

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



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.

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 copper 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.

Accessory

- 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

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 pipes 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 pipes 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 pipes) and additional coil (winter - 4 pipes). 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

i-HWD2 / DLIV-DFIV			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	84	69	95	87	71	90	0	0	0
FCEER Class			B	B	A	A	B	A	G	G	G
HEATING ONLY (EN14511 VALUE)											
FCCOP	(2)(6)	kW/kW	104	87	112	109	91	109	0	0	0
FCCOP Class			A	A	A	A	A	A	G	G	G
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	43,0	64,8	71,9			
Air flow rate	(6)	m ³ /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	5,48	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	4,45	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	20	20	7	11	13			
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	6,24	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	20	26	23	9	15	15			
Sound Pressure on inlet side Lp (IR)		dB(A)	38	42	44	38	43	45	40	48	49
Sound Power on inlet side Lw (IR)		dB(A)	48	53	55	49	54	56			
Sound Pressure on outlet side Lp (OD)		dB(A)	37	40	41	34	37	41	36	44	45
Sound Power on outlet side Lw (OD)		dB(A)	47	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	123	205	209			
Air flow rate	(6)	m ³ /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	8,05	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	6,82	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	26	30	30	15	22	24			
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	9,45	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	40	35	20	29	29			
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	211	284	275			
Air flow rate	(6)	m ³ /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	9,15	10,6	14,1			
Sensible capacity in cooling mode		kW	5,37	6,02	6,33	8,64	10,0	10,8	13,1	14,9	16,7
Net sensible cooling capacity	(1)(6)(7)	kW	4,98	5,72	6,04	7,91	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	33	34	20	25	28			
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			
Water flow in heating mode		l/s	0,35	0,38	0,45	0,55	0,63	0,79	0,95	1,12	1,25
Pressure drop in heating mode	(2)	kPa	40	46	40	27	35	34			
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											
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

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 EN14511-3:2013.
- 7 Values in compliance with [REGULATION (EU) N. 2016/2281]
- Certified data in EUROVENT

i-HWD2 / DLIO-DFIO	102	202	302	402	502	602	702	802	902
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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
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2 PIPES SYSTEM CONFIGURATION

ENERGY EFFICIENCY

COOLING (EN14511 VALUE)

FCEER	(1)(6)	kW/kW	84	69	95	87	71	90	0	0	0
FCEER Class			B	B	A	A	B	A	G	G	G

HEATING ONLY (EN14511 VALUE)

FCCOP	(2)(6)	kW/kW	104	87	112	109	91	109	0	0	0
FCCOP Class			A	A	A	A	A	A	G	G	G

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	43,0	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	5,48	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	4,45	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	20	20	7	11	13			
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	6,24	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	20	26	23	9	15	15			
Sound Pressure on inlet side Lp (IR)		dB(A)	38	42	44	38	43	45	40	48	49
Sound Power on inlet side Lw (IR)		dB(A)	48	53	55	49	54	56			
Sound Pressure on outlet side Lp (OD)		dB(A)	37	40	41	34	37	41	36	44	45
Sound Power on outlet side Lw (OD)		dB(A)	47	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	123	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	8,05	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	6,82	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	26	30	30	15	22	24			
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	9,45	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	40	35	20	29	29			
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	211	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	9,15	10,6	14,1			
Sensible capacity in cooling mode		kW	5,37	6,02	6,33	8,64	10,0	10,8	13,1	14,9	16,7
Net sensible cooling capacity	(1)(6)(7)	kW	4,98	5,72	6,04	7,91	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	33	34	20	25	28			
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			
Water flow in heating mode		l/s	0,35	0,38	0,45	0,55	0,63	0,79	0,95	1,12	1,25
Pressure drop in heating mode	(2)	kPa	40	46	40	27	35	34			
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

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) 45/40 °C

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

6 Values in compliance with EN14511-3:2013.

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

Certified data in EUROVENT

i-HWD2 / DLIV-DFIV			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	85	69	0	0
FCEER Class			B	B	A	B	G	G
HEATING ONLY (EN14511 VALUE)								
FCCOP	(2)(6)	kW/kW	80	65	89	70	0	0
FCCOP Class			B	B	A	B	G	G
PERFORMANCE								
MIN SPEED								
ESP External Static Pressure	(6)	Pa	19	20	8	14	19	27
Fan Power Input	(6)	W	59,8	63,0	44,8	68,1		
Air flow rate	(6)	m³/h	863	850	980	1294		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	5,48	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	4,45	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	20	20	7	12		
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	5,03	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	7	5	7		
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	128	221		
Air flow rate	(6)	m³/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	8,02	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	6,80	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	29	15	22		
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	7,52	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	12	12	10	13		
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	227	304		
Air flow rate	(6)	m³/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	9,13	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	7,91	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	33	20	25		
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	8,89	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	13	13	16		
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	50	50	51	0
Sound Power on outlet side Lw (OD)		dB(A)	62	61	61	61		
SIZE AND WEIGHT								
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

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 EN14511-3:2013.

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

Certified data in EUROVENT

i-HWD2 / DLIO-DFIO

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
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4 PIPES SYSTEM CONFIGURATION

ENERGY EFFICIENCY

COOLING (EN14511 VALUE)

FCEER	(1)(6)	kW/kW	82	68	85	69	0	0
FCEER Class			B	B	A	B	G	G

HEATING ONLY (EN14511 VALUE)

FCCOP	(2)(6)	kW/kW	80	65	89	70	0	0
FCCOP Class			B	B	A	B	G	G

PERFORMANCE

MIN SPEED

ESP External Static Pressure	(6)	Pa	19	20	8	14	19	27
Fan Power Input	(6)	W	59,8	63,0	44,8	68,1		
Air flow rate	(6)	m³/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	5,48	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	4,45	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	20	20	7	12		
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	5,03	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	7	5	7		
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	128	221		
Air flow rate	(6)	m³/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	8,02	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	6,80	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	29	15	22		
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	7,52	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	12	12	10	13		
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	227	304		
Air flow rate	(6)	m³/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	9,13	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	7,91	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	33	20	25		
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	8,89	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	13	13	16		
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	50	50	51	0
Sound Power on outlet side Lw (OD)		dB(A)	62	61	60	61		

SIZE AND WEIGHT

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.

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