

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;
- 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
- 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 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

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

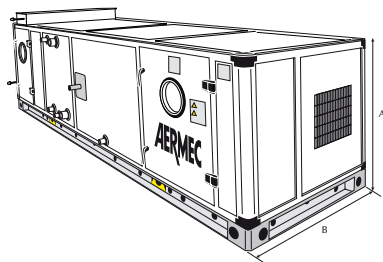
	Air flow rate m ³ /h	Section heating coil m ²
NCD 1	1134	0,13
NCD 2	1958	0,22
NCD 3	2390	0,27
NCD 4	3132	0,35
NCD 5	3823	0,42
NCD 6	4307	0,48
NCD 7	5257	0,58
NCD 8	6207	0,69
NCD 9	8019	0,89
NCD 10	9477	1,05
NCD 11	11548	1,28
NCD 12	14213	1,58
NCD 13	16978	1,89
NCD 14	19742	2,19
NCD 15	25761	2,86
NCD 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.

	EXT		734	894	1054	1214	1374	1534	1694	1854	2014
Height with base		INT	620	780	940	1100	1260	1420	1580	1740	1900
			NCD1	NCD1A	NCD2	NCD2	NCD3C	NCD4B	NCD5B	NCD6B	NCD6D
645	524	410	1370-1640 m ³ /h	1880-2260 m ³ /h	2350-2820 m ³ /h	2350-2820 m ³ /h	3390-4070 m ³ /h	3890-4670 m ³ /h	4380-5250 m ³ /h	4860-5840 m ³ /h	5330-6400 m ³ /h
			NCD1B	NCD3A	NCD4	NCD5	NCD6A	NCD7A	NCD8A	NCD8C	NCD8F
805	684	570	1970-2360 m ³ /h	2720-3260 m ³ /h	3400-4080 m ³ /h	4150-4980 m ³ /h	4900-5870 m ³ /h	5620-6740 m ³ /h	6320-7590 m ³ /h	7020-8430 m ³ /h	7700-9240 m ³ /h
			NCD2A	NCD4A	NCD6	NCD7	NCD8	NCD8D	NCD9	NCD9C	NCD9F
965	844	730	2580-3090 m ³ /h	3550-4260 m ³ /h	4440-5330 m ³ /h	5420-6500 m ³ /h	6400-7680 m ³ /h	7350-8820 m ³ /h	8270-9920 m ³ /h	9180-11020 m ³ /h	10070-12090 m ³ /h
			NCD3B	NCD5A	NCD6E	NCD8B	NCD8H	NCD9A	NCD10	NCD10C	NCD11
1125	1004	890	3180-3820 m ³ /h	4390-5270 m ³ /h	5490-6580 m ³ /h	6700-8030 m ³ /h	7910-9490 m ³ /h	9080-10890 m ³ /h	10210-12250 m ³ /h	11340-13610 m ³ /h	12440-14930 m ³ /h
				NCD6C	NCD7B	NCD8G	NCD9E	NCD10A	NCD10F	NCD11A	NCD12
1285	1164	1050		5220-6270 m ³ /h	6530-7830 m ³ /h	7970-9560 m ³ /h	9410-11290 m ³ /h	10800-12960 m ³ /h	12150-14580 m ³ /h	13500-16200 m ³ /h	14810-17770 m ³ /h
					NCD8E	NCD9B	NCD10B	NCD10G	NCD11D	NCD12A	NCD12C
1445	1324	1210			7570-9090 m ³ /h	9240-11090 m ³ /h	10910-13100 m ³ /h	12530-15040 m ³ /h	14100-16920 m ³ /h	15660-18800 m ³ /h	17180-20610 m ³ /h
						NCD10D	NCD11B	NCD12B	NCD13A	NCD13D	NCD14B
1765	1644	1530				11790-14150 m ³ /h	13920-16710 m ³ /h	15990-19190 m ³ /h	17990-21580 m ³ /h	19980-23980 m ³ /h	21920-26300 m ³ /h
								NCD13B	NCD14A	NCD14E	NCD15
2085	1964	1850						19440-23330 m ³ /h	21870-26250 m ³ /h	24300-29160 m ³ /h	26650-31980 m ³ /h
										NCD15D	NCD15G
2405	2284	2170								28620-34350 m ³ /h	31390-37670 m ³ /h
											NCD16B
2565	2444	2330									33760-40510 m ³ /h

	EXT		2334	2654	2974	3294	3614	3934	4254	4574
Height with base	INT		2220	2540	2860	3180	3500	3820	4140	4460
645	524	410								
805	684	570	NCD9D 9200-11040 m ³ /h							
965	844	730	NCD10E		NCD11C 12030-14440 13990-16790 m ³ /h m ³ /h					
1125	1004	890	NCD11E		NCD12D		NCD13C 14860-17830 17280-20730 19700-23640 m ³ /h m ³ /h m ³ /h			
1285	1164	1050	NCD13		NCD14		NCD14C		NCD15B 17690-21230 20570-24680 23450-28140 26330-31590 m ³ /h m ³ /h m ³ /h m ³ /h	
1445	1324	1210	NCD13E		NCD14D		NCD15C		NCD15E NCD16A 20520-24620 23860-28630 27200-32640 30540-36650 33880-40660 m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h	
1765	1644	1530	NCD15A		NCD15F		NCD16C		NCD17A NCD17D NCD18B 26180-31410 30440-36530 34700-41640 38970-46760 43230-51870 47490-56990 m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h	
2085	1964	1850	NCD16		NCD16D		NCD17C		NCD18C NCD19A NCD20A NCD21A NCD21C 31840-38200 37020-44430 42210-50650 47390-56870 52570-63090 57760-69310 62940-75530 68130-81750 m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h	
2405	2284	2170	NCD17		NCD18		NCD19		NCD20 NCD21 NCD22 NCD23 NCD24 37500-45000 43600-52320 49710-59650 55810-66980 61920-74300 68030-81630 74130-88960 80240-96280 m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h	
2565	2444	2330	NCD17B		NCD18A		NCD19B		NCD20B NCD21B NCD22A NCD23A NCD24A 40330-48390 46890-56270 53460-64150 60030-72030 66590-79910 73160-87790 79730-95670 86290- m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h m ³ /h 103550 m ³ /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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