

NCD Air handling units



Aermec

is a company of the Giordano Riello International Group, which participates in the program Eurovent. Products are listed on the site www.eurovent-certification.com



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 m2
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
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	4,8
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.

Technical Data

		SEZ B								
SEZ A		734	894	1054	1214	1374	1534	1694	1854	2014
height with Stand	height without Stand	620	780	940	1100	1260	1420	1580	1740	1900
645	525	NCD1 1370-1640 m³/h	NCD1A 1880-2260 m³/h	NCD2 2350-2820 m³/h	NCD3 2870-3450 m³/h	NCD3C 3390-4070 m³/h	NCD4B 3890-4670 m³/h	NCD5B 4380-5250 m³/h	NCD6B 4860-5840 m³/h	NCD6D 5330-6400 m³/h
805	685	NCD1B 1970-2360 m³/h	NCD3A 2720-3260 m³/h	NCD4 3400-4080 m³/h	NCD5 4150-4980 m³/h	NCD6A 4900-5870 m³/h	NCD7A 5620-6740 m³/h	NCD8A 6320-7590 m³/h	NCD8C 7020-8430 m³/h	NCD8F 7700-9240 m³/h
965	845	NCD2A 2580-3090 m³/h	NCD4A 3550-4260 m³/h	NCD6 4440-5330 m³/h	NCD7 5420-6500 m³/h	NCD8 6400-7680 m³/h	NCD8D 7350-8820 m³/h	NCD9 8270-9920 m³/h	NCD9C 9180-11020 m³/h	NCD9F 10070-12090 m³/h
1125	1005	NCD3B 3180-3820 m³/h	NCD5A 4390-5270 m³/h	NCD6E 5490-6580 m³/h	NCD8B 6700-8030 m³/h	NCD8H 7910-9490 m³/h	NCD9A 9080-10890 m³/h	NCD10 10210-12250 m³/h	NCD10C 11340-13610 m³/h	NCD11 12440-14930 m³/h
1285	1165		NCD6C 5220-6270 m³/h	NCD7B 6530-7830 m³/h	NCD8G 7970-9560 m³/h	NCD9E 9410-11290 m³/h	NCD10A 10800-12960 m³/h	NCD10F 12150-14580 m³/h	NCD11A 13500-16200 m³/h	NCD12 14810-17770 m³/h
1445	1325			NCD8E 7570-9090 m³/h	NCD9B 9240-11090 m³/h	NCD10B 10910-13100 m³/h	NCD10G 12530-15040 m³/h	NCD11D 14100-16920 m³/h	NCD12A 15660-18800 m³/h	NCD12C 17180-20610 m³/h
1765	1645				NCD10D 11790-14150 m³/h	NCD11B 13920-16710 m³/h	NCD12B 15990-19190 m³/h	NCD13A 17990-21580 m³/h	NCD13D 19980-23980 m³/h	NCD14B 21920-26300 m³/h
2085	1965						NCD13B 19440-23330 m³/h	NCD14A 21870-26250 m³/h	NCD14E 24300-29160 m³/h	NCD15 26650-31980 m³/h
2405	2285								NCD15D 28620-34350 m³/h	NCD15G 31390-37670 m³/h
2565	2445									NCD16B 33760-40510 m³/h

		SEZ B							
SEZ A		2334	2654	2974	3294	3614	3934	4254	4574
height with Stand	height without Stand	2220	2540	2860	3180	3500	3820	4140	4460
645	525								
805	685	NCD9D 9200-11040 m³/h							
965	845	NCD10E 12030-14440 m³/h	NCD11C 13990-16790 m³/h						
1125	1005	NCD11E 14860-17830 m³/h	NCD12D 17280-20730 m³/h	NCD13C 19700-23640 m³/h					
1285	1165	NCD13 17690-21230 m³/h	NCD14 20570-24680 m³/h	NCD14C 23450-28140 m³/h	NCD15B 26330-31590 m³/h				
1445	1325	NCD13E 20520-24620 m³/h	NCD14D 23860-28630 m³/h	NCD15C 27200-32640 m³/h	NCD15E 30540-36650 m³/h	NCD16A 33880-40660 m³/h			
1765	1645	NCD15A 26180-31410 m³/h	NCD15F 30440-36530 m³/h	NCD16C 34700-41640 m³/h	NCD17A 38970-46760 m³/h	NCD17D 43230-51870 m³/h	NCD18B 47490-56990 m³/h		
2085	1965	NCD16 31840-38200 m³/h	NCD16D 37020-44430 m³/h	NCD17C 42210-50650 m³/h	NCD18C 47390-56870 m³/h	NCD19A 52570-63090 m³/h	NCD20A 57760-69310 m³/h	NCD21A 62940-75530 m³/h	NCD21C 68130-81750 m³/h
2405	2285	NCD17 37500-45000 m³/h	NCD18 43600-52320 m³/h	NCD19 49710-59650 m³/h	NCD20 55810-66980 m³/h	NCD21 61920-74300 m³/h	NCD22 68030-81630 m³/h	NCD23 74130-88960 m³/h	NCD24 80240-96280 m³/h
2565	2445	NCD17B 40330-48390 m³/h	NCD18A 46890-56270 m³/h	NCD19B 53460-64150 m³/h	NCD20B 60030-72030 m³/h	NCD21B 66590-79910 m³/h	NCD22A 73160-87790 m³/h	NCD23A 79730-95670 m³/h	NCD24A 86290-103550 m³/h

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

Dimensional (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	1.130	1695
NCD 11	1.130	2015
NCD 12	1.285	2015
NCD 13	1.285	2335
NCD 14	1.285	2655
NCD 15	2.085	2015
NCD 16	2.085	2335
NCD 17	2.405	2335
NCD 18	2.405	2655
NCD 19	2.405	2975
NCD 20	2.405	3295
NCD 21	2.405	3615
NCD 22	2.405	3935
NCD 23	2.405	4255
NCD 24	2405	4575