



The 4-way i-CXW cassette features a brushless synchronous electronic motor with permanent magnets, which is controlled by an inverter. The air flow can be varied continuously thus offering extreme efficiency and silent operation. The i-CXW range is available in 5 sizes for installation in 2 or 4-pipe systems. The 2-pipe version can be equipped with an integrated electrical heater. Thanks to the elegant design of the air diffuser and the wide range of controls for single or multiple connections, the i-CXW cassettes are suitable for all kinds of installations.

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

i-CXW 2T 2 Pipes Unit

i-CXW 4T 4 Pipes Unit

Features

Intake and distribution 4-way grid made from ABS, white colour RAL9003. Manually adjustable air distribution louvers on each side.

Casing made of galvanized steel with internal thermal insulation in polyethylene foam (class M1) and external anti-condensate lining.

The fan assembly, which is mounted on anti-vibrating supports, is particularly silent and efficient. The single radial fan is connected to a three phase permanent magnet brushless electronic motor that is controlled by an inverter. The air flow can be varied continuously.

Coil made of copper tubes with bonded aluminium fins for maximum heat transfer efficiency.

Control Panel made of an external box with the control electronic card with an easily accessible terminal board.

Condensate collection tray in high density ABS and built-in condensate centrifugal pump with float switch and wired to the control panel.

The units can be supplied with on-board i-HB power board to manage groups of units in Master/Slave configuration and for integration in supervision systems with the expansion module Modbus RTU - RS 485.

The units with 1 battery (2 pipe system) can be supplied with integrated electric heater.

The units can be equipped with fresh air intake and a remote air diffuser can be connected to the unit.

Accessories

- Metal diffuser painted in RAL 9003 white colour, Coanda effect
- Two or three way ON/OFF valves, with thermostatic actuator
- Integrated electric heater (2-pipes units only)
- i-HB power board for units with AC motor and EKW / IKW controls
- Kit RS485 - interface for Building Management System
- Fresh Air renewal connection
- Duct Connection Flange

i-CXW			0502	0602	0702	0802	1102
ELECTRICAL DATA							
Power supply	V/ph/Hz		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	307	319	219	346	292
FCEER Class			A	A	A	A	A
HEATING ONLY (EN14511 VALUE)							
FCCOP	(2)(6)	kW/kW	316	314	222	360	284
FCCOP Class			A	A	B	A	A
PERFORMANCE							
MIN SPEED							
Fan Power Input	(1)	W	5,37	5,72	6,57	9,96	10,7
Air flow rate	(1)	m³/h	310	310	360	630	710
Total capacity in cooling mode	(1)	kW	1,84	2,24	2,55	4,20	5,28
Total Net Cooling Capacity	(1)(6)(7)	kW	1,84	2,24	2,54	4,19	5,27
Sensible capacity in cooling mode	(1)	kW	1,35	1,57	1,80	3,03	3,69
Net sensible cooling capacity	(1)(6)(7)	kW	1,34	1,56	1,79	3,02	3,68
Net latent power in cooling	(1)(6)(7)	kW	0,49	0,67	0,75	1,17	1,59
Max water flow	(1)	l/s	0,09	0,11	0,12	0,20	0,25
Pressure Drop in cooling mode	(1)	kPa	4,8	4,5	5,7	10,5	9,0
Total capacity (heating mode)	(2)	kW	1,85	2,12	2,46	4,26	4,89
Total Net Heating Capacity	(2)(6)	kW	1,86	2,13	2,47	4,27	4,90
Water flow in heating mode	(2)	l/s	0,09	0,10	0,12	0,21	0,24
Pressure drop in heating mode	(2)	kPa	4,4	3,7	4,8	9,8	7,1
Sound Pressure	(3)	dB(A)	24	24	28	24	25
Sound Power	(4)(7)	dB(A)	33	33	37	33	34
MED SPEED							
Fan Power Input	(1)	W	7,54	10,3	21,9	17,2	31,3
Air flow rate	(1)	m³/h	380	445	610	870	1130
Total capacity in cooling mode	(1)	kW	2,16	3,05	3,87	5,14	7,71
Total Net Cooling Capacity	(1)(6)(7)	kW	2,15	3,04	3,85	5,13	7,68
Sensible capacity in cooling mode	(1)	kW	1,61	2,17	2,81	3,76	5,53
Net sensible cooling capacity	(1)(6)(7)	kW	1,60	2,16	2,79	3,74	5,50
Net latent power in cooling	(1)(6)(7)	kW	0,55	0,88	1,06	1,38	2,18
Max water flow	(1)	l/s	0,10	0,15	0,19	0,25	0,37
Pressure Drop in cooling mode	(1)	kPa	6,4	7,9	12,1	15,2	17,9
Total capacity (heating mode)	(2)	kW	2,21	2,97	3,83	5,29	7,31
Total Net Heating Capacity	(2)(6)	kW	2,22	2,98	3,85	5,31	7,34
Water flow in heating mode	(2)	l/s	0,11	0,14	0,18	0,26	0,35
Pressure drop in heating mode	(2)	kPa	5,9	6,7	10,5	14,2	14,4
Sound Pressure	(3)	dB(A)	30	34	41	30	38
Sound Power	(4)(7)	dB(A)	39	43	50	39	47
MAX SPEED							
Fan Power Input	(1)	W	16,1	31,1	61,7	33,0	108
Air flow rate	(1)	m³/h	535	710	880	1165	1770
Total capacity in cooling mode	(1)	kW	2,74	4,33	5,02	6,33	10,8
Total Net Cooling Capacity	(1)(6)(7)	kW	2,73	4,30	4,96	6,30	10,7
Sensible capacity in cooling mode	(1)	kW	2,09	3,18	3,74	4,72	7,94
Net sensible cooling capacity	(1)(6)(7)	kW	2,07	3,15	3,68	4,69	7,83
Net latent power in cooling	(1)(6)(7)	kW	0,65	1,15	1,28	1,61	2,87
Max water flow	(1)	l/s	0,13	0,21	0,24	0,30	0,52
Pressure Drop in cooling mode	(1)	kPa	9,9	14,9	19,4	22,2	33,0
Total capacity (heating mode)	(2)	kW	2,85	4,33	5,09	6,67	10,5
Total Net Heating Capacity	(2)(6)	kW	2,87	4,36	5,15	6,70	10,6
Water flow in heating mode	(2)	l/s	0,14	0,21	0,25	0,32	0,51
Pressure drop in heating mode	(2)	kPa	9,2	12,9	17,3	21,3	27,2
Sound Pressure	(3)	dB(A)	38	45	51	39	48
Sound Power	(4)(7)	dB(A)	47	54	60	48	57
SIZE AND WEIGHT							
A	(5)	mm	575	575	575	820	820
B	(5)	mm	575	575	575	820	820
H	(5)	mm	275	275	275	303	303
Operating weight	(5)	kg	22	24	24	36	39

Notes

- Room temperature 27°C d.b./18,9°C w.b., Chilled water (in/out) 7°C/12°C.
- Room temperature 20°C d.b., hot water (in/out) 45°C/40°C.
- 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.
- Sound power on the basis of measurements made in compliance with ISO 3741 and Eurovent 8/2.
- 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

0502 - 1104

i-CXW			0504	0604	0704	0804	1104
ELECTRICAL DATA							
Power supply		V/ph/Hz	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	309	295	202	354	273
FCEER Class			A	A	A	A	A
HEATING ONLY (EN14511 VALUE)							
FCCOP	(2)(6)	kW/kW	362	244	164	454	254
FCCOP Class			A	B	B	A	B
PERFORMANCE							
MIN SPEED							
Fan Power Input	(1)	W	5,37	5,72	6,57	9,96	10,7
Air flow rate	(1)	m³/h	310	310	360	630	710
Total capacity in cooling mode	(1)	kW	1,85	2,09	2,37	4,29	4,97
Total Net Cooling Capacity	(1)(6)(7)	kW	1,85	2,09	2,36	4,28	4,96
Sensible capacity in cooling mode	(1)	kW	1,34	1,49	1,70	3,08	3,51
Net sensible cooling capacity	(1)(6)(7)	kW	1,33	1,48	1,69	3,07	3,50
Net latent power in cooling	(1)(6)(7)	kW	0,51	0,60	0,67	1,21	1,46
Max water flow	(1)	l/s	0,09	0,10	0,11	0,21	0,24
Pressure Drop in cooling mode	(1)	kPa	4,8	3,9	5,0	10,9	8,1
Total capacity (heating mode)	(2)	kW	2,13	1,73	1,92	5,40	4,57
Total Net Heating Capacity	(2)(6)	kW	2,14	1,74	1,92	5,41	4,58
Water flow in heating mode	(2)	l/s	0,05	0,04	0,05	0,13	0,11
Pressure drop in heating mode	(2)	kPa	4,9	2,8	3,4	9,2	5,3
Sound Pressure	(3)	dB(A)	24	24	28	24	25
Sound Power	(4)(7)	dB(A)	33	33	37	33	34
MED SPEED							
Fan Power Input	(1)	W	7,54	10,3	21,9	17,2	31,3
Air flow rate	(1)	m³/h	380	445	610	870	1130
Total capacity in cooling mode	(1)	kW	2,17	2,82	3,53	5,27	7,16
Total Net Cooling Capacity	(1)(6)(7)	kW	2,16	2,81	3,51	5,26	7,13
Sensible capacity in cooling mode	(1)	kW	1,60	2,04	2,62	3,83	5,20
Net sensible cooling capacity	(1)(6)(7)	kW	1,59	2,03	2,60	3,81	5,17
Net latent power in cooling	(1)(6)(7)	kW	0,57	0,78	0,91	1,44	1,96
Max water flow	(1)	l/s	0,10	0,13	0,17	0,25	0,34
Pressure Drop in cooling mode	(1)	kPa	6,4	6,8	10,2	15,9	15,6
Total capacity (heating mode)	(2)	kW	2,50	2,19	2,64	6,64	6,24
Total Net Heating Capacity	(2)(6)	kW	2,51	2,20	2,66	6,66	6,27
Water flow in heating mode	(2)	l/s	0,06	0,05	0,06	0,16	0,15
Pressure drop in heating mode	(2)	kPa	6,5	4,3	6,0	13,2	9,1
Sound Pressure	(3)	dB(A)	30	34	41	30	38
Sound Power	(4)(7)	dB(A)	39	43	50	39	47
MAX SPEED							
Fan Power Input	(1)	W	16,1	31,1	61,7	33,0	108
Air flow rate	(1)	m³/h	535	710	880	1165	1770
Total capacity in cooling mode	(1)	kW	2,76	3,93	4,53	6,51	9,86
Total Net Cooling Capacity	(1)(6)(7)	kW	2,75	3,90	4,47	6,48	9,76
Sensible capacity in cooling mode	(1)	kW	2,08	2,95	3,46	4,83	7,40
Net sensible cooling capacity	(1)(6)(7)	kW	2,06	2,92	3,40	4,80	7,29
Net latent power in cooling	(1)(6)(7)	kW	0,68	0,98	1,07	1,68	2,46
Max water flow	(1)	l/s	0,13	0,19	0,22	0,31	0,47
Pressure Drop in cooling mode	(1)	kPa	10,0	12,5	16,1	23,3	28,0
Total capacity (heating mode)	(2)	kW	3,16	2,88	3,23	8,21	8,22
Total Net Heating Capacity	(2)(6)	kW	3,18	2,91	3,29	8,24	8,33
Water flow in heating mode	(2)	l/s	0,08	0,07	0,08	0,20	0,20
Pressure drop in heating mode	(2)	kPa	9,8	6,9	8,5	19,0	14,8
Sound Pressure	(3)	dB(A)	38	45	51	39	48
Sound Power	(4)(7)	dB(A)	47	54	60	48	57
SIZE AND WEIGHT							
A	(5)	mm	575	575	575	820	820
B	(5)	mm	575	575	575	820	820
H	(5)	mm	275	275	275	303	303
Operating weight	(5)	kg	22	24	24	36	39

Notes

- Room temperature 27°C d.b./18,9°C w.b., Chilled water (in/out) 7°C/12°C.
- Room temperature 20°C d.b.; Hot water (in/out) 65°C/55°C; Supplementary coil 1-row.
- 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.
- Sound power on the basis of measurements made in compliance with ISO 3741 and Eurovent 8/2.
- Unit in standard configuration/execution, without optional accessories.
- Values in compliance with EN14511
- Values in compliance with [REGULATION (EU) N. 2016/2281]

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Dimensional drawing

