flow rate	(1)	m ³ /h	191	250	363	501	565
Total capacity in cooling mode	(1)	kW	0,84	1,40	2,20	3,17	3,64
Total Net Cooling Capacity	(1)(6)(7)	kW	0,84	1,39	2,19	3,16	3,62
Sensible capacity in cooling mode	(1)	kW	0,67	1,12	1,62	2,54	2,91
Net sensible cooling capacity	(1)(6)(7)	kW	0,66	1,11	1,61	2,52	2,89
Net latent power in cooling	(1)(6)(7)	kW	0,17	0,28	0,58	0,64	0,73
Water flow in cooling mode	(1)	l/s	0,04	0,07	0,11	0,15	0,17
Pressure Drop in cooling mode	(1)	kPa	4,5	8,2	4,6	7,2	14,6
Total capacity (heating mode)	(2)	kW	1,00	1,66	2,32	3,73	4,33
Total Net Heating Capacity	(2)(6)	kW	1,00	1,67	2,33	3,75	4,35
Water flow in heating mode	(2)	l/s	0,05	0,08	0,11	0,18	0,21
Pressure drop in heating mode	(2)	kPa	4,7	9,1	4,5	7,9	15,2
Sound Pressure	(3)	dB(A)	29	33	33	39	39
Sound Power	(4)(7)	dB(A)	38	42	42	48	48
MED SPEED							
Fan Power Input	(1)	W	8,60	14,5	18,3	38,6	57,0
Air flow rate	(1)	m ³ /h	276	384	535	760	899
Total capacity in cooling mode	(1)	kW	1,29	2,00	3,07	4,44	5,30
Total Net Cooling Capacity	(1)(6)(7)	kW	1,28	1,98	3,05	4,40	5,25
Sensible capacity in cooling mode	(1)	kW	1,04	1,62	2,38	3,67	4,36
Net sensible cooling capacity	(1)(6)(7)	kW	1,03	1,60	2,36	3,63	4,30
Net latent power in cooling	(1)(6)(7)	kW	0,25	0,38	0,69	0,77	0,94
Water flow in cooling mode	(1)	l/s	0,06	0,10	0,15	0,21	0,25
Pressure Drop in cooling mode	(1)	kPa	9,4	14,3	8,3	12,9	28,8
Total capacity (heating mode)	(2)	kW	1,50	2,35	3,43	5,32	6,36
Total Net Heating Capacity	(2)(6)	kW	1,51	2,37	3,45	5,36	6,42
Water flow in heating mode	(2)	l/s	0,07	0,11	0,17	0,26	0,31
Pressure drop in heating mode	(2)	kPa	9,5	16,4	8,8	13,8	29,1
Sound Pressure	(3)	dB(A)	39	43	41	47	51
Sound Power	(4)(7)	dB(A)	48	52	50	56	60
MAX SPEED							
Fan Power Input	(1)	W	17,7	26,7	36,4	82,7	84,0
Air flow rate	(1)	m ³ /h	389	502	721	1028	1166
Total capacity in cooling mode	(1)	kW	1,61	2,45	3,72	5,30	6,39
Total Net Cooling Capacity	(1)(6)(7)	kW	1,59	2,42	3,69	5,22	6,31
Sensible capacity in cooling mode	(1)	kW	1,40	2,02	2,92	4,49	5,32
Net sensible cooling capacity	(1)(6)(7)	kW	1,38	1,99	2,88	4,41	5,23
Net latent power in cooling	(1)(6)(7)	kW	0,21	0,43	0,80	0,81	1,07
Water flow in cooling mode	(1)	l/s	0,08	0,12	0,18	0,25	0,31
Pressure Drop in cooling mode	(1)	kPa	13,9	19,7	11,7	17,6	40,4
Total capacity (heating mode)	(2)	kW	1,95	2,93	4,22	6,42	7,73
Total Net Heating Capacity	(2)(6)	kW	1,97	2,96	4,26	6,50	7,82
Water flow in heating mode	(2)	l/s	0,09	0,14	0,20	0,31	0,37
Pressure drop in heating mode	(2)	kPa	14,8	23,8	12,4	18,5	40,4
Sound Pressure	(3)	dB(A)	46	49	49	55	57
Sound Power	(4)(7)	dB(A)	55	58	58	64	65
SIZE AND WEIGHT							
a-LIFE3 / DLIV - DFIV							
Length	(5)	mm	450	650	850	1050	1250
Width	(5)	mm	215	215	215	215	215
Height	(5)	mm	450	450	450	450	450
Operating weight	(5)	kg	11	14	21	24	28
a-LIFE3 / DLIO - DFIO							
Length	(5)	mm	545	745	945	1145	1345
Width	(5)	mm	215	215	215	215	215
Height	(5)	mm	450	450	450	450	450
Operating weight	(5)	kg	12	15	21	25	29
a-LIFE3 / DLMV - DFMV							
Length	(5)	mm	922	1112	1302	1492	1682
Width	(5)	mm	233	233	233	233	233
Height	(5)	mm	499	499	499	499	499
Operating weight	(5)	kg	14	17	24	28	32
a-LIFE3 / DLMO - DFMO							
Length	(5)	mm	922	1112	1302	1492	1682
Width	(5)	mm	233	233	233	233	233
Height	(5)	mm	499	499	499	499	499
Operating weight	(5)	kg	15	19	26	30	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) 45/40 °C
- 3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non-binding value obtained 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.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



4-PIPE SYSTEM CONFIGURATION

i-LIFE3		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
4 PIPES SYSTEM CONFIGURATION						
ENERGY EFFICIENCY						
COOLING (EN14511 VALUE)						
FCEER	(1)(6) kW/kW	147	156	183	135	131
FCEER Class		B	B	B	B	C
HEATING ONLY (EN14511 VALUE)						
FCCOP	(2)(6) kW/kW	164	162	181	123	126
FCCOP Class		B	B	B	C	C
PERFORMANCE						
MIN SPEED						
Fan Power Input	(1) W	5,37	7,40	9,56	17,4	17,0
Air flow rate	(1) m ³ /h	191	250	363	501	565
Total capacity in cooling mode	(1) kW	0,84	1,40	2,20	3,17	3,64
Total Net Cooling Capacity	(1)(6)(7) kW	0,84	1,39	2,19	3,16	3,62
Sensible capacity in cooling mode	(1) kW	0,67	1,12	1,62	2,54	2,91
Net sensible cooling capacity	(1)(6)(7) kW	0,66	1,11	1,61	2,52	2,89
Net latent power in cooling	(1)(6)(7) kW	0,17	0,28	0,58	0,64	0,73
Water flow in cooling mode	(1) l/s	0,04	0,07	0,11	0,15	0,17
Pressure Drop in cooling mode	(1) kPa	4,5	8,2	4,6	7,2	14,6
Total capacity (heating mode)	(2) kW	0,98	1,43	2,15	2,80	3,34
Total Net Heating Capacity	(2)(6) kW	0,99	1,44	2,16	2,81	3,36
Water flow in heating mode	(2) l/s	0,02	0,03	0,05	0,07	0,08
Pressure drop in heating mode	(2) kPa	4,5	5,6	10,3	4,3	10,3
Sound Pressure	(3) dB(A)	29	33	33	39	39
Sound Power	(4)(7) dB(A)	38	42	42	48	48
MED SPEED						
Fan Power Input	(1) W	8,60	14,5	18,3	38,6	57,0
Air flow rate	(1) m ³ /h	276	384	535	760	899
Total capacity in cooling mode	(1) kW	1,29	2,00	3,07	4,44	5,30
Total Net Cooling Capacity	(1)(6)(7) kW	1,28	1,98	3,05	4,40	5,25
Sensible capacity in cooling mode	(1) kW	1,04	1,62	2,38	3,67	4,36
Net sensible cooling capacity	(1)(6)(7) kW	1,03	1,60	2,36	3,63	4,30
Net latent power in cooling	(1)(6)(7) kW	0,25	0,38	0,69	0,77	0,94
Water flow in cooling mode	(1) l/s	0,06	0,10	0,15	0,21	0,25
Pressure Drop in cooling mode	(1) kPa	9,4	14,3	8,3	12,9	28,8
Total capacity (heating mode)	(2) kW	1,26	1,96	2,90	3,80	4,72
Total Net Heating Capacity	(2)(6) kW	1,27	1,97	2,92	3,84	4,78
Water flow in heating mode	(2) l/s	0,03	0,05	0,07	0,09	0,11
Pressure drop in heating mode	(2) kPa	6,7	9,5	16,8	7,1	18,3
Sound Pressure	(3) dB(A)	39	43	41	47	51
Sound Power	(4)(7) dB(A)	48	52	50	56	60
MAX SPEED						
Fan Power Input	(1) W	17,7	26,7	36,4	82,7	84,0
Air flow rate	(1) m ³ /h	389	502	721	1028	1166
Total capacity in cooling mode	(1) kW	1,61	2,45	3,72	5,30	6,39
Total Net Cooling Capacity	(1)(6)(7) kW	1,59	2,42	3,69	5,22	6,31
Sensible capacity in cooling mode	(1) kW	1,40	2,02	2,92	4,49	5,32
Net sensible cooling capacity	(1)(6)(7) kW	1,38	1,99	2,88	4,41	5,23
Net latent power in cooling	(1)(6)(7) kW	0,21	0,43	0,80	0,81	1,07
Water flow in cooling mode	(1) l/s	0,08	0,12	0,18	0,25	0,31
Pressure Drop in cooling mode	(1) kPa	13,9	19,7	11,7	17,6	40,4
Total capacity (heating mode)	(2) kW	1,63	2,38	3,58	4,74	5,72
Total Net Heating Capacity	(2)(6) kW	1,65	2,40	3,61	4,83	5,80
Water flow in heating mode	(2) l/s	0,04	0,06	0,09	0,12	0,14
Pressure drop in heating mode	(2) kPa	10,2	13,1	24,0	10,4	25,2
Sound Pressure	(3) dB(A)	46	49	49	55	56
Sound Power	(4)(7) dB(A)	55	58	58	64	65
SIZE AND WEIGHT						
a-LIFE3 / DLIV - DFIV						
Length	(5) mm	450	650	850	1050	1250
Width	(5) mm	215	215	215	215	215
Height	(5) mm	450	450	450	450	450
Operating weight	(5) kg	12	15	22	26	30
a-LIFE3 / DLIO - DFIO						
Length	(5) mm	545	745	945	1145	1345
Width	(5) mm	215	215	215	215	215
Height	(5) mm	450	450	450	450	450
Operating weight	(5) kg	13	16	22	26	30
a-LIFE3 / DLMV - DFMV						
Length	(5) mm	922	1112	1302	1492	1682
Width	(5) mm	233	233	233	233	233
Height	(5) mm	499	499	499	499	499
Operating weight	(5) kg	15	18	25	29	33
a-LIFE3 / DLMO - DFMO						
Length	(5) mm	922	1112	1302	1492	1682
Width	(5) mm	233	233	233	233	233
Height	(5) mm	499	499	499	499	499
Operating weight	(5) kg	16	20	27	31	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) 45/40 °C
- 3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non-binding value obtained 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.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

a-LIFE2 HP

i-LIFE2 HP



High head built-in version fan coil unit featuring high pressure centrifugal fans for professional applications



LIFE2 HP features more powerful, high pressure centrifugal fans for ducted installations.

The range is available in the AC motor version or with modulating EC Brushless motor.

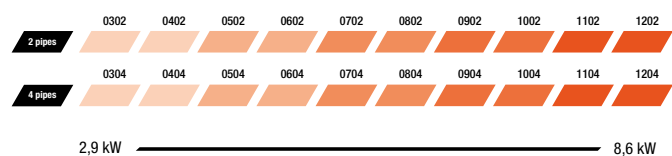
LIFE2 HP is the ideal solution for built-in systems and installations in tertiary and commercial sectors.



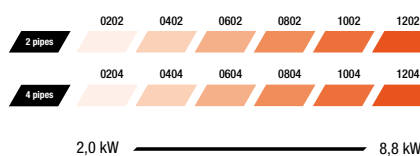
THE RANGE

Thanks to the different versions, with cabinet or built in, low air intake or front air intake, vertical or horizontal installation, it is very easy to find the perfect solution for any system request.

a-LIFE2 HP High head fan coil unit with AC fan



i-LIFE2 HP High head fan coil unit with EC fan



DIMENSIONS

Size A Size B Size C Size D Size E Size F

Total cooling capacity at maximum speed: 12/7 °C inlet/outlet water temperature; 27 °C (19 °C) Air temperature [inlet dry bulb (inlet wet bulb)]

Uncompromising comfort, efficiency and design

i-LIFE2 HP CONTINUOUS CAPACITY MODULATION FOR THE HIGHEST EFFICIENCY


EC FAN

VERY SILENT OPERATION

Designed for the maximum acoustic comfort, the unit operates always at the lowest fan speed to keep the temperature set-point stable and ensure low noise emissions.



REAL SAVINGS

The EC motor technology allows continuous, airflow and capacity modulation so that the unit can easily follow any variation in the thermal load.

The extreme efficiency offers a reduction in energy use: up to 50% in comparison to a traditional AC fan. EC fan coil units are key in cutting the yearly energy consumption and related cost of buildings.



HIGH CONFIGURABILITY

A wide range of already mounted options ensures a quick and easy installation as well as easy maintenance activities.



WATER VALVES KITS

- ▶ 2-way valves (both on/ff and modulating)
- ▶ 3-way valves (both on/ff and modulating)

ELECTRICAL HEATER

- ▶ Electrical heater from 0,7 to 3,0 kW

AIR INTAKE & SUPPLY PLENUM KITS

The plenum kit allows connection to the ductwork:

- ▶ Straight Plenum
- ▶ 90° Plenum
- ▶ Round Pipes Plenum

AIR INTAKE & OUTLET GRIDS

Optional grid for air intake or outlet in duct systems, supplied with filter.

FRESH AIR INTAKE DAMPER KIT

The air intake damper can be installed on LIFE2 HP fan coils with air intake from below, in the built-in version:

- ▶ KIT A – Manual fresh air intake damper kit.
- ▶ KIT B – Motorised fresh air intake damper kit.

NEW ACTIVE CARBON FILTER

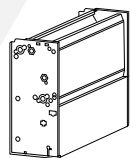
a-LIFE2 HP and i-LIFE2 HP have been designed for better air quality.

The innovative AC CARBON filter is based on the capacity of activated carbon to adsorb, through its porosity, most of the organic compounds from allergens and harsh pollutants to unpleasant tastes and odors.

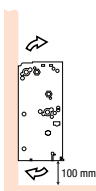


INSTALLATION

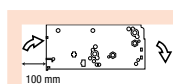
Low air intake



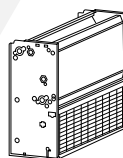
Vertical



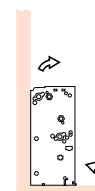
Horizontal



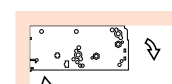
Front air intake



Vertical



Horizontal





a-LIFE2 HP 0302 - 1204

High head built-in fan coil unit.
From 2,88 to 8,60 kW

2-PIPE SYSTEM CONFIGURATION

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	
2 PIPES SYSTEM CONFIGURATION												
ENERGY EFFICIENCY												
COOLING (EN14511 VALUE)												
FCEER	(1)(6)	kW/kW	37	40	58	59	43	49	43	48	41	44
FCEER Class			E	E	D	D	E	E	E	E	E	E
HEATING ONLY (EN14511 VALUE)												
FCCOP	(2)(6)	kW/kW	41	45	65	79	49	55	48	53	46	50
FCCOP Class			E	E	E	D	E	E	E	E	E	E
PERFORMANCE												
MIN SPEED												
Fan Power Input	(1)	W	52,0	52,0	38,0	45,0	67,0	67,0	112	112	168	168
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	2,03	2,16	2,24	2,88	3,15	3,43	4,72	5,29	6,74	7,24
Sensible capacity in cooling mode	(1)	kW	1,69	1,82	1,71	2,16	2,49	2,78	3,88	4,42	5,83	6,25
Net sensible cooling capacity	(1)(6)(7)	kW	1,64	1,77	1,67	2,11	2,42	2,71	3,77	4,31	5,66	6,08
Net latent power in cooling	(1)(6)(7)	kW	0,39	0,39	0,57	0,76	0,73	0,72	0,95	0,98	1,07	1,15
Water flow in cooling mode	(1)	l/s	0,10	0,11	0,11	0,14	0,15	0,17	0,23	0,26	0,33	0,35
Pressure Drop in cooling mode	(1)	kPa	19,6	16,8	4,5	8,8	11,9	13,0	20,4	28,0	25,6	29,3
Total capacity (heating mode)	(2)	kW	2,33	2,48	2,55	3,27	3,61	3,93	5,42	6,05	7,73	8,30
Total Net Heating Capacity	(2)(6)	kW	2,38	2,53	2,59	3,32	3,68	3,99	5,53	6,16	7,90	8,46
Water flow in heating mode	(2)	l/s	0,11	0,12	0,12	0,16	0,17	0,19	0,26	0,29	0,37	0,40
Pressure drop in heating mode	(2)	kPa	18,2	19,2	5,1	9,8	10,7	11,8	23,4	28,1	13,3	37,6
Sound Pressure	(3)	dB(A)	42	45	34	41	38	41	47	51	54	54
Sound Power	(4)(7)	dB(A)	51	54	43	50	47	50	56	60	63	63
MEG SPEED												
Fan Power Input	(1)	W	71,0	71,0	53,0	63,0	96,0	96,0	135	135	179	179
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	2,24	2,63	2,99	3,17	3,48	4,40	5,57	6,12	7,32	7,92
Sensible capacity in cooling mode	(1)	kW	1,90	2,24	2,31	2,42	2,84	3,74	4,67	5,15	6,46	7,03
Net sensible cooling capacity	(1)(6)(7)	kW	1,83	2,17	2,25	2,36	2,74	3,64	4,53	5,01	6,28	6,85
Net latent power in cooling	(1)(6)(7)	kW	0,41	0,46	0,73	0,81	0,73	0,75	1,03	1,10	1,04	1,07
Water flow in cooling mode	(1)	l/s	0,11	0,13	0,15	0,15	0,17	0,21	0,27	0,30	0,36	0,39
Pressure Drop in cooling mode	(1)	kPa	24,2	25,1	8,0	10,8	14,7	21,5	28,3	37,4	30,3	35,1
Total capacity (heating mode)	(2)	kW	2,59	3,03	3,40	3,62	4,00	5,03	6,39	7,00	8,40	9,08
Total Net Heating Capacity	(2)(6)	kW	2,66	3,10	3,46	3,68	4,10	5,13	6,53	7,14	8,58	9,26
Water flow in heating mode	(2)	l/s	0,13	0,15	0,16	0,17	0,19	0,24	0,31	0,34	0,41	0,44
Pressure drop in heating mode	(2)	kPa	22,2	28,0	8,8	11,8	13,1	18,8	31,7	36,8	15,8	45,1
Sound Pressure	(3)	dB(A)	45	52	41	44	41	49	51	54	55	57
Sound Power	(4)(7)	dB(A)	54	61	50	53	50	58	60	63	64	66
MAX SPEED												
Fan Power Input	(1)	W	95,0	95,0	75,0	89,0	132	132	149	149	194	194
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	2,79	3,19	3,67	4,05	4,49	5,07	6,05	7,05	7,86	8,41
Sensible capacity in cooling mode	(1)	kW	2,39	2,77	2,93	3,21	3,91	4,44	5,14	5,91	6,99	7,32
Net sensible cooling capacity	(1)(6)(7)	kW	2,30	2,67	2,85	3,12	3,78	4,31	4,99	5,76	6,80	7,13
Net latent power in cooling	(1)(6)(7)	kW	0,49	0,51	0,81	0,93	0,71	0,76	1,06	1,29	1,06	1,28
Water flow in cooling mode	(1)	l/s	0,14	0,16	0,18	0,20	0,22	0,25	0,30	0,34	0,38	0,41
Pressure Drop in cooling mode	(1)	kPa	37,9	37,0	12,2	17,6	24,7	28,8	33,5	49,6	35,0	39,7
Total capacity (heating mode)	(2)	kW	3,23	3,67	4,19	4,64	5,18	5,83	6,95	8,07	9,02	9,64
Total Net Heating Capacity	(2)(6)	kW	3,33	3,77	4,27	4,73	5,31	5,97	7,10	8,22	9,21	9,83
Water flow in heating mode	(2)	l/s	0,16	0,18	0,20	0,22	0,25	0,28	0,34	0,39	0,44	0,47
Pressure drop in heating mode	(2)	kPa	33,9	40,5	13,1	18,7	21,3	24,8	37,0	47,8	18,2	50,9
Sound Pressure	(3)	dB(A)	52	56	47	51	52	55	54	59	57	59
Sound Power	(4)(7)	dB(A)	61	65	56	60	61	64	63	68	66	68
SIZE AND WEIGHT												
a-LIFE2 HP DFIV/DLIV												
Length	(5)	mm	650	650	850	850	1050	1050	1250	1250	1450	1450
Width	(5)	mm	215	215	215	215	215	215	215	215	215	215
Height	(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												
Length	(5)	mm	745	745	945	945	1145	1145	1345	1345	1545	1545
Width	(5)	mm	215	215	215	215	215	215	215	215	215	215
Height	(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) 45/40 °C
- 3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non-binding value obtained 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.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



4-PIPE SYSTEM CONFIGURATION

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
4 PIPES SYSTEM CONFIGURATION												
ENERGY EFFICIENCY												
COOLING (EN14511 VALUE)												
FCEER	(1)(6)	kW/kW	36	40	58	69	43	49	43	48	41	44
FCEER Class			E	E	D	D	E	E	E	E	E	E
HEATING ONLY (EN14511 VALUE)												
FCCOP	(2)(6)	kW/kW	30	29	46	55	31	35	30	34	33	32
FCCOP Class			E	E	E	E	E	E	E	E	E	E
PERFORMANCE												
MIN SPEED												
Fan Power Input	(1)	W	52,0	52,0	38,0	38,0	67,0	67,0	112	112	168	168
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	2,03	2,16	2,24	2,88	3,15	3,43	4,72	5,29	6,74	7,24
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
Net sensible cooling capacity	(1)(6)(7)	kW	1,64	1,77	1,80	2,33	2,42	2,71	3,77	4,31	5,66	6,08
Net latent power in cooling	(1)(6)(7)	kW	0,39	0,39	0,44	0,55	0,73	0,72	0,95	0,98	1,07	1,15
Water flow in cooling mode	(1)	l/s	0,10	0,11	0,11	0,14	0,15	0,17	0,23	0,26	0,33	0,35
Pressure Drop in cooling mode	(1)	kPa	19,6	16,8	4,5	7,5	11,9	13,0	20,8	28,0	25,6	29,3
Total capacity (heating mode)	(2)	kW	1,50	1,59	1,78	2,28	2,30	2,50	3,43	3,84	4,91	5,26
Total Net Heating Capacity	(2)(6)	kW	1,55	1,64	1,82	2,32	2,37	2,56	3,54	3,95	5,07	5,43
Water flow in heating mode	(2)	l/s	0,04	0,04	0,04	0,06	0,06	0,06	0,08	0,09	0,12	0,13
Pressure drop in heating mode	(2)	kPa	5,8	6,5	8,3	13,2	4,4	5,2	7,6	9,5	25,9	29,5
Sound Pressure	(3)	dB(A)	42	45	34	41	38	41	49	51	54	54
Sound Power	(4)(7)	dB(A)	51	54	43	50	47	50	58	60	63	63
MED SPEED												
Fan Power Input	(1)	W	71,0	71,0	53,0	53,0	96,0	96,0	135	135	179	179
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	2,24	2,63	2,99	3,18	3,48	4,40	5,57	6,12	7,32	7,92
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
Net sensible cooling capacity	(1)(6)(7)	kW	1,83	2,17	2,43	2,61	2,74	3,64	4,53	5,01	6,28	6,85
Net latent power in cooling	(1)(6)(7)	kW	0,41	0,46	0,56	0,57	0,73	0,75	1,03	1,10	1,04	1,07
Water flow in cooling mode	(1)	l/s	0,11	0,13	0,15	0,15	0,17	0,21	0,27	0,30	0,36	0,39
Pressure Drop in cooling mode	(1)	kPa	24,2	25,1	8,0	9,2	14,7	21,5	28,9	37,4	30,3	35,1
Total capacity (heating mode)	(2)	kW	1,67	1,95	2,37	2,52	2,55	3,21	4,05	4,44	5,33	5,76
Total Net Heating Capacity	(2)(6)	kW	1,74	2,02	2,43	2,58	2,65	3,31	4,19	4,58	5,51	5,94
Water flow in heating mode	(2)	l/s	0,04	0,05	0,06	0,06	0,06	0,08	0,10	0,11	0,13	0,14
Pressure drop in heating mode	(2)	kPa	7,1	9,5	14,2	15,9	5,4	8,4	10,5	12,5	30,3	35,1
Sound Pressure	(3)	dB(A)	45	52	41	44	41	49	51	54	55	57
Sound Power	(4)(7)	dB(A)	54	61	50	53	50	58	60	63	64	66
MAX SPEED												
Fan Power Input	(1)	W	95,0	95,0	75,0	75,0	132	132	149	149	194	194
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	2,79	3,19	3,67	4,07	4,49	5,07	6,05	7,05	7,86	8,41
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
Net sensible cooling capacity	(1)(6)(7)	kW	2,30	2,67	3,08	3,45	3,78	4,31	4,99	5,76	6,80	7,13
Net latent power in cooling	(1)(6)(7)	kW	0,49	0,51	0,59	0,61	0,71	0,76	1,06	1,29	1,06	1,28
Water flow in cooling mode	(1)	l/s	0,14	0,16	0,18	0,20	0,22	0,25	0,30	0,34	0,38	0,41
Pressure Drop in cooling mode	(1)	kPa	37,9	37,0	12,2	15,2	24,7	28,8	34,2	49,6	35,0	39,7
Total capacity (heating mode)	(2)	kW	2,08	2,36	2,92	3,24	3,30	3,72	4,41	5,12	5,72	6,12
Total Net Heating Capacity	(2)(6)	kW	2,17	2,46	3,00	3,31	3,43	3,85	4,56	5,27	5,92	6,31
Water flow in heating mode	(2)	l/s	0,05	0,06	0,07	0,08	0,08	0,09	0,11	0,12	0,14	0,15
Pressure drop in heating mode	(2)	kPa	10,8	13,8	21,0	25,4	8,8	11,1	12,3	16,3	34,7	39,3
Sound Pressure	(3)	dB(A)	52	56	47	51	52	55	54	59	57	59
Sound Power	(4)(7)	dB(A)	61	65	56	60	61	64	63	68	66	68
SIZE AND WEIGHT												
a-LIFE2 HP DFIV/DLIV												
Length	(5)	mm	650	650	850	850	1050	1050	1250	1250	1450	1450
Width	(5)	mm	215	215	215	215	215	215	215	215	215	215
Height	(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 DF10/DL10												
Length	(5)	mm	745	745	945	945	1145	1145	1345	1345	1545	1545
Width	(5)	mm	215	215	215	215	215	215	215	215	215	215
Height	(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) 45/40 °C
- 3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non-binding value obtained 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.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



i-LIFE2 HP 0302 - 1204

High head built-in fan coil unit with Inverter technology.
From 2,00 to 8,76 kW

2-PIPE SYSTEM CONFIGURATION

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
2 PIPES SYSTEM CONFIGURATION								
ENERGY EFFICIENCY								
COOLING (EN14511 VALUE)								
FCEER	(1)(6)	kW/kW	125	122	124	120	136	110
FCEER Class			B	B	B	B	B	C
HEATING ONLY (EN14511 VALUE)								
FCCOP	(2)(6)	kW/kW	141	162	173	165	183	153
FCCOP Class			C	B	B	B	B	C
PERFORMANCE								
MIN SPEED								
Fan Power Input	(1)	W	6,81	11,2	10,9	11,9	17,4	22,4
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	0,99	1,49	1,94	2,33	3,22	4,63
Sensible capacity in cooling mode	(1)	kW	0,79	1,16	1,50	1,83	2,44	4,27
Net sensible cooling capacity	(1)(6)(7)	kW	0,78	1,15	1,49	1,82	2,42	4,25
Net latent power in cooling	(1)(6)(7)	kW	0,21	0,34	0,45	0,52	0,80	0,38
Water flow in cooling mode	(1)	l/s	0,05	0,07	0,09	0,11	0,15	0,22
Pressure Drop in cooling mode	(1)	kPa	3,1	7,8	3,3	5,9	10,1	11,6
Total capacity (heating mode)	(2)	kW	1,18	1,68	2,28	2,70	3,61	5,21
Total Net Heating Capacity	(2)(6)	kW	1,19	1,69	2,29	2,72	3,63	5,23
Water flow in heating mode	(2)	l/s	0,06	0,08	0,11	0,13	0,17	0,25
Pressure drop in heating mode	(2)	kPa	4,1	9,3	4,2	5,9	10,8	14,8
Sound Pressure	(3)	dB(A)	30	33	33	34	37	57
Sound Power	(4)(7)	dB(A)	40	42	42	43	46	66
MED SPEED								
Fan Power Input	(1)	W	13,1	17,1	25,4	40,3	43,1	97,3
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	1,44	2,28	2,99	4,44	5,34	7,45
Sensible capacity in cooling mode	(1)	kW	1,14	1,74	2,39	3,42	4,13	6,35
Net sensible cooling capacity	(1)(6)(7)	kW	1,13	1,72	2,36	3,38	4,09	6,25
Net latent power in cooling	(1)(6)(7)	kW	0,30	0,56	0,63	1,06	1,26	1,20
Water flow in cooling mode	(1)	l/s	0,07	0,11	0,14	0,21	0,26	0,36
Pressure Drop in cooling mode	(1)	kPa	6,7	18,1	8,0	21,4	27,9	30,5
Total capacity (heating mode)	(2)	kW	1,72	2,58	3,51	5,16	6,00	8,45
Total Net Heating Capacity	(2)(6)	kW	1,73	2,59	3,53	5,20	6,05	8,55
Water flow in heating mode	(2)	l/s	0,08	0,12	0,17	0,25	0,29	0,41
Pressure drop in heating mode	(2)	kPa	8,3	20,6	9,6	19,7	27,7	39,1
Sound Pressure	(3)	dB(A)	38	42	44	45	46	59
Sound Power	(4)(7)	dB(A)	47	51	53	54	56	68
MAX SPEED								
Fan Power Input	(1)	W	27,1	39,1	62,9	76,6	105	171
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	1,97	3,34	4,30	5,60	7,40	8,59
Sensible capacity in cooling mode	(1)	kW	1,59	2,59	3,49	4,36	5,81	7,11
Net sensible cooling capacity	(1)(6)(7)	kW	1,56	2,56	3,43	4,28	5,71	6,93
Net latent power in cooling	(1)(6)(7)	kW	0,41	0,78	0,87	1,32	1,69	1,66
Water flow in cooling mode	(1)	l/s	0,10	0,16	0,21	0,27	0,36	0,42
Pressure Drop in cooling mode	(1)	kPa	12,7	39,3	16,9	34,4	53,8	41,2
Total capacity (heating mode)	(2)	kW	2,40	3,68	5,09	6,53	8,51	9,82
Total Net Heating Capacity	(2)(6)	kW	2,43	3,72	5,16	6,60	8,61	9,99
Water flow in heating mode	(2)	l/s	0,12	0,18	0,25	0,32	0,41	0,47
Pressure drop in heating mode	(2)	kPa	15,6	40,8	19,6	30,7	52,8	52,8
Sound Pressure	(3)	dB(A)	48	51	53	54	56	60
Sound Power	(4)(7)	dB(A)	57	60	62	63	65	69
SIZE AND WEIGHT								
i-LIFE2 HP DFIV/DLIV								
Length	(5)	mm	450	650	850	1050	1250	1450
Width	(5)	mm	215	215	215	215	215	215
Height	(5)	mm	450	450	450	450	450	450
Operating weight	(5)	kg	11	14	20	24	28	34
i-LIFE2 HP DFIO/DLIO								
Length	(5)	mm	545	745	945	1145	1345	1545
Width	(5)	mm	215	215	215	215	215	215
Height	(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) 45/40 °C
- 3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non-binding value obtained 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.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



4-PIPE SYSTEM CONFIGURATION

			0204	0404	0604	0804	1004	1204
i-LIFE2 HP								
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
4 PIPES SYSTEM CONFIGURATION								
ENERGY EFFICIENCY								
COOLING (EN14511 VALUE)								
FCEER	(1)(6)	kW/kW	125	122	124	120	136	110
FCEER Class			B	B	B	B	B	C
HEATING ONLY (EN14511 VALUE)								
FCCOP	(2)(6)	kW/kW	104	99	110	103	116	77
FCCOP Class			C	D	C	C	C	D
PERFORMANCE								
MIN SPEED								
Fan Power Input	(1)	W	6,81	11,2	10,9	11,9	17,4	22,4
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	0,99	1,49	1,94	2,33	3,22	4,63
Sensible capacity in cooling mode	(1)	kW	0,79	1,16	1,50	1,83	2,44	4,27
Net sensible cooling capacity	(1)(6)(7)	kW	0,78	1,15	1,49	1,82	2,42	4,25
Net latent power in cooling	(1)(6)(7)	kW	0,21	0,34	0,45	0,52	0,80	0,38
Water flow in cooling mode	(1)	l/s	0,05	0,07	0,09	0,11	0,15	0,22
Pressure Drop in cooling mode	(1)	kPa	3,1	7,8	3,3	5,9	10,1	11,6
Total capacity (heating mode)	(2)	kW	0,69	1,01	1,43	1,66	2,27	3,07
Total Net Heating Capacity	(2)(6)	kW	0,70	1,03	1,45	1,67	2,28	3,09
Water flow in heating mode	(2)	l/s	0,02	0,02	0,03	0,04	0,06	0,07
Pressure drop in heating mode	(2)	kPa	2,1	2,8	5,6	2,4	3,5	10,7
Sound Pressure	(3)	dB(A)	30	33	33	34	37	57
Sound Power	(4)(7)	dB(A)	40	42	42	43	46	66
MED SPEED								
Fan Power Input	(1)	W	13,1	17,1	25,4	40,3	43,1	97,3
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	1,44	2,28	2,99	4,44	5,34	7,45
Sensible capacity in cooling mode	(1)	kW	1,14	1,74	2,39	3,42	4,13	6,35
Net sensible cooling capacity	(1)(6)(7)	kW	1,13	1,72	2,36	3,38	4,09	6,25
Net latent power in cooling	(1)(6)(7)	kW	0,30	0,56	0,63	1,06	1,26	1,20
Water flow in cooling mode	(1)	l/s	0,07	0,11	0,14	0,21	0,26	0,36
Pressure Drop in cooling mode	(1)	kPa	6,7	18,1	8,0	21,4	27,9	30,5
Total capacity (heating mode)	(2)	kW	1,00	1,56	2,20	3,16	3,78	5,03
Total Net Heating Capacity	(2)(6)	kW	1,02	1,57	2,23	3,20	3,82	5,13
Water flow in heating mode	(2)	l/s	0,02	0,04	0,05	0,08	0,09	0,12
Pressure drop in heating mode	(2)	kPa	4,1	6,2	12,4	8,1	9,2	27,2
Sound Pressure	(3)	dB(A)	38	42	44	45	46	59
Sound Power	(4)(7)	dB(A)	47	51	53	54	56	68
MAX SPEED								
Fan Power Input	(1)	W	27,1	39,1	62,9	76,6	105	171
Air flow rate	(1)	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
Total Net Cooling Capacity	(1)(6)(7)	kW	1,97	3,34	4,30	5,60	7,40	8,59
Sensible capacity in cooling mode	(1)	kW	1,59	2,59	3,49	4,36	5,81	7,11
Net sensible cooling capacity	(1)(6)(7)	kW	1,56	2,56	3,43	4,28	5,71	6,93
Net latent power in cooling	(1)(6)(7)	kW	0,41	0,78	0,87	1,32	1,69	1,66
Water flow in cooling mode	(1)	l/s	0,10	0,16	0,21	0,27	0,36	0,42
Pressure Drop in cooling mode	(1)	kPa	12,7	39,3	16,9	34,4	53,8	41,2
Total capacity (heating mode)	(2)	kW	1,39	2,28	3,20	4,00	5,27	5,84
Total Net Heating Capacity	(2)(6)	kW	1,42	2,32	3,26	4,08	5,37	6,01
Water flow in heating mode	(2)	l/s	0,03	0,06	0,08	0,10	0,13	0,14
Pressure drop in heating mode	(2)	kPa	7,5	12,9	24,8	12,7	17,2	36,0
Sound Pressure	(3)	dB(A)	48	51	53	54	56	60
Sound Power	(4)(7)	dB(A)	57	60	62	63	65	69
SIZE AND WEIGHT								
i-LIFE2 HP DFV/DLIV								
Length	(5)	mm	450	650	850	1050	1250	1450
Width	(5)	mm	215	215	215	215	215	215
Height	(5)	mm	450	450	450	450	450	450
Operating weight	(5)	kg	12	15	22	25	29	35
i-LIFE2 HP DFIO/DLIO								
Length	(5)	mm	545	745	945	1145	1345	1545
Width	(5)	mm	215	215	215	215	215	215
Height	(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) 45/40 °C
- 3 Sound pressure level in free field on a reflective surface, 1 m from fan front and 1 m from the ground. Non-binding value obtained 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.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

a-HWD2

i-HWD2



High head ducted type terminal

a-HWD2 and i-HWD2 are ducted high head hydronic terminals for professional and commercial applications.

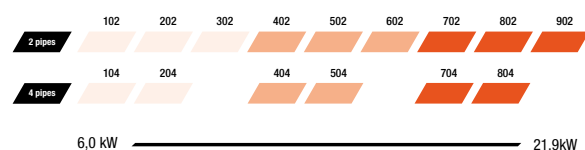
The possibility of vertical or horizontal installation, together with its compactness and the wide range of accessories or ductwork panels, make these units very flexible in installation and adaptable to any system type. The internal insulation of HWD2 units ensures excellent acoustic comfort, with imperceptible noise emissions.



THE RANGE

Thanks to the different versions, with cabinet or built in, low air intake or front air intake, vertical or horizontal installation, it is very easy to find the perfect solution for any system request.

a-HWD2 Fan-coil unit with AC motor

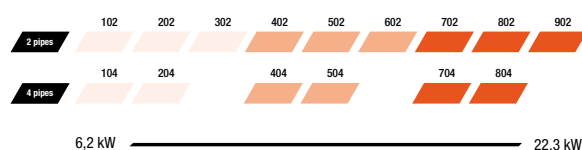


DIMENSIONS

Size A Size B Size C

Total cooling capacity at maximum speed: 12/7 °C inlet/outlet water temperature; 27 °C (19 °C) Air temperature [inlet dry bulb (inlet wet bulb)]

i-HWD2 Fan-coil unit with Inverter EC motor



i-HWD2 CONTINUOUS CAPACITY MODULATION FOR THE HIGHEST EFFICIENCY


EC FAN

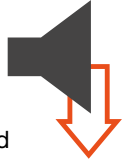
REAL SAVINGS



The inverter technology allows continuous, stepless airflow and capacity modulation so that the unit can easily follow any variation in the thermal load.

The extreme efficiency offers a reduction in energy use: up to 50% in comparison to a traditional AC fan. EC fan coil units are key in cutting the yearly energy consumption and related cost of buildings.

VERY SILENT OPERATION



Designed for the maximum acoustic comfort, the unit operates always at the lowest fan speed to keep the temperature set-point stable and ensure low noise emissions.

YOUR CUSTOMISED SOLUTION

A wide range of already mounted options ensures a quick and easy installation as well as easy maintenance activities.

WATER VALVES KITS

- ▶ 2-way valves (both on/ff and modulating)
- ▶ 3-way valves (both on/ff and modulating)

AIR FILTERS

The standard units are supplied without filters A. The units can be equipped with vast range of filters:

- ▶ flat filter
- ▶ corrugated air filters
- ▶ filter rating pocket air filters

ELECTRICAL HEATER

Electrical heater section from 0.7 to 3.0 kW

AIR INTAKE & SUPPLY PLENUM KITS

The plenum kit allows connection to the ductwork:

- ▶ Straight Plenum
- ▶ 90° Plenum
- ▶ Round Pipes Plenum

AIR INTAKE & SUPPLY PLENUM KITS

Optional grid for air intake or outlet in duct systems, supplied with filter.


FRESH AIR INTAKE DAMPER KIT

- ▶ Manual fresh air intake damper kit.
- ▶ Motorised fresh air intake damper kit.

SILENCER

New Silencer accessory section on air intake/supply for lower noise emissions.

102-302 **-6 dB(A)** 

102-302 **-7 dB(A)** 

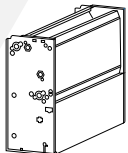
102-302 **-8 dB(A)** 

HIGHLY RESISTANT CASING

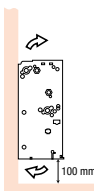
HWD2 terminals feature a bearing structure made of thick galvanized steel sheet, resistant to rust, corrosion and aggressive chemical agents.

INSTALLATION

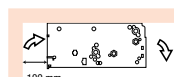
Low air intake



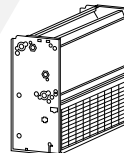
Vertical



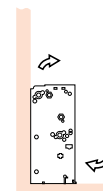
Horizontal



Front air intake



Vertical



Horizontal





a-HWD2 102 - 902

High head ducted type terminal.
From 5,87 to 21,9 kW

2-PIPE SYSTEM CONFIGURATION

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
2 PIPES SYSTEM CONFIGURATION											
ENERGY EFFICIENCY											
COOLING (EN14511 VALUE)											
FCEER	(1)(6) kW/kW		34	34	43	30	31	42	-	-	-
FCEER Class			D	D	C	D	D	C	-	-	-
HEATING ONLY (EN14511 VALUE)											
FCCOP	(2)(6) kW/kW		41	42	49	31	39	49	-	-	-
FCCOP Class			C	C	C	D	D	C	-	-	-
PERFORMANCE											
MIN SPEED											
ESP External Static Pressure	(6) Pa		24	26	29	18	20	21	27	35	36
Fan Power Input	(6) W		128	149	149	175	222	222			
Air flow rate	(6) m³/h		720	840	835	960	1280	1270	2400	2830	2800
Total capacity in cooling mode	kW		4,36	5,25	6,54	5,52	7,34	9,82	11,4	15,3	18,5
Total Net Cooling Capacity	(1)(6)(7) kW		4,23	5,10	6,39	5,35	7,12	9,60			
Sensible capacity in cooling mode	kW		3,57	4,35	4,65	4,49	6,11	6,83	9,05	12,0	13,6
Net sensible cooling capacity	(1)(6)(7) kW		3,44	4,20	4,50	4,31	5,89	6,61			
Net latent power in cooling	(1)(6)(7) kW		0,79	0,90	1,89	1,03	1,23	2,99			
Max water flow	l/s		0,21	0,25	0,31	0,26	0,35	0,47	0,54	0,73	0,89
Pressure Drop in cooling mode	(1) kPa		15,3	20,1	20,2	6,9	11,4	12,9			
Total capacity (heating mode)	kW		4,40	5,34	6,18	5,57	7,47	9,39	12,3	16,7	18,9
Total Net Heating Capacity	(2)(6) kW		4,53	5,49	6,33	5,75	7,69	9,62			
Water flow in heating mode	l/s		0,21	0,26	0,30	0,27	0,36	0,45	0,60	0,81	0,91
Pressure drop in heating mode	(2) kPa		15,8	21,2	18,3	7,2	12,1	12,0			
Sound Pressure on inlet side Lp (IR)	dB(A)		37	42	44	38	43	45	39	47	48
Sound Power on inlet side Lw (IR)	dB(A)		48	53	55	49	54	56			
Sound Pressure on outlet side Lp (OD)	dB(A)		36	40	44	33	37	44	35	43	44
Sound Power on outlet side Lw (OD)	dB(A)		47	51	55	44	48	55			
MED SPEED											
ESP External Static Pressure	(6) Pa		50	50	50	50	50	50	50	50	50
Fan Power Input	(6) W		170	193	193	280	344	344			
Air flow rate	(6) m³/h		1040	1160	1145	1620	1980	1960	3220	3380	3330
Total capacity in cooling mode	kW		5,66	6,35	7,96	8,17	10,0	13,4	14,1	17,5	21,0
Total Net Cooling Capacity	(1)(6)(7) kW		5,49	6,16	7,77	7,89	9,68	13,0			
Sensible capacity in cooling mode	kW		4,74	5,38	5,78	6,94	8,69	9,57	11,5	13,9	15,6
Net sensible cooling capacity	(1)(6)(7) kW		4,57	5,19	5,59	6,66	8,35	9,23			
Net latent power in cooling	(1)(6)(7) kW		0,92	0,97	2,18	1,23	1,33	3,82			
Max water flow	l/s		0,27	0,30	0,38	0,39	0,48	0,64	0,68	0,84	1,00
Pressure Drop in cooling mode	(1) kPa		25,9	29,6	30,1	15,3	21,5	24,0			
Total capacity (heating mode)	kW		5,82	6,59	7,67	8,39	10,4	13,1	15,6	19,4	21,7
Total Net Heating Capacity	(2)(6) kW		5,99	6,78	7,86	8,67	10,7	13,5			
Water flow in heating mode	l/s		0,28	0,32	0,37	0,41	0,50	0,63	0,75	0,94	1,05
Pressure drop in heating mode	(2) kPa		27,9	32,4	28,4	16,4	23,6	23,5			
Sound Pressure on inlet side Lp (IR)	dB(A)		47	49	50	49	51	52	51	53	54
Sound Power on inlet side Lw (IR)	dB(A)		58	60	61	60	62	63			
Sound Pressure on outlet side Lp (OD)	dB(A)		46	47	48	46	47	52	48	50	51
Sound Power on outlet side Lw (OD)	dB(A)		57	58	59	57	58	63			
MAX SPEED											
ESP External Static Pressure	(6) Pa		66	59	59	76	64	61	63	56	56
Fan Power Input	(6) W		193	212	212	344	390	390			
Air flow rate	(6) m³/h		1190	1260	1240	2000	2200	2180	3690	3660	3640
Total capacity in cooling mode	kW		6,00	6,70	8,45	9,36	10,8	14,4	15,4	18,2	21,9
Total Net Cooling Capacity	(1)(6)(7) kW		5,81	6,49	8,24	9,02	10,4	14,0			
Sensible capacity in cooling mode	kW		5,09	5,87	6,17	8,12	9,53	10,4	12,6	14,5	16,4
Net sensible cooling capacity	(1)(6)(7) kW		4,90	5,66	5,96	7,78	9,14	9,99			
Net latent power in cooling	(1)(6)(7) kW		0,91	0,83	2,28	1,24	1,28	4,03			
Max water flow	l/s		0,29	0,32	0,40	0,45	0,52	0,69	0,74	0,87	1,05
Pressure Drop in cooling mode	(1) kPa		29,1	33,0	34,0	20,1	25,1	27,9			
Total capacity (heating mode)	kW		6,22	7,01	8,16	9,70	11,3	14,2	17,2	20,5	22,9
Total Net Heating Capacity	(2)(6) kW		6,41	7,22	8,37	10,0	11,7	14,6			
Water flow in heating mode	l/s		0,30	0,34	0,39	0,47	0,55	0,68	0,83	0,99	1,11
Pressure drop in heating mode	(2) kPa		31,9	36,8	32,2	22,0	28,1	27,5			
Sound Pressure on inlet side Lp (IR)	dB(A)		50	51	52	53	54	55	54	54	55
Sound Power on inlet side Lw (IR)	dB(A)		61	62	63	64	65	66			
Sound Pressure on outlet side Lp (OD)	dB(A)		49	50	50	52	50	54	51	51	52
Sound Power on outlet side Lw (OD)	dB(A)		60	61	61	63	61	65			
SIZE AND WEIGHT											
a-HWD2 / DLIV-DFIV											
Length	(5) mm		880	880	880	1280	1280	1280	1680	1680	1680
Width	(5) mm		630	630	630	630	630	630	630	630	630
Height	(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											
Length	(5) mm		880	880	880	1280	1280	1280	1680	1680	1680
Width	(5) mm		605	605	605	605	605	605	605	605	605
Height	(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) 45/40 °C
- 5 Unit in standard configuration/execution, without optional accessories.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



4-PIPE SYSTEM CONFIGURATION

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
4 PIPES SYSTEM CONFIGURATION								
ENERGY EFFICIENCY								
COOLING (EN14511 VALUE)								
FCEER	(1)(6)	kW/kW	33	33	30	30	-	-
FCEER Class			D	D	D	D	-	-
HEATING ONLY (EN14511 VALUE)								
FCCOP	(2)(6)	kW/kW	31	31	30	30	-	-
FCCOP Class			D	D	D	D	-	-
PERFORMANCE								
MIN SPEED								
ESP External Static Pressure	(6)	Pa	24	26	18	20	27	35
Fan Power Input	(6)	W	128	149	175	222		
Air flow rate	(6)	m ³ /h	700	810	930	1240	2330	2750
Total capacity in cooling mode		kW	4,27	5,13	5,40	7,18	11,1	15,0
Total Net Cooling Capacity	(1)(6)(7)	kW	4,14	4,98	5,23	6,96		
Sensible capacity in cooling mode		kW	3,48	4,25	4,38	5,96	8,83	11,7
Net sensible cooling capacity	(1)(6)(7)	kW	3,35	4,10	4,20	5,74		
Net latent power in cooling	(1)(6)(7)	kW	0,79	0,88	1,02	1,22		
Max water flow		l/s	0,20	0,25	0,26	0,34	0,53	0,72
Pressure Drop in cooling mode	(1)	kPa	14,6	19,2	6,6	10,9		
Total capacity (heating mode)		kW	3,60	4,19	4,87	6,09	10,4	11,9
Total Net Heating Capacity	(2)(6)	kW	3,73	4,34	5,05	6,31		
Water flow in heating mode		l/s	0,09	0,10	0,12	0,15	0,25	0,29
Pressure drop in heating mode	(2)	kPa	5,3	7,1	4,7	7,2		
Sound Pressure on inlet side Lp (IR)		dB(A)	37	45	38	43	39	47
Sound Power on inlet side Lw (IR)		dB(A)	48	56	49	54		
Sound Pressure on outlet side Lp (OD)		dB(A)	36	43	33	37	35	0
Sound Power on outlet side Lw (OD)		dB(A)	47	54	44	48		
MED SPEED								
ESP External Static Pressure	(6)	Pa	50	50	50	50	50	50
Fan Power Input	(6)	W	170	193	280	344		
Air flow rate	(6)	m ³ /h	1010	1130	1570	1920	3130	3280
Total capacity in cooling mode		kW	5,53	6,21	7,99	9,80	13,8	17,1
Total Net Cooling Capacity	(1)(6)(7)	kW	5,36	6,02	7,71	9,46		
Sensible capacity in cooling mode		kW	4,63	5,25	6,77	8,48	11,2	13,5
Net sensible cooling capacity	(1)(6)(7)	kW	4,46	5,06	6,49	8,14		
Net latent power in cooling	(1)(6)(7)	kW	0,90	0,96	1,22	1,32		
Max water flow		l/s	0,26	0,30	0,38	0,47	0,66	0,82
Pressure Drop in cooling mode	(1)	kPa	24,7	28,3	14,6	20,6		
Total capacity (heating mode)		kW	4,72	5,33	7,23	8,57	13,1	13,7
Total Net Heating Capacity	(2)(6)	kW	4,89	5,53	7,51	8,91		
Water flow in heating mode		l/s	0,11	0,13	0,18	0,21	0,32	0,33
Pressure drop in heating mode	(2)	kPa	8,9	11,2	10,1	13,9		
Sound Pressure on inlet side Lp (IR)		dB(A)	47	49	49	51	51	53
Sound Power on inlet side Lw (IR)		dB(A)	58	60	60	62		
Sound Pressure on outlet side Lp (OD)		dB(A)	46	47	46	47	48	0
Sound Power on outlet side Lw (OD)		dB(A)	57	58	57	58		
MAX SPEED								
ESP External Static Pressure	(6)	Pa	66	59	76	64	63	56
Fan Power Input	(6)	W	193	212	344	390		
Air flow rate	(6)	m ³ /h	1150	1220	1940	2130	3620	3610
Total capacity in cooling mode		kW	5,87	6,56	9,15	10,6	15,2	18,0
Total Net Cooling Capacity	(1)(6)(7)	kW	5,68	6,35	8,81	10,2		
Sensible capacity in cooling mode		kW	4,96	5,73	7,92	9,30	12,4	14,4
Net sensible cooling capacity	(1)(6)(7)	kW	4,77	5,52	7,58	8,91		
Net latent power in cooling	(1)(6)(7)	kW	0,91	0,83	1,23	1,28		
Max water flow		l/s	0,28	0,31	0,44	0,51	0,73	0,86
Pressure Drop in cooling mode	(1)	kPa	27,9	31,6	19,2	24,1		
Total capacity (heating mode)		kW	5,24	5,69	8,47	9,39	14,4	14,4
Total Net Heating Capacity	(2)(6)	kW	5,43	5,90	8,81	9,78		
Water flow in heating mode		l/s	0,13	0,14	0,21	0,23	0,35	0,35
Pressure drop in heating mode	(2)	kPa	10,8	12,6	13,6	16,6		
Sound Pressure on inlet side Lp (IR)		dB(A)	50	51	53	54	54	54
Sound Power on inlet side Lw (IR)		dB(A)	61	62	64	65		
Sound Pressure on outlet side Lp (OD)		dB(A)	49	50	49	50	51	0
Sound Power on outlet side Lw (OD)		dB(A)	60	61	60	61		
SIZE AND WEIGHT								
a-HWD2 / DLIV-DFIV								
Length	(5)	mm	880	880	1280	1280	1680	1680
Width	(5)	mm	630	630	630	630	630	630
Height	(5)	mm	275	275	275	275	275	275
Operating weight	(5)	kg	39	40	55	57	72	74
a-HWD2 / DLIO-DFIO								
Length	(5)	mm	880	880	1280	1280	1680	1680
Width	(5)	mm	605	605	605	605	605	605
Height	(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) 45/40 °C
- 5 Unit in standard configuration/execution, without optional accessories.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



i-HWD2 102 - 902

Ducted High Head Hydronic Terminal with EC Brushless motor
for continuous regulation of fan speed and air flow.
From 6,20 to 22,3 kW

2-PIPE SYSTEM CONFIGURATION

i-HWD2 102 202 302 402 502 602 702 802 902

ELECTRICAL DATA

Power supply V/ph/Hz 230/1/50 230/1/50 230/1/50 230/1/50 230/1/50 230/1/50 230/1/50 230/1/50 230/1/50 230/1/50

2 PIPES SYSTEM CONFIGURATION

ENERGY EFFICIENCY

COOLING (EN14511 VALUE)

FCEER (1)(6) kW/kW 83 69 95 87 71 90 - - -

FCEER Class B B A A B A - - -

HEATING ONLY (EN14511 VALUE)

FCCOP (2)(6) kW/kW 96 87 112 109 91 109 - - -

FCCOP Class A A A A A A - - -

PERFORMANCE

MIN SPEED

ESP External Static Pressure (6) Pa 14 20 20 8 14 14 19 27 27

Fan Power Input (6) W 42,1 58,9 54,8 51,6 64,8 71,9

Air flow rate (6) m³/h 732 850 849 980 1294 1284 2473 2885 2854

Total capacity in cooling mode kW 4,41 5,29 6,60 5,60 7,40 9,89 11,6 15,5 18,8

Total Net Cooling Capacity (1)(6)(7) kW 4,32 5,20 6,50 5,47 7,27 9,75

Sensible capacity in cooling mode kW 3,62 4,39 4,70 4,56 6,17 6,89 9,27 12,1 13,8

Net sensible cooling capacity (1)(6)(7) kW 3,53 4,29 4,61 4,44 6,04 6,76

Net latent power in cooling (1)(6)(7) kW 0,79 0,90 1,90 1,03 1,23 2,99

Max water flow l/s 0,21 0,25 0,32 0,27 0,35 0,47 0,56 0,74 0,90

Pressure Drop in cooling mode (1) kPa 15,3 20,1 20,3 6,9 11,4 12,8

Total capacity (heating mode) kW 4,95 5,99 6,93 6,28 8,37 10,5 14,0 18,9 21,3

Total Net Heating Capacity (2)(6) kW 4,93 6,00 6,93 6,25 8,36 10,5

Water flow in heating mode l/s 0,24 0,29 0,33 0,30 0,40 0,51 0,68 0,91 1,03

Pressure drop in heating mode (2) kPa 19,6 26,3 22,8 8,9 14,9 14,8

Sound Pressure on inlet side Lp (IR) dB(A) 41 42 44 38 43 45 40 48 49

Sound Power on inlet side Lw (IR) dB(A) 52 53 55 49 54 56

Sound Pressure on outlet side Lp (OD) dB(A) 39 40 41 34 37 41 36 44 45

Sound Power on outlet side Lw (OD) dB(A) 50 51 52 44 48 52

MED SPEED

ESP External Static Pressure (6) Pa 30 38 38 23 34 35 35 39 40

Fan Power Input (6) W 82,6 120 107 148 205 209

Air flow rate (6) m³/h 1077 1189 1174 1685 2044 2023 3336 3474 3427

Total capacity in cooling mode kW 5,74 6,45 8,11 8,37 10,2 13,7 14,5 17,7 21,3

Total Net Cooling Capacity (1)(6)(7) kW 5,58 6,24 7,86 8,03 9,82 13,2

Sensible capacity in cooling mode kW 4,83 5,52 5,90 7,14 8,93 9,80 11,9 14,1 15,9

Net sensible cooling capacity (1)(6)(7) kW 4,66 5,26 5,68 6,79 8,48 9,36

Net latent power in cooling (1)(6)(7) kW 0,92 0,97 2,18 1,23 1,33 3,82

Max water flow l/s 0,27 0,31 0,39 0,40 0,49 0,65 0,69 0,85 1,02

Pressure Drop in cooling mode (1) kPa 25,9 29,6 30,1 15,3 21,5 24,1

Total capacity (heating mode) kW 6,57 7,46 8,68 9,58 11,8 14,9 17,9 22,0 24,6

Total Net Heating Capacity (2)(6) kW 6,55 7,44 8,63 9,48 11,7 14,8

Water flow in heating mode l/s 0,32 0,36 0,42 0,46 0,57 0,72 0,86 1,06 1,19

Pressure drop in heating mode (2) kPa 34,5 40,2 35,2 20,3 29,2 29,1

Sound Pressure on inlet side Lp (IR) dB(A) 48 50 51 50 52 53 52 53 54

Sound Power on inlet side Lw (IR) dB(A) 58 60 61 60 62 63

Sound Pressure on outlet side Lp (OD) dB(A) 47 48 49 47 48 49 49 50 51

Sound Power on outlet side Lw (OD) dB(A) 57 58 59 57 58 59

MAX SPEED

ESP External Static Pressure (6) Pa 41 46 46 38 45 45 46 46 46

Fan Power Input (6) W 116 149 132 253 284 275

Air flow rate (6) m³/h 1251 1299 1280 2146 2342 2299 3829 3746 3710

Total capacity in cooling mode kW 6,20 6,85 8,64 9,85 11,3 15,0 15,9 18,6 22,3

Total Net Cooling Capacity (1)(6)(7) kW 5,89 6,56 8,33 9,11 10,6 14,1 13,1 14,9 16,7

Sensible capacity in cooling mode kW 5,37 6,02 6,33 8,64 10,0 10,8

Net sensible cooling capacity (1)(6)(7) kW 4,98 5,72 6,04 7,86 9,29 10,1

Net latent power in cooling (1)(6)(7) kW 0,91 0,83 2,28 1,24 1,29 4,02

Max water flow l/s 0,30 0,33 0,41 0,47 0,54 0,72 0,76 0,89 1,07

Pressure Drop in cooling mode (1) kPa 29,2 33,0 34,0 20,1 25,3 27,8

Total capacity (heating mode) kW 7,18 7,96 9,28 11,4 13,1 16,4 19,8 23,2 25,9

Total Net Heating Capacity (2)(6) kW 7,04 7,94 9,20 11,0 12,9 16,0 0,95 1,12 1,25

Water flow in heating mode l/s 0,35 0,38 0,45 0,55 0,63 0,79

Pressure drop in heating mode (2) kPa 39,5 45,6 39,9 27,2 35,1 33,9

Sound Pressure on inlet side Lp (IR) dB(A) 51 51 52 54 54 55 54 54 55

Sound Power on inlet side Lw (IR) dB(A) 61 62 63 64 65 66

Sound Pressure on outlet side Lp (OD) dB(A) 50 50 50 50 50 51 51 51 52

Sound Power on outlet side Lw (OD) dB(A) 60 61 61 60 61 62

SIZE AND WEIGHT

i-HWD2 / DLIV-DFIV

Length (5) mm 880 880 880 1280 1280 1280 1680 1680 1680

Width (5) mm 630 630 630 630 630 630 630 630 630

Height (5) mm 275 275 275 275 275 275 275 275 275

Operating weight (5) kg 37 38 40 52 54 57 68 70 73

i-HWD2 / DLIC-DFIC

Length (5) mm 880 880 880 1280 1280 1280 1680 1680 1680

Width (5) mm 605 605 605 605 605 605 605 605 605

Height (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) 45/40 °C

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

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT



4-PIPE SYSTEM CONFIGURATION

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
4 PIPES SYSTEM CONFIGURATION								
ENERGY EFFICIENCY								
COOLING (EN14511 VALUE)								
FCEER	(1)(6)	kW/kW	82	68	65	55	-	-
FCEER Class			B	B	B	C	-	-
HEATING ONLY (EN14511 VALUE)								
FCCOP	(2)(6)	kW/kW	80	65	69	49	-	-
FCCOP Class			B	B	B	C	-	-
PERFORMANCE								
MIN SPEED								
ESP External Static Pressure	(6)	Pa	19	20	8	14	19	27
Fan Power Input	(6)	W	59,8	63,0	53,7	68,1		
Air flow rate	(6)	m ³ /h	863	850	980	1294	2473	2885
Total capacity in cooling mode		kW	4,98	5,29	5,60	7,42	11,6	15,5
Total Net Cooling Capacity	(1)(6)(7)	kW	4,89	5,19	5,47	7,29		
Sensible capacity in cooling mode		kW	4,12	4,40	4,56	6,18	9,28	12,1
Net sensible cooling capacity	(1)(6)(7)	kW	4,04	4,30	4,44	6,05		
Net latent power in cooling	(1)(6)(7)	kW	0,85	0,90	1,03	1,23		
Max water flow		l/s	0,24	0,25	0,27	0,35	0,56	0,74
Pressure Drop in cooling mode	(1)	kPa	19,8	20,2	6,9	11,5		
Total capacity (heating mode)		kW	4,23	4,33	5,06	6,28	10,9	12,3
Total Net Heating Capacity	(2)(6)	kW	4,26	4,36	5,04	6,30		
Water flow in heating mode		l/s	0,10	0,11	0,12	0,15	0,27	0,30
Pressure drop in heating mode	(2)	kPa	7,1	7,4	5,0	7,6		
Sound Pressure on inlet side Lp (IR)		dB(A)	43	42	38	43	40	48
Sound Power on inlet side Lw (IR)		dB(A)	54	53	49	54		
Sound Pressure on outlet side Lp (OD)		dB(A)	42	40	34	37	36	0
Sound Power on outlet side Lw (OD)		dB(A)	53	51	44	48		
MED SPEED								
ESP External Static Pressure	(6)	Pa	41	38	23	34	35	39
Fan Power Input	(6)	W	131	128	154	221		
Air flow rate	(6)	m ³ /h	1251	1189	1685	2044	3336	3474
Total capacity in cooling mode		kW	6,19	6,44	8,35	10,3	14,5	17,7
Total Net Cooling Capacity	(1)(6)(7)	kW	6,00	6,21	8,00	9,80		
Sensible capacity in cooling mode		kW	5,41	5,56	7,13	8,96	11,8	14,0
Net sensible cooling capacity	(1)(6)(7)	kW	5,19	5,29	6,77	8,49		
Net latent power in cooling	(1)(6)(7)	kW	0,81	0,92	1,22	1,31		
Max water flow		l/s	0,30	0,31	0,40	0,49	0,69	0,84
Pressure Drop in cooling mode	(1)	kPa	30,4	29,4	15,2	21,6		
Total capacity (heating mode)		kW	5,59	5,57	7,61	9,05	13,8	14,1
Total Net Heating Capacity	(2)(6)	kW	5,65	5,58	7,55	9,02		
Water flow in heating mode		l/s	0,14	0,14	0,19	0,22	0,33	0,34
Pressure drop in heating mode	(2)	kPa	11,9	11,7	10,5	14,7		
Sound Pressure on inlet side Lp (IR)		dB(A)	51	50	50	52	52	53
Sound Power on inlet side Lw (IR)		dB(A)	62	60	60	62		
Sound Pressure on outlet side Lp (OD)		dB(A)	50	48	47	48	49	0
Sound Power on outlet side Lw (OD)		dB(A)	61	58	57	58		
MAX SPEED								
ESP External Static Pressure	(6)	Pa	48	46	38	45	46	46
Fan Power Input	(6)	W	165	158	272	304		
Air flow rate	(6)	m ³ /h	1359	1299	2146	2342	3829	3746
Total capacity in cooling mode		kW	6,56	6,85	9,86	11,3	15,9	18,7
Total Net Cooling Capacity	(1)(6)(7)	kW	6,32	6,55	9,09	10,6		
Sensible capacity in cooling mode		kW	5,77	6,02	8,67	10,0	13,1	14,9
Net sensible cooling capacity	(1)(6)(7)	kW	5,53	5,72	7,87	9,27		
Net latent power in cooling	(1)(6)(7)	kW	0,79	0,84	1,22	1,29		
Max water flow		l/s	0,31	0,33	0,47	0,54	0,76	0,89
Pressure Drop in cooling mode	(1)	kPa	34,1	33,1	20,1	25,4		
Total capacity (heating mode)		kW	5,94	5,90	9,14	9,85	15,2	15,0
Total Net Heating Capacity	(2)(6)	kW	6,03	5,95	8,94	9,87		
Water flow in heating mode		l/s	0,14	0,14	0,22	0,24	0,37	0,36
Pressure drop in heating mode	(2)	kPa	13,4	13,1	14,2	17,2		
Sound Pressure on inlet side Lp (IR)		dB(A)	52	51	54	54	54	54
Sound Power on inlet side Lw (IR)		dB(A)	63	62	64	65		
Sound Pressure on outlet side Lp (OD)		dB(A)	51	50	54	50	51	0
Sound Power on outlet side Lw (OD)		dB(A)	62	61	65	61		
SIZE AND WEIGHT								
i-HWD2 / DLIV-DFIV								
Length	(5)	mm	880	880	1280	1280	1680	1680
Width	(5)	mm	630	630	630	630	630	630
Height	(5)	mm	275	275	275	275	275	275
Operating weight	(5)	kg	39	40	55	57	72	74
i-HWD2 / DLIO-DFIO								
Length	(5)	mm	880	880	1280	1280	1680	1680
Width	(5)	mm	605	605	605	605	605	605
Height	(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) 45/40 °C
- 5 Unit in standard configuration/execution, without optional accessories.

6 Values in compliance with EN14511

7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

CONTROLLERS

A wide range of wall-mounted controls for managing the fan coil units. Each device can be easily integrated in any home automation system, centralized HVAC plant, or BMS.

COMPATIBILITY	a-LIFE3	i-LIFE3	a-LIFE2 HP	i-LIFE2 HP	a-HWD2	i-HWD2
PS/PSW	✓		✓		✓	
MT/MTW	✓		✓		✓	
AT/ATW	✓		✓		✓	
AT-EC/ATW-EC		✓		✓		✓
EK/EKW	✓*	✓*	✓*	✓*	✓*	✓*
iK/iKW	✓*	✓*	✓*	✓*	✓*	✓*
IR REMOTE CONTROL	✓*	✓*	✓*	✓*	✓*	✓*

* with HB/iHB power board



PS on board controller
PSW wall mounted controller



MT on board thermostat
MTW wall mounted thermostat



AT on board thermostat
ATW wall mounted thermostat



AT-EC on board thermostat
ATW-EC wall mounted thermostat



EK on board thermostat
EKW wall mounted thermostat

(available in coupling with HB or i-HB power board)



iK On board programmable thermostat
iKW Wall mounted programmable thermostat

(available in coupling with HB or i-HB power board)



IR REMOTE CONTROL

(available in coupling with HB or i-HB power board)

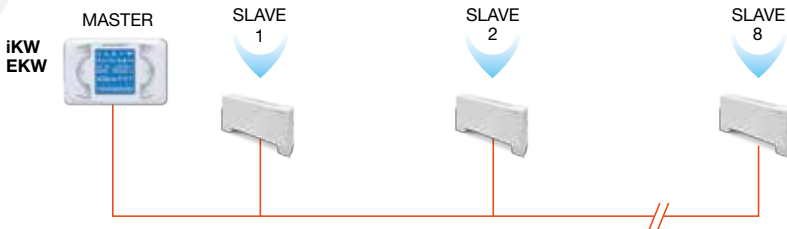
CONTROLS	PS/PSW	MT/MTW	AT/ATW	AT-EC/ATW-EC	EK/EKW	iK/iKW	IR
FUNCTIONS							
Fan speed regulation (3 speed)	✓	✓	✓	✓	✓	✓**	✓
Led for the ventilation speed	n.a.	n.a.	✓	✓	✓	✓	✓
Auto fan speed regulation	n.a.	n.a.	✓	✓	✓	✓	✓
Set-point regulation	n.a.	n.a.	✓	✓	✓	✓	✓
Operating mode (Cooling/Heating)	✓	✓	✓	✓	✓	✓	✓
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.	✓*	n.a.	✓*	✓*	✓
Connection with My Home BTicino	n.a.	n.a.	✓*	n.a.	✓*	✓*	✓*
Digital input	n.a.	n.a.	✓	✓	✓	✓	✓
Window contact	n.a.	n.a.	✓	✓	✓	✓	✓
Economy	n.a.	n.a.	✓	✓	✓	✓	✓
Configuration dip 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.	n.a.	✓*	✓*	✓
Integration with Master/Slave configurations	n.a.	n.a.	n.a.	n.a.	✓	✓	✓
LCD screen	n.a.	n.a.	n.a.	n.a.	n.a.	✓	✓
Weekly timer setting	n.a.	n.a.	n.a.	n.a.	n.a.	✓	n.a.
SLEEP function	n.a.	n.a.	n.a.	n.a.	n.a.	✓	n.a.
Hourly timer setting	n.a.	n.a.	n.a.	n.a.	n.a.	✓	✓

* with dedicated accessory

** 6 speed available with i-HB power board

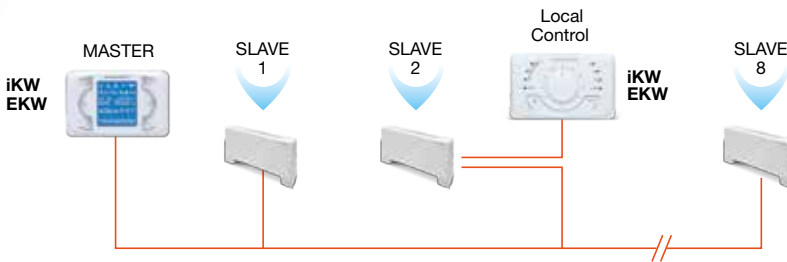
MULTIPLE CONNECTIONS

Integration in a Master / Slave network up to 8 units



All units are equipped with HB or i-HB power board.

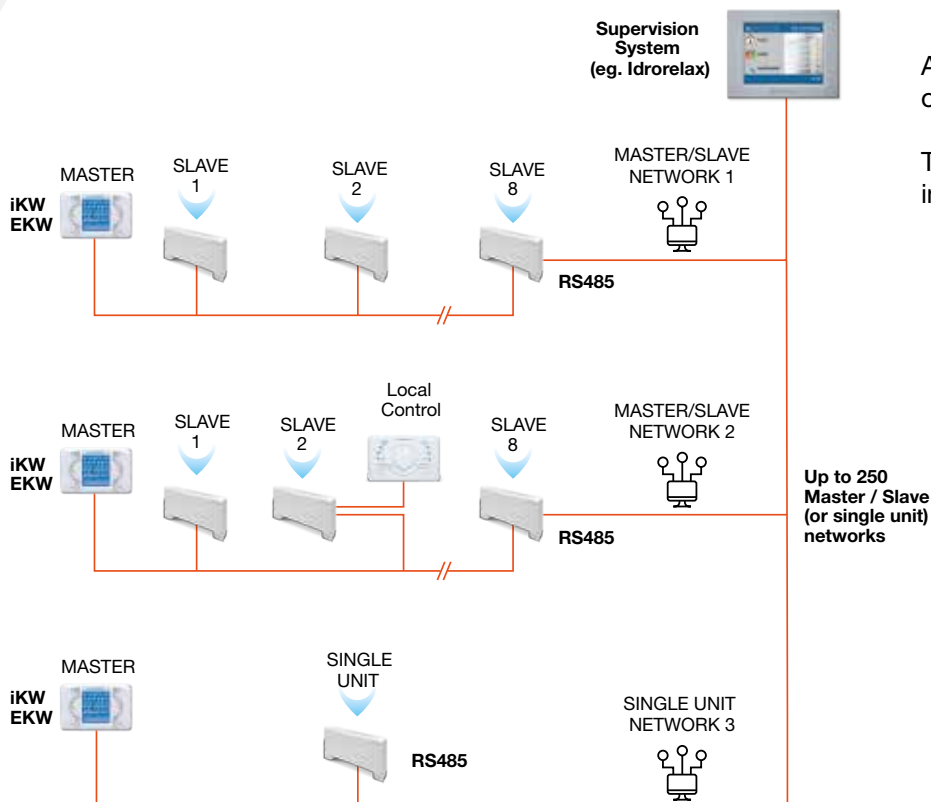
Integration in a Master / Slave network up to 8 units with local control



All units are equipped with HB or i-HB power board.

The local controller manages the connected unit by setting: set-point (± 2 °C set-point compared to the master control), local On/Off, fan speed.

Integration in a supervision system Modbus RTU



All units are equipped with HB or i-HB power board.

The RS485 board is installed in one unit of the network.

Up to 250 Master / Slave (or single unit) networks



for a greener tomorrow

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



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

Head Office: Via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

Tel (+39) 0424 509 500 - Fax (+39) 0424 509 509

www.climaveneta.com

www.melcohit.com