

NCD Air handling units



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Features

- 24 sizes of central air handling units with double panelling with panel thickness of 50 mm
- Support structure realised in aluminium alloy sections and a large choice of panels.
- Wide range of sections and components to satisfy all plant engineering requirements
- Double intake centrifugal fans with forward or reverse blades.
- PLUG FAN type fan with Inverter regulation, able to adapt to the most varied system requirements.

Main Features

Structure:

- In aluminium sections with rounded edges both internally and externally allowing greater cleanliness
- New panelling and gaskets, able to guarantee reduced seepage in compliance with the

- EN1886 Standard
- Reduction of noise emission thanks to the use of material with high sound-absorption power.
- Small dimensions and contained height.

Internal components:

- New high-efficiency heat exchangers with small pressure drops
- Mixing chamber with three dampers
- The configurations for the mixing chambers with three dampers are the following:
 - two upper dampers and an internal one for recirculation;
 - two front dampers and a horizontal one for recirculation (for overlapping control units);
 - two lateral internal dampers and an internal for recirculation (configuration for expulsion and non-ducted fresh air intake)

Large availability of filters:

- Filters with large surfaces to reduce the pressure drops and increase the duration
- Cell pre-filters
- Roll filters
- Bag filters
- Absolute filters
- Activated carbon filters
- Germicidal lamp
- New efficient drop eliminator in PVC
- New heat recoverers with high heat exchange

Electric components

- Electronic regulation available able to optimise the performance and simplify installation of the control unit itself
- New high performance selection software.

Accessories

Wide range of accessories among which:

- Technical rooms

Accessories for air intake/exhaust sections:

- flange;
- blank panel (to be perforated with care by the customer);
- anti-vibration sheet on the intake/flow vents (with or without damper) with earth cable;
- aluminium grille (for internal dampers only);

- manual command on the dampers;
- proportional servo-control;
- proportional servo-control with spring return;
- pedestrian grill on the floor dampers.

Accessories for the fan-motor sections:

- Damper on the flow vent;
- overpressure damper;
- micro switch on the inspection hatch;

Accessories common to several sections:

- Spot light with window with 24V bulb (the installer must envision the 24V power supply);
- manometer with dial;
- pressure switch;
- instruments-probes holder GJ 1/4" double sleeve;
- floor reinforced with non-slip sheet steel.

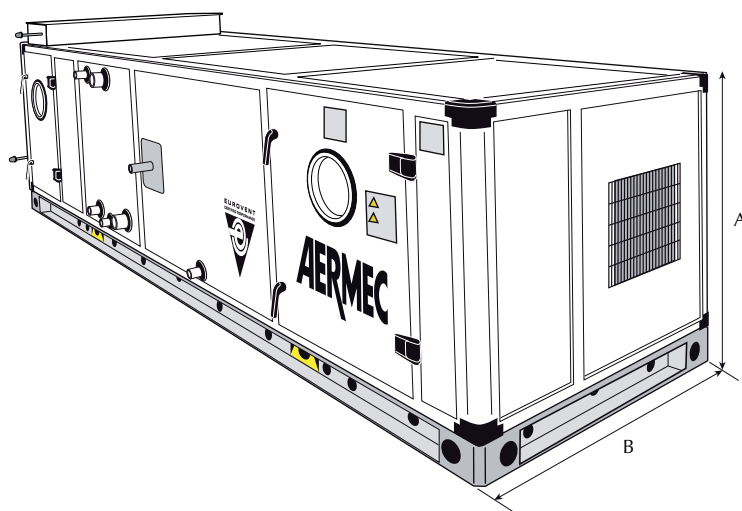
Technical data

	Air flow rate m ³ /h	Coil section m ²
NCD 1	1.134	0,13
NCD 2	1.958	0,22
NCD 3	2.390	0,27
NCD 4	3.132	0,35
NCD 5	3.823	0,42
NCD 6	4.307	0,48
NCD 7	5.257	0,58
NCD 8	6.207	0,69
NCD 9	8.019	0,89
NCD 10	9.477	1,05
NCD 11	11.548	1,28
NCD 12	14.213	1,58

	Air flow rate m ³ /h	Coil section m ²
NCD 13	16.978	1,89
NCD 14	19.742	2,19
NCD 15	25.761	2,86
NCD 16	30.772	3,42
NCD 17	37.139	4,13
NCD 18	47.187	4,80
NCD 19	49.235	5,47
NCD 20	55.283	6,14
NCD 21	61.331	6,81
NCD 22	67.379	7,49
NCD 23	73.427	8,16
NCD 24	79.475	8,83

The performance refers to an air speed through the coils equal to 2.5 m/s.

Dimensional data (mm)



	Section A	Section B
NCD 1	645	735
NCD 2	645	1055
NCD 3	645	1215
NCD 4	805	1055
NCD 5	805	1215
NCD 6	965	1055
NCD 7	965	1215
NCD 8	965	1375
NCD 9	965	1695
NCD 10	1130	1695
NCD 11	1130	2015
NCD 12	1285	2015

	Section A	Section B
NCD 13	1285	2335
NCD 14	1285	2655
NCD 15	2085	2015
NCD 16	2085	2335
NCD 17	2405	2335
NCD 18	2405	2655
NCD 19	2405	2975
NCD 20	2405	3295
NCD 21	2405	3615
NCD 22	2405	3935
NCD 23	2405	4255
NCD 24	2405	4575