



## Residential cassette hydronic terminal units 1,3 - 14 kW

### Unit Description

XHDU are the models of the Climaveneta range of cassette hydronic terminal units. The latter feature a universal version and offer units with single coil, single coil with heating element or double coil. The versatility of these hydronic terminal units and the guaranteed low loss of pressure make them suitable for all types of installations. The XHDU units are registered in the EUROVENT certification programme.

### Commands

#### PSH wall controller

Thermostat, summer/winter switch.

#### PRH wall controller

ON/OFF switch with selector for 3 fan speeds.

#### PTH wall controller

ON/OFF-summer/winter switch, resistor switch, thermostat, switch for 3 fan speeds.

#### PTH2 wall controller

ON/OFF-summer/winter switch, resistor switch, thermostat, switch for 3 fan speeds, auxiliary controls

#### PCE and PCE PWM wall controller:

off/summer/winter/Auto selector switch. Room temperature control. Room temperature control. Coil temperature sensor. Three speed air flow control + Auto. Automatic summer/winter switching. Automatic ON/OFF valve control. Continuous fan speed. Window sensor. Also available: infrared remote control. With PWM version is possible modulate the valves.

### Versions

XHDU 2T	Single coil for double pipe connections.
XHDU R-2T	Single coil for double pipe connections with heater.
XHDU 4T	Double coil for four pipe connections.
XHDE 2T	Single coil for double pipe connections (with remote control)

### Features

The high efficiency, low pressure drop finned coils made from copper tubes and high exchange surface area aluminium fins are 100% tested for leaks with dried air at 30 bar.

Electrical power and control switchboard complete with electronic air flow regulator and terminal board for connection to the mains and one of the remote control units available.

Internal insulation in closed cell expanded polyethylene thick enough to limit heat loss and noise emission to a minimum.

Available with single coil for two-pipe (2T) systems or with double coil for four-pipe (4T) systems.

Every unit can have fresh air intake, the air distribution is in four directions and a remote air diffuser can be connected to the unit.

The condensate drain pump is particularly low noise and has a maximum head of 650 mm.

Auxiliary tray, standard

### Main accessories

- Interface SPB Kit
- IR receiver for CE command with remote control
- Air duct connection kit
- 2 way valve kit
- 3 way valve kit with pipes for hydronic connection



## XHDU 2T

Models		402	502	602	702	802	1103	1203
<b>Air flow rate</b>								
Max speed	m3/h	610	520	710	880	1140	1500	1820
Med speed	m3/h	420	420	500	610	820	970	1280
Min speed	m3/h	310	310	320	430	630	710	710
<b>Total output cooling capacity(1)</b>								
Max speed (1)	kW	1,98	2,68	4,33	5,02	6,16	9,51	11,1
Med speed(1)	kW	1,63	2,34	3,34	3,88	4,91	6,78	8,45
Min speed(1)	kW	1,27	1,84	2,25	2,94	4,21	5,31	5,31
<b>Sensitive output cooling capacity(1)</b>								
Max speed (1)	kW	1,64	2,04	3,18	3,74	4,59	6,48	8,25
Med speed(1)	kW	1,32	1,75	2,39	2,81	3,58	4,48	6,09
Min speed(1)	kW	1,01	1,35	1,57	2,08	3,03	3,46	3,71
Max Water flow(1)	l/h	340	462	745	863	1060	1635	1909
Max Pressure drop(1)	kPa	10	9,6	15,1	19,7	21,6	26,9	35,6
<b>Total output heating capacity(2)</b>								
Max speed (2)	kW	2,64	3,35	5,23	6,17	7,77	10,7	14
Med speed(2)	kW	2,12	2,9	3,93	4,63	6,03	7,34	10,3
Min speed(2)	kW	1,62	2,22	2,56	3,43	5,12	5,61	6,13
Max Water flow(2)	l/h	340	462	745	863	1060	1635	1909
Max Pressure drop(2)	kPa	9	8,2	11,4	17,7	15,1	23	30,6
<b>Sound pressure level(3)</b>								
Max speed (3)	dB(A)	40	36	44	50	39	44	49
Med speed(3)	dB(A)	31	31	36	40	31	31	39
Min speed(3)	dB(A)	24	24	24	32	24	25	25
<b>Sound power(3)</b>								
Max speed (3)	dB(A)	49	45	53	59	48	53	58
Med speed(3)	dB(A)	40	40	45	49	40	40	48
Min speed(3)	dB(A)	33	33	33	41	33	34	34
Water content	l	0,8	1,4	2,1	2,1	3	4	4
Max absorbed power	W	57	44	68	90	77	120	170
Max absorbed current	A	0,27	0,2	0,32	0,45	0,36	0,53	0,74
Electrical power supply	V-Ph-Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
<b>Dimension</b>								
<b>Body</b>								
L	(mm)	574	574	574	574	820	820	820
H	(mm)	275	275	275	275	303	303	303
P	(mm)	574	574	574	574	820	820	820
Weight	Kg	25	25	27	27	42	45	45

Data referred to

1 Operation in cooling mode: room temperature 27°C d.b./19°C w.b., chilled water at inlet 7°C and at outlet 12°C

2 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 50°C, with identical flow rate to that in the cooling mode

3 Noise level measured at 1 m in open field conditions

## XHDU 402÷1203

## XHDU-R 2T

Models		402	502	602	702	802	1103	1203
<b>MODELS</b>								
<b>Air flow rate</b>								
Max speed	m3/h	610	520	710	880	1140	1500	1820
Med speed	m3/h	420	420	500	610	820	970	1280
Min speed	m3/h	310	310	320	430	630	710	710
<b>Total output cooling capacity(1)</b>								
Max speed (1)	kW	1,98	2,68	4,33	5,02	6,16	9,51	11,1
Med speed(1)	kW	1,63	2,34	3,34	3,88	4,91	6,78	8,45
Min speed(1)	kW	1,27	1,84	2,25	2,94	4,21	5,31	5,31
<b>Sensitive output cooling capacity(1)</b>								
Max speed (1)	kW	1,64	2,04	3,18	3,74	4,59	6,48	8,25
Med speed(1)	kW	1,32	1,75	2,39	2,81	3,58	4,48	6,09
Min speed(1)	kW	1,01	1,35	1,57	2,08	3,03	3,46	3,71
Max Water flow(1)	l/h	340	462	745	863	1060	1635	1909
Med Water flow(1)	l/h		403	575	667	845	1166	1454
Min Water flow(1)	l/h		317	387	506	722	913	913
Max Pressure drop(1)	kPa	10	9,6	15,1	19,7	21,6	26,9	35,6
Med Pressure drop(1)	kPa		6	7,8	10,1	14,4	14,7	21,8
Min Pressure drop(1)	kPa		3,9	3,8	6,2	10,9	9,4	9,4
<b>Total output heating capacity(2)</b>								
Max speed (2)	kW	2,64	3,35	5,23	6,17	7,77	10,7	14
Med speed(2)	kW	2,12	2,9	3,93	4,63	6,03	7,34	10,3
Min speed(2)	kW	1,62	2,22	2,56	3,43	5,12	5,61	6,13
Max Water flow(2)	l/h	340	462	745	863	1060	1635	1909
Med Water flow(2)	l/h		403	575	667	845	1166	1454
Min Water flow(2)	l/h		317	387	506	722	913	913
Max Pressure drop(2)	kPa	9	8,2	11,4	17,7	15,1	23	30,6
Med Pressure drop(2)	kPa		4,6	6,2	8	9,9	12,4	18,6
Min Pressure drop(2)	kPa		3	3	4,8	6,7	7,9	7,9
<b>Sound pressure level(3)</b>								
Max speed (3)	dB(A)	40	36	44	50	39	44	49
Med speed(3)	dB(A)	31	31	36	40	31	31	39
Min speed(3)	dB(A)	24	24	24	32	24	25	25
<b>Sound power(3)</b>								
Max speed (3)	dB(A)	49	45	53	59	48	53	58
Med speed(3)	dB(A)	40	40	45	49	40	40	48
Min speed(3)	dB(A)	33	33	33	41	33	34	34
Water content	l	0,8	1,4	2,1	2,1	3	4	4
Max absorbed power	W	57	44	68	90	77	120	170
Med absorbed power	W		32	44	57	48	63	95
Min absorbed power	W		25	25	32	33	42	42
Max absorbed current	A	0,27	0,2	0,32	0,45	0,36	0,53	0,74
Med absorbed current	A		0,15	0,2	0,27	0,23	0,28	0,42
Min absorbed current	A		0,11	0,11	0,15	0,15	0,18	0,18
Electrical Heater ( for XHDU-R 2T model)	kW	1,5	1,5	2,5	2,5	3	3	3
Electrical power supply	V-Ph-Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	400V-3N~50Hz	400V-3N~50Hz	400V-3N~50Hz
<b>Dimension</b>								
<b>Body</b>								
L	(mm)	574	574	574	574	820	820	820
H	(mm)	275	275	275	275	303	303	303
P	(mm)	574	574	574	574	820	820	820
Weight	Kg	25	25	27	27	42	45	45

Data referred to

1 Operation in cooling mode: room temperature 27°C d.b./19°C w.b., chilled water at inlet 7°C and at outlet 12°C

2 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 50°C, with identical flow rate to that in the cooling mode

3 Noise level measured at 1 m in open field conditions

## XHDU 4T

Models		402	502	602	702	802	1103	1203
<b>Air flow rate</b>								
Max speed	m3/h	610	520	710	880	1140	1500	1820
Med speed	m3/h	420	420	500	610	820	970	1280
Min speed	m3/h	310	310	320	430	630	710	710
<b>Total output cooling capacity(1)</b>								
Max speed (1)	kW	2,33	2,7	3,34	3,81	6,34	7,71	8,89
Med speed(1)	kW	1,96	2,36	2,65	3,02	5,03	5,66	6,93
Min speed(1)	kW	1,51	1,85	1,85	2,36	4,14	4,52	4,52
<b>Sensitive output cooling capacity(1)</b>								
Max speed (1)	kW	1,9	1,98	2,56	2,99	4,69	5,83	6,84
Med speed(1)	kW	1,55	1,7	1,98	2,29	3,57	4,15	5,18
Min speed(1)	kW	1,15	1,31	1,34	1,75	2,96	3,25	3,25
Max Water flow(1)	l/h	401	465	574	656	1090	1327	1529
Max Pressure drop(1)	kPa	13,5	8,8	13,4	17	18,9	26,9	34,7
<b>Total output heating capacity(2)</b>								
Max speed (2)	kW	3,03	3,46	4,4	4,95	9,1	11	12,7
Med speed(2)	kW	2,54	2,02	3,46	3,97	7,19	8,1	9,98
Min speed(2)	kW	1,96	2,43	2,43	3,1	5,91	6,45	6,45
Water flow Max(2)	l/h	261	298	378	426	783	946	1091
Pressure drop Max(2)	kPa	14,5	10,8	16,6	20,5	21,4	29,9	38,8
<b>Sound pressure level(3)</b>								
Max speed (3)	dB(A)	41	36	44	50	39	44	49
Med speed(3)	dB(A)	31	31	36	40	31	31	39
Min speed(3)	dB(A)	24	24	24	32	24	25	25
<b>Sound power(3)</b>								
Max speed (3)	dB(A)	50	45	53	59	48	53	58
Med speed(3)	dB(A)	40	40	45	49	40	40	48
Min speed(3)	dB(A)	33	33	33	41	33	34	34
Water content	l	1	1,4	1,4	1,4	3	3	3
.	l	0,6	0,7	0,7	0,7	1,4	1,4	1,4
Max absorbed power	W	57	44	68	90	77	120	170
Electrical power supply	V-Ph-Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
<b>Dimension</b>								
<b>Body</b>								
L	(mm)	574	574	574	574	820	820	820
H	(mm)	275	275	275	275	303	303	303
P	(mm)	574	574	574	574	820	820	820
Weight	Kg	27	27	27	27	45	45	45

Data referred to

1 Operation in cooling mode: room temperature 27°C d.b./19°C w.b., chilled water at inlet 7°C and at outlet 12°C

2 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 70°C and at outlet 60°C

3 Noise level measured at 1 m in open field conditions

# XHDU 402:1203

## XHDE 2T

Models		402	502	602	702	802	1103	1203
<b>Air flow rate</b>								
Max speed	m3/h	610	520	710	880	1140	1500	1820
Med speed	m3/h	420	420	500	610	820	970	1280
Min speed	m3/h	310	310	320	430	630	710	710
<b>Total output cooling capacity(1)</b>								
Max speed (1)	kW	2,33	2,7	3,34	3,81	6,34	7,71	8,89
Med speed(1)	kW	1,96	2,36	2,65	3,02	5,03	5,66	6,93
Min speed(1)	kW	1,51	1,85	1,85	2,36	4,14	4,52	4,52
<b>Sensitive output cooling capacity(1)</b>								
Max speed (1)	kW	1,9	1,98	2,56	2,99	4,69	5,83	6,84
Med speed(1)	kW	1,55	1,7	1,98	2,29	3,57	4,15	5,18
Min speed(1)	kW	1,15	1,31	1,34	1,75	2,96	3,25	3,25
Max Water flow(1)	l/h	401	465	574	656	1090	1327	1529
Max Pressure drop(1)	kPa	13,5	8,8	13,4	17	18,9	26,9	34,7
<b>Total output heating capacity(2)</b>								
Max speed (2)	kW	3,03	3,46	4,4	4,95	9,1	11	12,7
Med speed(2)	kW	2,54	2,02	3,46	3,97	7,19	8,1	9,98
Min speed(2)	kW	1,96	2,43	2,43	3,1	5,91	6,45	6,45
Max Water flow(2)	l/h	261	298	378	426	783	946	1091
Max Pressure drop(2)	kPa	14,5	10,8	16,6	20,5	21,4	29,9	38,8
<b>Sound pressure level(3)</b>								
Max speed (3)	dB(A)	41	36	44	50	39	44	49
Med speed(3)	dB(A)	31	31	36	40	31	31	39
Min speed(3)	dB(A)	24	24	24	32	24	25	25
<b>Sound power(3)</b>								
Max speed (3)	dB(A)	50	45	53	59	48	53	58
Med speed(3)	dB(A)	40	40	45	49	40	40	48
Min speed(3)	dB(A)	33	33	33	41	33	34	34
Water content	l	1	1,4	1,4	1,4	3	3	3
Max absorbed power	W	57	44	68	90	77	120	170
Max absorbed current	A	0,27	0,2	0,32	0,45	0,36	0,53	0,74
Electrical power supply	V-Ph-Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
<b>Dimension</b>								
Body								
L	(mm)	574	574	574	574	820	820	820
H	(mm)	275	275	275	275	303	303	303
P	(mm)	574	574	574	574	820	820	820
Weight	Kg	27	27	27	27	45	45	45

Data referred to

1 Operation in cooling mode: room temperature 27°C d.b./19°C w.b., chilled water at inlet 7°C and at outlet 12°C

2 Operation in heating mode: room temperature 20°C d.b., hot water at inlet 50°C, with identical flow rate to that in the cooling mode

3 Noise level measured at 1 m in open field conditions

