

**Terminal Cassette type, with Coanda effect and EC motor, for continuous regulation of air flow and cooling capacity 1,67 - 3,06 kW  
1,67-3,06 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.  
High efficiency EC motor.  
Modulating speed centrifugal fan and air flow regulation.  
Energy consumption reduced by more than 50%  
Plug-In Control Box, supplied standard already mounted on the unit. Easy access and maintenance of Control Box  
Unit coils guarantee high efficiency thermal exchange with low pressure drop. Finned unit coils are made of copper tubes and high exchange surface area aluminium fins. Coils are always tested for leaks with dried air at 14 bar;  
Availability to have fresh air intake, distribute the air flow in different room place thanks to air diffuser present on the unit;  
Condensate auxiliary tray standard supplied;  
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 RS485 - interface for Building Management System
- Fresh Air renewal connection
- Duct Connection Flange
- i-HB Power box

The new cassette i-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 EC motor and centrifugal fan, i-CND operates through a continuous air flow modulation, with low energy consumption and perfect comfort. The units are available in two versions: for two pipe installation (unit with single coil), and four pipe installation (unit with double coil)

**Controls****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

**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.

**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.

**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.

i-CND			0600	0900	1200
<b>ELECTRICAL DATA</b>					
Power supply		V/ph/Hz	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	98	145	175
FCEER Class			C	B	B
<b>HEATING ONLY (EN14511 VALUE)</b>					
FCCOP	(2)(6)	kW/kW	100	147	176
FCCOP Class			C	C	B
<b>PERFORMANCE</b>					
<b>MIN SPEED</b>					
Fan Power Input	(1)	W	9,00	10,0	10,0
Air flow rate	(1)	m <sup>3</sup> /h	150	230	290
<b>Total capacity in cooling mode</b>	(1)	kW	0,99	1,51	2,00
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	0,98	1,50	1,99
Sensible capacity in cooling mode	(1)	kW	0,68	1,05	1,37
Net sensible cooling capacity	(1)(6)(7)	kW	0,67	1,04	1,36
Net latent power in cooling	(1)(6)(7)	kW	0,31	0,46	0,63
Max water flow	(1)	l/s	0,05	0,07	0,10
Pressure Drop in cooling mode	(1)	kPa	6	6	12
<b>Total capacity (heating mode)</b>	(2)	kW	0,99	1,51	1,97
<b>Total Net Heating Capacity</b>	(2)(6)	kW	1,00	1,52	1,98
Water flow in heating mode	(2)	l/s	0,05	0,07	0,10
Pressure drop in heating mode	(2)	kPa	6	6	12
Sound Pressure	(3)	dB(A)	30	28	29
Sound Power	(4)(7)	dB(A)	39	37	38
<b>MED SPEED</b>					
Fan Power Input	(1)	W	14,0	12,0	15,0
Air flow rate	(1)	m <sup>3</sup> /h	220	288	373
<b>Total capacity in cooling mode</b>	(1)	kW	1,27	1,74	2,38
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	1,26	1,73	2,37
Sensible capacity in cooling mode	(1)	kW	0,89	1,22	1,65
Net sensible cooling capacity	(1)(6)(7)	kW	0,88	1,21	1,63
Net latent power in cooling	(1)(6)(7)	kW	0,38	0,52	0,73
Max water flow	(1)	l/s	0,06	0,08	0,11
Pressure Drop in cooling mode	(1)	kPa	9	7	17
<b>Total capacity (heating mode)</b>	(2)	kW	1,33	1,80	2,41
<b>Total Net Heating Capacity</b>	(2)(6)	kW	1,34	1,81	2,42
Water flow in heating mode	(2)	l/s	0,06	0,09	0,12
Pressure drop in heating mode	(2)	kPa	9	8	16
Sound Pressure	(3)	dB(A)	37	33	37
Sound Power	(4)(7)	dB(A)	46	42	46
<b>MAX SPEED</b>					
Fan Power Input	(1)	W	25,0	20,0	28,0
Air flow rate	(1)	m <sup>3</sup> /h	287	365	524
<b>Total capacity in cooling mode</b>	(1)	kW	1,67	2,09	3,06
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	1,65	2,07	3,03
Sensible capacity in cooling mode	(1)	kW	1,20	1,48	2,16
Net sensible cooling capacity	(1)(6)(7)	kW	1,18	1,46	2,13
Net latent power in cooling	(1)(6)(7)	kW	0,47	0,61	0,90
Max water flow	(1)	l/s	0,08	0,10	0,15
Pressure Drop in cooling mode	(1)	kPa	15	10	26
<b>Total capacity (heating mode)</b>	(2)	kW	1,62	2,13	3,09
<b>Total Net Heating Capacity</b>	(2)(6)	kW	1,64	2,15	3,12
Water flow in heating mode	(2)	l/s	0,08	0,10	0,15
Pressure drop in heating mode	(2)	kPa	12	9	21
Sound Pressure	(3)	dB(A)	43	38	45
Sound Power	(4)(7)	dB(A)	52	47	54
<b>SIZE AND WEIGHT</b>					
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

i-CND			0600	0900	1200
<b>ELECTRICAL DATA</b>					
Power supply		V/ph/Hz	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	98	145	175
FCEER Class			C	B	B
<b>HEATING ONLY (EN14511 VALUE)</b>					
FCCOP	(2)(6)	kW/kW	83	129	143
FCCOP Class			D	C	C
<b>PERFORMANCE</b>					
<b>MIN SPEED</b>					
Fan Power Input	(1)	W	9,00	10,0	10,0
Air flow rate	(1)	m³/h	150	230	290
<b>Total capacity in cooling mode</b>	(1)	kW	0,99	1,51	2,00
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	0,98	1,50	1,99
Sensible capacity in cooling mode	(1)	kW	0,68	1,05	1,37
Net sensible cooling capacity	(1)(6)(7)	kW	0,67	1,04	1,36
Net latent power in cooling	(1)(6)(7)	kW	0,31	0,46	0,63
Max water flow	(1)	l/s	0,05	0,07	0,10
Pressure Drop in cooling mode	(1)	kPa	6	6	12
<b>Total capacity (heating mode)</b>	(2)	kW	0,82	1,33	1,60
<b>Total Net Heating Capacity</b>	(2)(6)	kW	0,83	1,34	1,61
Water flow in heating mode	(2)	l/s	0,02	0,03	0,04
Pressure drop in heating mode	(2)	kPa	2	5	7
Sound Pressure	(3)	dB(A)	30	28	29
Sound Power	(4)(7)	dB(A)	39	37	38
<b>MED SPEED</b>					
Fan Power Input	(1)	W	14,0	12,0	15,0
Air flow rate	(1)	m³/h	220	288	373
<b>Total capacity in cooling mode</b>	(1)	kW	1,27	1,74	2,38
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	1,26	1,73	2,37
Sensible capacity in cooling mode	(1)	kW	0,89	1,22	1,65
Net sensible cooling capacity	(1)(6)(7)	kW	0,88	1,21	1,63
Net latent power in cooling	(1)(6)(7)	kW	0,38	0,52	0,73
Max water flow	(1)	l/s	0,06	0,08	0,11
Pressure Drop in cooling mode	(1)	kPa	9	7	17
<b>Total capacity (heating mode)</b>	(2)	kW	1,10	1,58	1,96
<b>Total Net Heating Capacity</b>	(2)(6)	kW	1,12	1,59	1,97
Water flow in heating mode	(2)	l/s	0,03	0,04	0,05
Pressure drop in heating mode	(2)	kPa	2	6	8
Sound Pressure	(3)	dB(A)	37	33	37
Sound Power	(4)(7)	dB(A)	46	42	46
<b>MAX SPEED</b>					
Fan Power Input	(1)	W	25,0	20,0	28,0
Air flow rate	(1)	m³/h	287	365	524
<b>Total capacity in cooling mode</b>	(1)	kW	1,67	2,09	3,06
<b>Total Net Cooling Capacity</b>	(1)(6)(7)	kW	1,65	2,07	3,03
Sensible capacity in cooling mode	(1)	kW	1,20	1,48	2,16
Net sensible cooling capacity	(1)(6)(7)	kW	1,18	1,46	2,13
Net latent power in cooling	(1)(6)(7)	kW	0,47	0,61	0,90
Max water flow	(1)	l/s	0,08	0,10	0,15
Pressure Drop in cooling mode	(1)	kPa	15	10	26
<b>Total capacity (heating mode)</b>	(2)	kW	1,34	1,88	2,51
<b>Total Net Heating Capacity</b>	(2)(6)	kW	1,37	1,90	2,54
Water flow in heating mode	(2)	l/s	0,03	0,05	0,06
Pressure drop in heating mode	(2)	kPa	3	7	12
Sound Pressure	(3)	dB(A)	43	38	45
Sound Power	(4)(7)	dB(A)	52	47	54
<b>SIZE AND WEIGHT</b>					
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.
- 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]

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