HYDRONIC TERMINALS

a-HWD2

102 - 902 5,87-21,9 kW

High head ducted type terminal

a-HWD2 are the new Climaveneta ducted high head hydronic terminals. The possibility of vertical and / or horizontal installation, 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 a-HWD2 units ensures operation with excellent acoustic comfort. P.S. The picture is refered to the unit with mounted valves and plenum with spigots.

Control

PSW wall mounted controller

3 fan speeds and 3 operating modes manual switch, ON/OFF valve unit control. Remote water temperature probe.

MTW wall mounted thermostat

3 fan speeds and 3 operating modes manual switch, ON/OFF valve unit control. Room air temperature probe and remote water temperature probe.

ATW wall mounted thermostat

Operating modes selection and fan speed control (Max/Med/Min/AUTO). Room air temperature probe and remote water temperature probe. ON/OFF valve unit control. Electric heater control (ATW only). Configurable digital input. TTL serial port (Modbus RTU) for installation in BMS systems (BusAdapter required).

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.

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.

Configurations for 2 and 4 pipe Systems.

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

Incorporated electrical heater, or electrical heater sections

Fan deck including 1, 2 or 3 centrifugal fans with double air inlet plastic blades directly coupled to the electric motor. Extensive diameter of fans for higher air flow and static pressure, with low RPM for better acoustic comfort.

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

Plastic drain pan for all versions.

Terminal board IP20 "Mammoth Type" installed outside the unit. Upon request possible to supply the Terminal Board inside IP55 electrical box.

Accessories

- Hot water coil kit
- Heating element module
- 2 & 3 Way Valves for main and additional coil with ON/OFF, PWM, 0-10V or 3P Motor.
- 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
- External/Internal mixing section
- Noise level attenuator section for both air intake and supply outlets
- Section for humidifier
- Condensate drain pump
- Anti-vibration junction
- Mammoth Type terminal board kit, with IP55 electrical box
- Interface SPB Kit

a-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	34	34	43	30	31	42	0	0	0
FCEER Class			D	D	C	D	D	C	E	E	E
HEATING ONLY (EN14511 VALUE)											
FCCOP	(2)(6)	kW/kW	41	42	49	31	39	49	0	0	0
FCCOP Class			C	C	C	D	D	C	E	E	E
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	(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
7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

a-HWD2

102 - 902 5,87-21,9 kW

High head ducted type terminal

a-HWD2 / DLIO-DFIO			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	0	0	0
FCEER Class			D	D	C	D	D	C	E	E	E
HEATING ONLY (EN14511 VALUE)											
FCCOP	(2)(6)	kW/kW	41	42	49	31	39	49	0	0	0
FCCOP Class			C	C	C	D	D	C	E	E	E
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	(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
7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

a-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	33	33	30	30	0	0
FCEER Class			D	D	D	D	E	E
HEATING ONLY (EN14511 VALUE)								
FCCOP	(2)(6)	kW/kW	31	31	30	30	0	0
FCCOP Class			D	D	D	D	E	E
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)	m³/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)	m³/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)	m³/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	(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
7 Values in compliance with [REGULATION (EU) N. 2016/2281]

Certified data in EUROVENT

HYDRONIC TERMINALS

a-HWD2

102 - 902 5,87-21,9 kW

High head ducted type terminal

a-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
4 PIPES SYSTEM CONFIGURATION								
ENERGY EFFICIENCY								
COOLING (EN14511 VALUE)								
FCEER	(1)(6)	kW/kW	33	33	30	30	0	0
FCEER Class			D	D	D	D	E	E
HEATING ONLY (EN14511 VALUE)								
FCCOP	(2)(6)	kW/kW	31	31	30	30	0	0
FCCOP Class			D	D	D	D	E	E
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)	m³/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)	m³/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)	m³/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	(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
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Dimensional drawing