

# NCD

# Air handling



- **Maximum installation flexibility**
- **EC fan Plug-fan**
- **Large range of capacities.**



## FEATURES

- 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.

## Structure

- In aluminium sections;
- 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
- 3-damper mixing chamber.
- 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 expansion 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

### 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;
- Damper on the flow vent;
- 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.

## PERFORMANCE SPECIFICATIONS

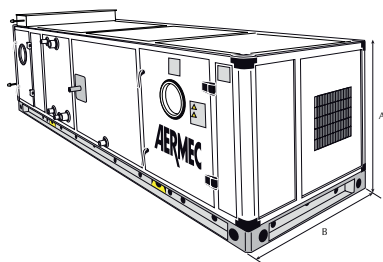
	Air flow rate m <sup>3</sup> /h	Section heating coil m <sup>2</sup>
NCD 1	1134	0,13
NCD 2	1958	0,22
NCD 3	2390	0,27
NCD 4	3132	0,35
NCD 5	3823	0,42
NCD 6	4307	0,48
NCD 7	5257	0,58
NCD 8	6207	0,69
NCD 9	8019	0,89
NCD 10	9477	1,05
NCD 11	11548	1,28
NCD 12	14213	1,58
NCD 13	16978	1,89
NCD 14	19742	2,19
NCD 15	25761	2,86
NCD 16	30772	3,42
NCD 17	37139	4,13
NCD 18	47187	4,80
NCD 19	49235	5,47
NCD 20	55283	6,14
NCD 21	61331	6,81
NCD 22	67379	7,49
NCD 23	73427	8,16
NCD 24	79475	8,83

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

Height with base	EXT		1054		1214		1374		1694		
	INT		620	780	940	1100	1260		1740	1900	
645	524	410	NCD1	NCD1A	NCD2	NCD2	NCD3C	NCD4B	NCD5B	NCD6B	NCD6D
			1370-1640 m <sup>3</sup> /h	1880-2260 m <sup>3</sup> /h	2350-2820 m <sup>3</sup> /h	2350-2820 m <sup>3</sup> /h	3390-4070 m <sup>3</sup> /h	3890-4670 m <sup>3</sup> /h	4380-5250 m <sup>3</sup> /h	4860-5840 m <sup>3</sup> /h	5330-6400 m <sup>3</sup> /h
805	684	570	NCD1B	NCD3A	NCD4	NCD5	NCD6A	NCD7A	NCD8A	NCD8C	NCD8F
			1970-2360 m <sup>3</sup> /h	2720-3260 m <sup>3</sup> /h	3400-4080 m <sup>3</sup> /h	4150-4980 m <sup>3</sup> /h	4900-5870 m <sup>3</sup> /h	5620-6740 m <sup>3</sup> /h	6320-7590 m <sup>3</sup> /h	7020-8430 m <sup>3</sup> /h	7700-9240 m <sup>3</sup> /h
965	844	730	NCD2A	NCD4A	NCD6	NCD7	NCD8	NCD8D	NCD9	NCD9C	NCD9F
			2580-3090 m <sup>3</sup> /h	3550-4260 m <sup>3</sup> /h	4440-5330 m <sup>3</sup> /h	5420-6500 m <sup>3</sup> /h	6400-7680 m <sup>3</sup> /h	7350-8820 m <sup>3</sup> /h	8270-9920 m <sup>3</sup> /h	9180-11020 m <sup>3</sup> /h	10070-12090 m <sup>3</sup> /h
1285	1004	1050	NCD3B	NCD5A	NCD6E	NCD8B	NCD8H	NCD9A	NCD10	NCD10C	NCD11
			3180-3820 m <sup>3</sup> /h	4390-5270 m <sup>3</sup> /h	5490-6580 m <sup>3</sup> /h	6700-8030 m <sup>3</sup> /h	7910-9490 m <sup>3</sup> /h	9080-10890 m <sup>3</sup> /h	10210-12250 m <sup>3</sup> /h	11340-13610 m <sup>3</sup> /h	12440-14930 m <sup>3</sup> /h
1285	1530	1050	NCD6C	NCD7B	NCD8G	NCD9E	NCD10A	NCD10F	NCD11A	NCD12	
			5220-6270 m <sup>3</sup> /h	6530-7830 m <sup>3</sup> /h	7970-9560 m <sup>3</sup> /h	9410-11290 m <sup>3</sup> /h	10800-12960 m <sup>3</sup> /h	12150-14580 m <sup>3</sup> /h	13500-16200 m <sup>3</sup> /h	14810-17770 m <sup>3</sup> /h	
2085	2170	2330	NCD8E	NCD9B	NCD10B	NCD10G	NCD11D	NCD12A	NCD12C		
			7570-9090 m <sup>3</sup> /h	9240-11090 m <sup>3</sup> /h	10910-13100 m <sup>3</sup> /h	12530-15040 m <sup>3</sup> /h	14100-16920 m <sup>3</sup> /h	15660-18800 m <sup>3</sup> /h	17180-20610 m <sup>3</sup> /h		
2085	2330	2170	NCD10D	NCD11B	NCD12B	NCD13A	NCD13D	NCD14B			
			11790-14150 m <sup>3</sup> /h	13920-16710 m <sup>3</sup> /h	15990-19190 m <sup>3</sup> /h	17990-21580 m <sup>3</sup> /h	19980-23980 m <sup>3</sup> /h	21920-26300 m <sup>3</sup> /h			
2405	2330	2170	NCD13B	NCD14A	NCD14E	NCD15					
			19440-23330 m <sup>3</sup> /h	21870-26250 m <sup>3</sup> /h	24300-29160 m <sup>3</sup> /h	26650-31980 m <sup>3</sup> /h					
2405	2330	2170	NCD15D	NCD15G							
			28620-34350 m <sup>3</sup> /h	31390-37670 m <sup>3</sup> /h							
2405	2330	2170	NCD16B								
			33760-40510 m <sup>3</sup> /h								

	EXT	2334	2654	2974														
Height with base	INT	2220	3500															
645	524	410																
805	684	570	NCD9D															
			9200-11040 m <sup>3</sup> /h															
965	844	730	NCD10E		NCD11C													
			12030-14440 m <sup>3</sup> /h		13990-16790 m <sup>3</sup> /h													
1285	1004	1050	NCD11E		NCD12D		NCD13C											
			14860-17830 m <sup>3</sup> /h		17280-20730 m <sup>3</sup> /h		19700-23640 m <sup>3</sup> /h											
			NCD13		NCD14		NCD14C		NCD15B									
			17690-21230 m <sup>3</sup> /h		20570-24680 m <sup>3</sup> /h		23450-28140 m <sup>3</sup> /h		26330-31590 m <sup>3</sup> /h									
1530	1530	1530	NCD13E		NCD14D		NCD15C		NCD15E		NCD16A							
			20520-24620 m <sup>3</sup> /h		23860-28630 m <sup>3</sup> /h		27200-32640 m <sup>3</sup> /h		30540-36650 m <sup>3</sup> /h		33880-40660 m <sup>3</sup> /h							
			NCD15A		NCD15F		NCD16C		NCD17A		NCD17D		NCD18B					
			26180-31410 m <sup>3</sup> /h		30440-36530 m <sup>3</sup> /h		34700-41640 m <sup>3</sup> /h		38970-46760 m <sup>3</sup> /h		43230-51870 m <sup>3</sup> /h		47490-56990 m <sup>3</sup> /h					
2085	2170	2170	NCD16		NCD16D		NCD17C		NCD18C		NCD19A		NCD20A		NCD21A		NCD21C	
			31840-38200 m <sup>3</sup> /h		37020-44430 m <sup>3</sup> /h		42210-50650 m <sup>3</sup> /h		47390-56870 m <sup>3</sup> /h		52570-63090 m <sup>3</sup> /h		57760-69310 m <sup>3</sup> /h		62940-75530 m <sup>3</sup> /h		68130-81750 m <sup>3</sup> /h	
2405	2330	2330	NCD17		NCD18		NCD19		NCD20		NCD21		NCD22		NCD23		NCD24	
			37500-45000 m <sup>3</sup> /h		43600-52320 m <sup>3</sup> /h		49710-59650 m <sup>3</sup> /h		55810-66980 m <sup>3</sup> /h		61920-74300 m <sup>3</sup> /h		68030-81630 m <sup>3</sup> /h		74130-88960 m <sup>3</sup> /h		80240-96280 m <sup>3</sup> /h	
			NCD17B		NCD18A		NCD19B		NCD20B		NCD21B		NCD22A		NCD23A		NCD24A	
			40330-48390 m <sup>3</sup> /h		46890-56270 m <sup>3</sup> /h		53460-64150 m <sup>3</sup> /h		60030-72030 m <sup>3</sup> /h		66590-79910 m <sup>3</sup> /h		73160-87790 m <sup>3</sup> /h		79730-95670 m <sup>3</sup> /h		86290-103550 m <sup>3</sup> /h	

## DIMENSIONS



	Section A (mm)	Section B (mm)
NCD1	645	735
NCD2	645	1055
NCD3	645	1215
NCD4	805	1055
NCD5	805	1215
NCD6	965	1055
NCD7	965	1215
NCD8	965	1375
NCD9	965	1695
NCD10	1130	1695
NCD11	1130	2015
NCD12	1285	2015
NCD13	1285	2335
NCD14	1285	2655
NCD15	2085	2015
NCD16	2085	2335
NCD17	2405	2335
NCD18	2405	2655
NCD19	2405	2975
NCD20	2405	3295
NCD21	2405	3615
NCD22	2405	3935
NCD23	2405	4255
NCD24	2405	4575

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