

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



The new high head ducted units i-HWD2, are equipped with EC Brushless motor fan of new generation with continuous modulation of the air flow, which ensures the best 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 guarantees the operation with high levels of acoustic comfort.

### Control

ATW-EC wall mounted thermostat

Operating modes selection and fan speed control (0-10Vdc). Room air temperature probe and remote water temperature probe. ON/OFF valve unit control. Electric heater control (ATW-EC only). Configurable digital input.

EKW wall mounted thermostat (with HB/ i-HB power board)

Operating modes selection and fan speed control. Room air temperature probe and remote water temperature probe. ON/OFF or modulating valve unit control. Electric heater control. Installation in BMS (e.g. Idrorelax). Installation management of Master-Slave system up to 8 fan-coil units.

iKW wall mounted programmable thermostat with LCD screen (with HB/i-HB power board)

Programmable room thermostat with operating modes selection and fan speed control. Room air temperature probe and remote water temperature probe. ON/OFF or modulating valve unit control. Electric heater control. Installation in BMS (e.g. Idrorelax). Installation management of Master-Slave system up to 8 fan-coil units.

IR Remote control (with HB/i-HB power board)

Set-point regulation, operating mode (OFF/COOLING/HEATING/AUTO /VENTILATION) and fan speed control (Max, Med, Min, AUTO).

### Versions

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

### Features

Ducted Terminal unit for horizontal and vertical installation. Bearing structure made of thick galvanized steel sheet, resistant to rust, corrosion, chemical agents. Self-supporting and removable panels provided with holes for ceiling and wall mounting, directly from the main casing. Pre-cuts slots and prearranged holes to configure the unit upon request, to install the accessories, and to reverse the units even on - site. Discharge Flange on units.

High pressure centrifugal fan unit for ducted system.

High efficiency EC motor.

Modulating speed centrifugal fan and air flow regulation.

Energy consumption reduced by more than 50%

Highly efficient coil made of cooper pipes and aluminium fins. Standard connections on the right side; on request connections on the left side. Possibility to reverse the connections on-site. Coils tested at 30 Bar pressure, suitable to work with water at max. 15 Bar pressure. Incorporated additional coil, or additional coil section for 4 pipe systems.

EU2 efficiency flat air filters, which may be easily removed from any side of the unit (bottom, side, top) for periodic cleaning. EU3 undulated air filter section, and EU5 with bag air filter section.

Incorporated electrical heater, or electrical heater sections

Auxiliary drain pan with thermal insulation for all Horizontal versions, made of galvanized steel.

Configurations for 2 and 4 pipe Systems.

### Accessories

- Hot water coil kit
- Heating element module
- Main coil 2-way/3-way valve unit
- Additional coil 2-way/3-way valve unit
- Ductable air filter section, flat, undulated, or bag filters
- 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
- Kit i-HB powerboard for units with EC motor and IKW, EKW Controls
- 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, in combination with i(HB) Powerboard and Controls EK/EKW e IK.
- Auxiliary condensate collecting tray

i-HWD2 / DLIV-DFIV			102	202	302	402	502	602	702	802	902
<b>ELECTRICAL DATA</b>											
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
<b>2 PIPES SYSTEM CONFIGURATION</b>											
<b>ENERGY EFFICIENCY</b>											
<b>COOLING (EN14511 VALUE)</b>											
FCEER	(1)(6)	kW/kW	83	69	95	87	71	90	0	0	0
FCEER Class			B	B	A	A	B	A	E	E	E
<b>HEATING ONLY (EN14511 VALUE)</b>											
FCCOP	(2)(6)	kW/kW	96	87	112	109	91	109	0	0	0
FCCOP Class			A	A	A	A	A	A	E	E	E
<b>PERFORMANCE</b>											
<b>MIN SPEED</b>											
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)	m <sup>3</sup> /h	732	850	849	980	1294	1284	2473	2885	2854
<b>Total capacity in cooling mode</b>		kW	4,41	5,29	6,60	5,60	7,40	9,89	11,6	15,5	18,8
<b>Total Net Cooling Capacity</b>	(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			
<b>Total capacity (heating mode)</b>		kW	4,95	5,99	6,93	6,28	8,37	10,5	14,0	18,9	21,3
<b>Total Net Heating Capacity</b>	(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			
<b>MED SPEED</b>											
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)	m <sup>3</sup> /h	1077	1189	1174	1685	2044	2023	3336	3474	3427
<b>Total capacity in cooling mode</b>		kW	5,74	6,45	8,11	8,37	10,2	13,7	14,5	17,7	21,3
<b>Total Net Cooling Capacity</b>	(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			
<b>Total capacity (heating mode)</b>		kW	6,57	7,46	8,68	9,58	11,8	14,9	17,9	22,0	24,6
<b>Total Net Heating Capacity</b>	(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			
<b>MAX SPEED</b>											
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)	m <sup>3</sup> /h	1251	1299	1280	2146	2342	2299	3829	3746	3710
<b>Total capacity in cooling mode</b>		kW	6,20	6,85	8,64	9,85	11,3	15,0	15,9	18,6	22,3
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	5,89	6,56	8,33	9,11	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	7,86	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			
<b>Total capacity (heating mode)</b>		kW	7,18	7,96	9,28	11,4	13,1	16,4	19,8	23,2	25,9
<b>Total Net Heating Capacity</b>	(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	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			
<b>SIZE AND WEIGHT</b>											
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

- Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.
- Room temperature 20 °C d.b.; Hot water (in/out) 45/40 °C
- Unit in standard configuration/execution, without optional accessories.

- Values in compliance with EN14511
- Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

# HYDRONIC TERMINALS

# i-HWD2

102 - 902 6,20-22,3 kW

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

i-HWD2 / DLIO-DFIO			102	202	302	402	502	602	702	802	902
<b>ELECTRICAL DATA</b>											
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
<b>2 PIPES SYSTEM CONFIGURATION</b>											
<b>ENERGY EFFICIENCY</b>											
<b>COOLING (EN14511 VALUE)</b>											
FCEER	(1)(6)	kW/kW	83	69	95	87	71	90	0	0	0
FCEER Class			B	B	A	A	B	A	E	E	E
<b>HEATING ONLY (EN14511 VALUE)</b>											
FCCOP	(2)(6)	kW/kW	96	87	112	109	91	109	0	0	0
FCCOP Class			A	A	A	A	A	A	E	E	E
<b>PERFORMANCE</b>											
<b>MIN SPEED</b>											
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)	m <sup>3</sup> /h	732	850	849	980	1294	1284	2473	2885	2854
<b>Total capacity in cooling mode</b>		kW	4,41	5,29	6,60	5,60	7,40	9,89	11,6	15,5	18,8
<b>Total Net Cooling Capacity</b>	(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			
<b>Total capacity (heating mode)</b>		kW	4,95	5,99	6,93	6,28	8,37	10,5	14,0	18,9	21,3
<b>Total Net Heating Capacity</b>	(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			
<b>MED SPEED</b>											
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)	m <sup>3</sup> /h	1077	1189	1174	1685	2044	2023	3336	3474	3427
<b>Total capacity in cooling mode</b>		kW	5,74	6,45	8,11	8,37	10,2	13,7	14,5	17,7	21,3
<b>Total Net Cooling Capacity</b>	(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			
<b>Total capacity (heating mode)</b>		kW	6,57	7,46	8,68	9,58	11,8	14,9	17,9	22,0	24,6
<b>Total Net Heating Capacity</b>	(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			
<b>MAX SPEED</b>											
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)	m <sup>3</sup> /h	1251	1299	1280	2146	2342	2299	3829	3746	3710
<b>Total capacity in cooling mode</b>		kW	6,20	6,85	8,64	9,85	11,3	15,0	15,9	18,6	22,3
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	5,89	6,56	8,33	9,11	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	7,86	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			
<b>Total capacity (heating mode)</b>		kW	7,18	7,96	9,28	11,4	13,1	16,4	19,8	23,2	25,9
<b>Total Net Heating Capacity</b>	(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	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			
<b>SIZE AND WEIGHT</b>											
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

- Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.
- Room temperature 20 °C d.b.; Hot water (in/out) 45/40 °C
- Unit in standard configuration/execution, without optional accessories.

- Values in compliance with EN14511
- Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

i-HWD2 / DLIV-DFIV			104	204	404	504	704	804
<b>ELECTRICAL DATA</b>								
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
<b>4 PIPES SYSTEM CONFIGURATION</b>								
<b>ENERGY EFFICIENCY</b>								
<b>COOLING (EN14511 VALUE)</b>								
FCEER	(1)(6)	kW/kW	82	68	65	55	0	0
FCEER Class			B	B	B	C	E	E
<b>HEATING ONLY (EN14511 VALUE)</b>								
FCCOP	(2)(6)	kW/kW	80	65	69	49	0	0
FCCOP Class			B	B	B	C	E	E
<b>PERFORMANCE</b>								
<b>MIN SPEED</b>								
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)	m³/h	863	850	980	1294	2473	2885
<b>Total capacity in cooling mode</b>		kW	4,98	5,29	5,60	7,42	11,6	15,5
<b>Total Net Cooling Capacity</b>	(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		
<b>Total capacity (heating mode)</b>		kW	4,23	4,33	5,06	6,28	10,9	12,3
<b>Total Net Heating Capacity</b>	(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		
<b>MED SPEED</b>								
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)	m³/h	1251	1189	1685	2044	3336	3474
<b>Total capacity in cooling mode</b>		kW	6,19	6,44	8,35	10,3	14,5	17,7
<b>Total Net Cooling Capacity</b>	(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		
<b>Total capacity (heating mode)</b>		kW	5,59	5,57	7,61	9,05	13,8	14,1
<b>Total Net Heating Capacity</b>	(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		
<b>MAX SPEED</b>								
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)	m³/h	1359	1299	2146	2342	3829	3746
<b>Total capacity in cooling mode</b>		kW	6,56	6,85	9,86	11,3	15,9	18,7
<b>Total Net Cooling Capacity</b>	(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		
<b>Total capacity (heating mode)</b>		kW	5,94	5,90	9,14	9,85	15,2	15,0
<b>Total Net Heating Capacity</b>	(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		
<b>SIZE AND WEIGHT</b>								
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

- Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.
- Room temperature 20 °C d.b.; Hot water (in/out) 45/40 °C
- Unit in standard configuration/execution, without optional accessories.

- Values in compliance with EN14511
- Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

# HYDRONIC TERMINALS

# i-HWD2

102 - 902 6,20-22,3 kW

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

i-HWD2 / DLIO-DFIO			104	204	404	504	704	804
<b>ELECTRICAL DATA</b>								
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
<b>4 PIPES SYSTEM CONFIGURATION</b>								
<b>ENERGY EFFICIENCY</b>								
<b>COOLING (EN14511 VALUE)</b>								
FCEER	(1)(6)	kW/kW	82	68	65	55	0	0
FCEER Class			B	B	B	C	E	E
<b>HEATING ONLY (EN14511 VALUE)</b>								
FCCOP	(2)(6)	kW/kW	80	65	69	49	0	0
FCCOP Class			B	B	B	C	E	E
<b>PERFORMANCE</b>								
<b>MIN SPEED</b>								
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)	m³/h	863	850	980	1294	2473	2885
<b>Total capacity in cooling mode</b>		kW	4,98	5,29	5,60	7,42	11,6	15,5
<b>Total Net Cooling Capacity</b>	(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		
<b>Total capacity (heating mode)</b>		kW	4,23	4,33	5,06	6,28	10,9	12,3
<b>Total Net Heating Capacity</b>	(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		
<b>MED SPEED</b>								
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)	m³/h	1251	1189	1685	2044	3336	3474
<b>Total capacity in cooling mode</b>		kW	6,19	6,44	8,35	10,3	14,5	17,7
<b>Total Net Cooling Capacity</b>	(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		
<b>Total capacity (heating mode)</b>		kW	5,59	5,57	7,61	9,05	13,8	14,1
<b>Total Net Heating Capacity</b>	(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		
<b>MAX SPEED</b>								
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)	m³/h	1359	1299	2146	2342	3829	3746
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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		
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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	64	61		
<b>SIZE AND WEIGHT</b>								
A	(5)	mm	880	880	1280	1280	1680	1680
B	(5)	mm	605	605	605	605	605	605
H	(5)	mm	275	275	275	275	275	275
Operating weight	(5)	kg	39	40	55	57	72	74

## Notes

- 1 Room temperature 27 °C d.b./19 °C w.b.; Chilled water (in/out) 7/12 °C.
- 2 Room temperature 20 °C d.b.; Hot water (in/out) 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

**Dimensional drawing**

