

# UCP-DX

71÷302

## Close control air-conditioning unit

Direct expansion  
Condenserless  
Indoor installation

Capacity from 22,4 to 92,5 kW



The **UCP-DX** air-cooled direct expansion air conditioners are precision units (Close Control) with a high sensible capacity. They are designed for indoor installation, for automatic temperature and humidity control and air filtration in industrial, commercial and medical technological environments. Available in twelve different models which can be combined with the remote condensers from the **CE-X** range, they can be customised thanks to a wide range of options and accessories. The **UCP-DX** units are characterised by a single- or dual-cooling compressor with internal heat exchanger with a large surface area, and are therefore ideal for use in data processing centres, telecommunications rooms, and control and processing rooms, with either a downward or upward air outlet, with the inlet respectively at either the top or bottom or front of the unit. Their meticulous design and production, strong painted structure and the use of tested components offer guaranteed reliability, durability and ease of maintenance.

### functions and features



### available configurations

UCP-DX	142	<sup>(1)</sup> M3
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- (1) SUPPLY:
- ▶ **M3** Downward supply
  - ▶ **M5** Upward supply

CLOSE CONTROL

accessories

- ▶ Condensate drain pump
- ▶ Hot gas post-heating coil
- ▶ Hot water post-heating coil
- ▶ Motorised air outlet shutter
- ▶ Flood detector
- ▶ 9 kW electric heaters double stage
- ▶ 18 kW electric heaters double stage
- ▶ High efficiency air filter F5
- ▶ Hot gas by pass
- ▶ 4 kg/h immerse electrode steam humidifier
- ▶ 5 kg/h immerse electrode steam humidifier
- ▶ Washable 5 kg/h immerse electrode steam humidifier
- ▶ 8 kg/h immerse electrode steam humidifier
- ▶ Washable 8 kg/h immerse electrode steam humidifier
- ▶ 13 kg/h immerse electrode steam humidifier
- ▶ Washable 13 kg/h immerse electrode steam humidifier
- ▶ Soundproofing with acoustically lined panels
- ▶ Front air intake plenum
- ▶ Humidity sensor
- ▶ Phase monitor
- ▶ Plenum for air supply on three sides
- ▶ Plenum for air supply on three sides
- ▶ Air side dirty filters differential pressure switch
- ▶ Outlet air temperature probe
- ▶ Height-adjustable supporting frame with duct 300<H<500mm
- ▶ Height-adjustable supporting frame 300<H<500mm
- ▶ Height-adjustable supporting frame with duct 500<H<700mm
- ▶ Height-adjustable supporting frame 500<H<700mm
- ▶ RS485 remote communication serial port
- ▶ Solenoid valve for liquid line

Key to symbols:

- Accessories supplied separately.

technical data

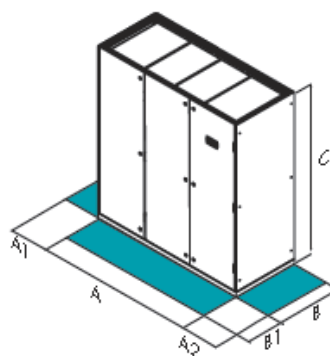
Sizes			71	81	91	101	121	142	151	162	182	202	242	302
▶ Cooling capacity	(1)	kW	22,4	24,2	27,7	33,1	36,9	48,5	45,0	48,8	56,6	65,4	74,2	92,5
Sensible cooling capacity		kW	21,2	22,2	25,6	31,8	34,9	45,5	44,5	47,0	54,0	61,2	72,6	80,5
Total input		kW	5,83	6,23	7,08	8,09	9,32	12,37	11,77	12,56	14,4	16,89	19,08	24,3
Number and type of compressors		-	1 SCROLL				2 SCROLL		1 SCROLL	2 SCROLL				
Type of fan		-	PLUGFAN											
Air flow rate		l/s	1736	1736	2153	2583	2778	3611	3611	3889	4444	5000	6111	6472
Max. working static pressure	(2)	Pa	500	500	400	550	520	530	500	450	440	330	400	400
Sound pressure level	(3)	dB(A)	64	64	64	65	65	67	67	67	68	68	73	73
Power supply		V/Ph/Hz	400/3/50											

Data referred to the following conditions:

PRELIMINARY DATA

- (1) Ambient air 24°C D.B./ 17,1 °C W.B.; condensing temperature 45°C
- (2) With standard EC fans
- (3) The sound levels refer to unit with an outlet underneath, at full loads, in the rated testing conditions. The sound pressure level refers to a distance of 1 m from the outer surface of the unit operating in an open field.

dimensions and functional spaces



Sizes		71	81	91	101	121	142	151	162	182	202	242	302
length (A)	mm	1050	1050	1050	1450	1450	1850	1850	1850	2250	2250	2650	2650
Width (B)	mm	780	780	780	780	780	780	780	780	780	780	780	780
Height (C)	mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
▶ (A1)	mm	500	500	500	500	500	500	500	500	500	500	500	500
(B1)	mm	500	500	500	500	500	500	500	500	500	500	500	500
(B2)	mm	700	700	700	700	700	700	700	700	700	700	700	700

The above data refer to standard units.

# UCP-WC

71÷302

## Close control air-conditioning unit

Direct expansion  
Water cooled  
Indoor installation

Capacity from 23,9 to 98,6 kW



The **UCP-WC** water-cooled direct expansion air conditioners are precision units (Close Control) with a high sensible capacity. They are designed for indoor installation, for automatic temperature and humidity control and air filtration in industrial, commercial and medical technological environments. Available in twelve different models, they can be customised thanks to a wide range of options and accessories. The UCP-WC units are characterised by a single or dual-cooling compressor with internal heat exchanger with a large surface area, and are therefore ideal for use in data processing centres, telecommunications rooms, and control and processing rooms, where they permit either a downward or upward air outlet, with the inlet respectively at either the top or bottom or front of the unit. Their meticulous design and production, strong painted structure and the use of tested components offer guaranteed reliability, durability and ease of maintenance.

### functions and features



### available configurations

UCPWC	142	<sup>(1)</sup> M3
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- (1) SUPPLY:
- ▶ **M3** Downward supply
  - ▶ **M5** Upward supply

accessories

- ▶ Condensate drain pump
- ▶ Hot gas post-heating coil
- ▶ Hot water post-heating coil
- ▶ Motorised air outlet shutter
- ▶ Flood detector
- ▶ 9 kW electric heaters double stage
- ▶ 18 kW electric heaters double stage
- ▶ High efficiency air filter F5
- ▶ Hot gas by pass
- ▶ 4 kg/h immerse electrode steam humidifier
- ▶ 5 kg/h immerse electrode steam humidifier
- ▶ Washable 5 kg/h immerse electrode steam humidifier
- ▶ 8 kg/h immerse electrode steam humidifier
- ▶ Washable 8 kg/h immerse electrode steam humidifier
- ▶ 13 kg/h immerse electrode steam humidifier
- ▶ Washable 13 kg/h immerse electrode steam humidifier
- ▶ Soundproofing with acoustically lined panels
- ▶ Front air intake plenum
- ▶ Humidity sensor
- ▶ Phase monitor
- ▶ Plenum for air supply on three sides
- ▶ Plenum for air supply on three sides
- ▶ Air side dirty filters differential pressure switch
- ▶ Outlet air temperature probe
- ▶ Height-adjustable supporting frame with duct 300<H<500mm
- ▶ Height-adjustable supporting frame 300<H<500mm
- ▶ Height-adjustable supporting frame with duct 500<H<700mm
- ▶ Height-adjustable supporting frame 500<H<700mm
- ▶ RS485 remote communication serial port
- ▶ Solenoid valve for liquid line

Key to symbols:

- Accessories supplied separately.

technical data

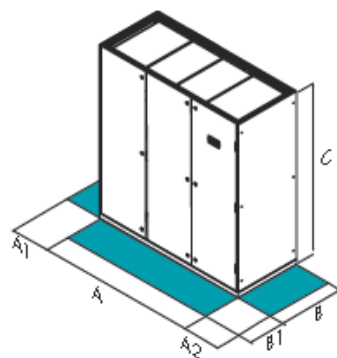
Sizes		71	81	91	101	121	142	151	162	182	202	242	302
▶ Cooling capacity	(1) kW	23,9	25,6	29,4	35,1	39,1	51,1	47,7	51,6	59,9	68,8	79	99
Sensible cooling capacity	kW	22,3	23,0	26,9	33,3	35,8	47,0	45,9	48,2	57,1	64,5	75	87
Total input	kW	6,14	5,54	6,23	7,09	8,31	11,1	10,5	11,1	12,8	15,1	17,2	21,8
Number and type of compressors	-	1 SCROLL				2 SCROLL 1 SCROLL			2 SCROLL				
Type of fan	-	PLUGFAN											
Air flow rate	V/s	1736	1736	2153	2583	2778	3611	3611	3889	4444	5000	6111	6472
Max. working static pressure	Pa	500	500	400	550	520	530	500	450	440	330	400	400
Sound pressure level	(2) dB(A)	64	64	64	65	65	67	67	67	68	68	73	73
Power supply	V/Ph/Hz	400/3/50											

Data referred to the following conditions:

PRELIMINARY DATA

- (1) Ambient air 24°C DB./17.1°C WB.; relative humidity 50%; external heat exchanger water = 30/35°C; standard static pressure 50 Pa
- (2) The sound levels refer to units with an outlet underneath, at full loads, in the rated testing conditions. The sound pressure level refers to a distance of 1 m from the outer surface of the unit operating in an open field.

dimensions and functional spaces



Sizes		71	81	91	101	121	142	151	162	182	202	242	302
Length (A)	mm	1050	1090	1090	1450	1490	1850	1850	1890	2250	2250	2690	2690
Width (B)	mm	780	780	780	780	780	780	780	780	780	780	780	780
Height (C)	mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
▶ (B1)	mm	500	500	500	500	500	500	500	500	500	500	500	500
(B1)	mm	500	500	500	500	500	500	500	500	500	500	500	500
(B2)	mm	700	700	700	700	700	700	700	700	700	700	700	700

The above data refer to standard units.

CLOSE CONTROL

# UCP-CW

81÷322

## Close control air-conditioning unit

Direct expansion  
With chilled water  
Indoor installation

Capacity from 30,6 to 114 kW



The **UCP-CW** chilled water air conditioners are precision units (Close Control) with a high sensible capacity.

They are designed for indoor installation, for automatic temperature and humidity control and air filtration in industrial, commercial and medical technological environments. Available in ten different models with three different air flows each, they can be customised thanks to a wide range of options and accessories.

The UCP-CW units are characterised by a conditioning coil with a large surface area, and are therefore ideal for use in data processing centres, telecommunications rooms, and control and processing rooms, where they permit a downward or upward air outlet, with the inlet respectively at either the top or bottom of the unit.

Their meticulous design and production, strong painted structure and the use of tested components offer guaranteed reliability, durability and ease of maintenance.

## functions and features



## available configurations

UCP-CW	142	<sup>(1)</sup> M3
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- (1) SUPPLY:
- ▶ **M3** Downward supply
  - ▶ **M5** Upward supply

CLOSE CONTROL

accessories

- ▶ Condensate drain pump
- ▶ Hot water postheating coil
- ▶ Standard electronic version
- ▶ Motorised air outlet shutter
- ▶ Flood detector
- ▶ 9 kW electric heaters double stage
- ▶ 18 kW electric heaters double stage
- ▶ Standard air filter
- ▶ High efficiency air filter F5
- ▶ 4 kg/h immerse electrode steam humidifier
- ▶ 5 kg/h immerse electrode steam humidifier
- ▶ Washable 5 kg/h immerse electrode steam humidifier
- ▶ 8 kg/h immerse electrode steam humidifier
- ▶ Washable 8 kg/h immerse electrode steam humidifier
- ▶ 13 kg/h immerse electrode steam humidifier
- ▶ Washable 13 kg/h immerse electrode steam humidifier
- ▶ Steel mesh filter on water side
- ▶ Soundproofing with acoustically lined panels
- ▶ Front air intake plenum
- ▶ Humidity sensor
- ▶ Plenum for air supply on three sides
- ▶ Plenum for air supply on three sides
- ▶ Air side dirty filters differential pressure switch
- ▶ Outlet air temperature probe
- ▶ Height-adjustable supporting frame with duct 300<H<500mm
- ▶ Height-adjustable supporting frame 300<H<500mm
- ▶ Height-adjustable supporting frame with duct 500<H<700mm
- ▶ Height-adjustable supporting frame 500<H<700mm
- ▶ RS485 remote communication serial port
- ▶ Balancing valve
- ▶ Manual cutoff valve on system water connections
- ▶ Motoroperated shutoff valve on system water connections
- ▶ Temperature sensor on exchanger inlet

Key to symbols:

- Accessories supplied separately.

technical data

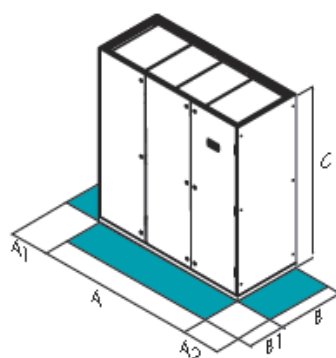
Sizes		81	101	142	162	182	202	242	292	302	322
▶ Cooling capacity	(1) kW	30,6	38,8	46,8	53,4	64,8	73,9	80,3	90,2	96,7	114
Sensible cooling capacity	kW	27,1	32,4	40,1	44,2	55,8	61,4	70,1	75,6	85,0	96,7
Total input	kW	0,41	0,41	0,82	0,82	2,19	2,19	2,19	2,19	2,50	2,50
Type of fan	-	PLUGFAN									
Air flow rate	V/s	2083	2083	2778	2778	3889	3889	5000	5000	6472	6472
Max. working static pressure	Pa	400	350	520	470	450	400	330	280	400	350
Sound pressure level	(2) dB(A)	63	63	68	68	69	69	72	72	74	74
Power supply	V/Ph/Hz	400/3/50									

Data referred to the following conditions:

PRELIMINARY DATA

- (1) Inlet water 7°C and outlet water 12°C; ambient air 24°C D.B./17,1°C W.B.; relative humidity 80%; standard static pressure 50 Pa
- (2) Sound levels refer to units with full load under nominal test conditions. The sound pressure is measured at 1 m from the external surface of the unit in open field conditions.

dimensions and functional spaces



Sizes		81	101	142	162	182	202	242	292	302	322
Length (A)	mm	1050	1050	1450	1450	1850	1850	2250	2250	2650	2650
Width (B)	mm	780	780	780	780	780	780	780	780	780	780
Height (C)	mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
▶ (A1)	mm	500	500	500	500	500	500	500	500	500	500
(B1)	mm	500	500	500	500	500	500	500	500	500	500
(B2)	mm	700	700	700	700	700	700	700	700	700	700

The above data refer to standard units.