

a-CND 0600 - 1200

**Hydronic terminal cassette with
Coanda effect 1,58 - 3,31 kW
1,58-3,31 kW**

**Version**

U - 2T	2 Pipes version
U- 4T	4 Pipes Version

Features

Casing made of galvanized sheet steel with fire resistant insulation fitted internally and externally to provide both thermal and acoustic insulation.

Intake air grid on galvanized and painted steel panel

Circular ABS air diffuser, insulated internally, manually adjustable on the horizontal plan.

5-speed electric motor inclusive of thermal switch. Fan

Low-rev radial-blade fan to maximise acoustic comfort.

Coil with corrugated aluminium fins and copper pipes, tested with dried air at 14 bar.

Switchboard with power and control terminal block with screw terminals

Set-up for fresh air intake.

Set-up for duct air distribution.

External Drain Pan

Fixing Brackets supplied as standard already mounted on the unit

Accessory

- Main coil 2-way/3-way valve unit
- Additional coil 2-way/3-way valve unit
- Kit Bus Adapter for BMS
- Fresh Air renewal connection
- Duct Connection Flange

The new cassettes a-CND Climaveneta is characterized by the air distribution with Coanda effect for which the air launch is always parallel to the ceiling, avoiding to directly invest the occupants of the room. With 5 speeds AC motor, the units are available in two versions: for two pipe installation (unit with single coil), and four pipe installation (unit with double coil)

Controls

MTW wall mounted

Fan speed slider, mode slider (OFF/summer/winter). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2 pipes installation), ON/OFF second valve unit control (winter for 4 pipes installation). Room temperature probe. Remote water temperature probe.

ATW wall mounted

Mode button (OFF/summer/winter/AUTO), fan speed button (Max/Med/Min/AUTO). Thermostat with set point regulation. ON/OFF valve unit control (summer/winter for 2 and 4 pipes installation). Control of traditional or PWM modulating valve units. Room temperature probe and water temperature probe. Digital input configurable as: window contact, economy, heating or cooling remote changeover, periodic ventilation. Configuration dip switch. TTL serial port with Modbus protocol for installation in BMS.

Remote control

In combination with (i)HB powerboard on board of the units, it's possible to have Set-point regulation, selection of functioning mode (cool, heat, dehumidify, fan), and fan speed (Max, Med, Min, AUTO). User-friendly compact remote control with fine aesthetics.

a-CND			0600	0900	1200
ELECTRICAL DATA					
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50
2 PIPES SYSTEM CONFIGURATION					
ENERGY EFFICIENCY					
COOLING (EN14511 VALUE)					
FCEER	(1)(6)	kW/kW	48	61	75
FCEER Class			E	D	D
HEATING ONLY (EN14511 VALUE)					
FCCOP	(2)(6)	kW/kW	48	60	73
FCCOP Class			F	E	D
PERFORMANCE					
MIN SPEED					
Fan Power Input	(1)	W	24,0	30,0	31,0
Air flow rate	(1)	m ³ /h	195	307	365
Total capacity in cooling mode	(1)	kW	1,19	1,90	2,38
Total Net Cooling Capacity	(1)(6)(7)	kW	1,17	1,87	2,35
Sensible capacity in cooling mode	(1)	kW	0,85	1,35	1,67
Net sensible cooling capacity	(1)(6)(7)	kW	0,83	1,32	1,64
Net latent power in cooling	(1)(6)(7)	kW	0,34	0,55	0,71
Max water flow	(1)	l/s	0,06	0,09	0,11
Pressure Drop in cooling mode	(1)	kPa	8	9	17
Total capacity (heating mode)	(2)	kW	1,18	1,88	2,31
Total Net Heating Capacity	(2)(6)	kW	1,20	1,91	2,34
Water flow in heating mode	(2)	l/s	0,06	0,09	0,11
Pressure drop in heating mode	(2)	kPa	8	8	15
Sound Pressure	(3)	dB(A)	34	34	33
Sound Power	(4)(7)	dB(A)	42	42	41
MED SPEED					
Fan Power Input	(1)	W	28,0	36,0	36,0
Air flow rate	(1)	m ³ /h	219	346	413
Total capacity in cooling mode	(1)	kW	1,32	2,10	2,64
Total Net Cooling Capacity	(1)(6)(7)	kW	1,29	2,07	2,61
Sensible capacity in cooling mode	(1)	kW	0,95	1,50	1,86
Net sensible cooling capacity	(1)(6)(7)	kW	0,92	1,46	1,82
Net latent power in cooling	(1)(6)(7)	kW	0,37	0,60	0,78
Max water flow	(1)	l/s	0,06	0,10	0,13
Pressure Drop in cooling mode	(1)	kPa	10	10	20
Total capacity (heating mode)	(2)	kW	1,30	2,07	2,56
Total Net Heating Capacity	(2)(6)	kW	1,33	2,11	2,60
Water flow in heating mode	(2)	l/s	0,06	0,10	0,12
Pressure drop in heating mode	(2)	kPa	9	9	17
Sound Pressure	(3)	dB(A)	36	37	36
Sound Power	(4)(7)	dB(A)	45	45	45
MAX SPEED					
Fan Power Input	(1)	W	37,0	51,0	51,0
Air flow rate	(1)	m ³ /h	275	451	545
Total capacity in cooling mode	(1)	kW	1,58	2,60	3,31
Total Net Cooling Capacity	(1)(6)(7)	kW	1,54	2,55	3,26
Sensible capacity in cooling mode	(1)	kW	1,14	1,87	2,34
Net sensible cooling capacity	(1)(6)(7)	kW	1,10	1,82	2,29
Net latent power in cooling	(1)(6)(7)	kW	0,44	0,73	0,97
Max water flow	(1)	l/s	0,08	0,12	0,16
Pressure Drop in cooling mode	(1)	kPa	13	14	30
Total capacity (heating mode)	(2)	kW	1,57	2,58	3,23
Total Net Heating Capacity	(2)(6)	kW	1,61	2,63	3,28
Water flow in heating mode	(2)	l/s	0,08	0,12	0,16
Pressure drop in heating mode	(2)	kPa	11	12	23
Sound Pressure	(3)	dB(A)	42	45	43
Sound Power	(4)(7)	dB(A)	51	54	51
SIZE AND WEIGHT					
A	(5)	mm	567	867	1167
B	(5)	mm	560	560	560
H	(5)	mm	265	265	265
Operating weight	(5)	kg	24	32	38

Notes:

- 1 Room temperature 27°C d.b./18,9°C w.b., Chilled water (in/out) 7°C/12°C.
 - 2 Room temperature 20°C d.b., hot water (in/out) 45°C/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 EN14511-3:2013.
 - 7 Values in compliance with [REGULATION (EU) N. 2016/2281]
- Certified data in EUROVENT

a-CND			0600	0900	1200
ELECTRICAL DATA					
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50
4 PIPES SYSTEM CONFIGURATION					
ENERGY EFFICIENCY					
COOLING (EN14511 VALUE)					
FCEER	(1)(6)	kW/kW	48	61	75
FCEER Class			E	D	D
HEATING ONLY (EN14511 VALUE)					
FCCOP	(2)(6)	kW/kW	41	53	64
FCCOP Class			F	E	E
PERFORMANCE					
MIN SPEED					
Fan Power Input	(1)	W	24,0	30,0	31,0
Air flow rate	(1)	m³/h	195	307	365
Total capacity in cooling mode	(1)	kW	1,19	1,90	2,38
Total Net Cooling Capacity	(1)(6)(7)	kW	1,17	1,87	2,35
Sensible capacity in cooling mode	(1)	kW	0,85	1,35	1,67
Net sensible cooling capacity	(1)(6)(7)	kW	0,83	1,32	1,64
Net latent power in cooling	(1)(6)(7)	kW	0,34	0,55	0,71
Max water flow	(1)	l/s	0,06	0,09	0,11
Pressure Drop in cooling mode	(1)	kPa	8	9	17
Total capacity (heating mode)	(2)	kW	1,01	1,65	2,05
Total Net Heating Capacity	(2)(6)	kW	1,03	1,68	2,08
Water flow in heating mode	(2)	l/s	0,02	0,04	0,05
Pressure drop in heating mode	(2)	kPa	2	6	9
Sound Pressure	(3)	dB(A)	34	34	33
Sound Power	(4)(7)	dB(A)	42	42	41
MED SPEED					
Fan Power Input	(1)	W	28,0	36,0	36,0
Air flow rate	(1)	m³/h	219	346	413
Total capacity in cooling mode	(1)	kW	1,32	2,10	2,64
Total Net Cooling Capacity	(1)(6)(7)	kW	1,29	2,07	2,61
Sensible capacity in cooling mode	(1)	kW	0,95	1,50	1,86
Net sensible cooling capacity	(1)(6)(7)	kW	0,92	1,46	1,82
Net latent power in cooling	(1)(6)(7)	kW	0,37	0,60	0,78
Max water flow	(1)	l/s	0,06	0,10	0,13
Pressure Drop in cooling mode	(1)	kPa	10	10	20
Total capacity (heating mode)	(2)	kW	1,10	1,81	2,27
Total Net Heating Capacity	(2)(6)	kW	1,12	1,84	2,30
Water flow in heating mode	(2)	l/s	0,03	0,04	0,06
Pressure drop in heating mode	(2)	kPa	2	7	10
Sound Pressure	(3)	dB(A)	36	37	36
Sound Power	(4)(7)	dB(A)	45	45	45
MAX SPEED					
Fan Power Input	(1)	W	37,0	51,0	51,0
Air flow rate	(1)	m³/h	275	451	545
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Max water flow	(1)	l/s	0,08	0,12	0,16
Pressure Drop in cooling mode	(1)	kPa	13	14	30
Total capacity (heating mode)	(2)	kW	1,30	2,20	2,78
Total Net Heating Capacity	(2)(6)	kW	1,33	2,25	2,83
Water flow in heating mode	(2)	l/s	0,03	0,05	0,07
Pressure drop in heating mode	(2)	kPa	3	8	13
Sound Pressure	(3)	dB(A)	42	45	43
Sound Power	(4)(7)	dB(A)	51	54	51
SIZE AND WEIGHT					
A	(5)	mm	567	867	1167
B	(5)	mm	560	560	560
H	(5)	mm	265	265	265
Operating weight	(5)	kg	26	34	40

Notes:

- 1 Room temperature 27°C d.b./18,9°C w.b., Chilled water (in/out) 7°C/12°C.
- 2 Room temperature 20°C d.b.; Hot water (in/out) 65°C/55°C; Supplementary coil 1-row.
- 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.
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