NCD

Air handling units

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

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

ACCESSOIRES

- **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.

		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 m^3/h	NCD1A 1880-2260 m^3/h	NCD2 2350-2820 m^3/h	NCD3 2870-3450 m^3/h	NCD3C 3390-4070 m^3/h	NCD4B 3890-4670 m^3/h	NCD5B 4380-5250 m^3/h	NCD6B 4860-5840 m^3/h	NCD6D 5330-6400 m^3/h
805	685	NCD1B 1970-2360 m^3/h	NCD3A 2720-3260 m^3/h	NCD4 3400-4080 m^3/h	NCD5 4150-4980 m^3/h	NCD6A 4900-5870 m^3/h	NCD7A 5620-6740 m^3/h	NCD8A 6320-7590 m^3/h	NCD8C 7020-8430 m^3/h	NCD8F 7700-9240 m^3/h
965	845	NCD2A 2580-3090 m^3/h	NCD4A 3550-4260 m^3/h	NCD6 4440-5330 m^3/h	NCD7 5420-6500 m^3/h	NCD8 6400-7680 m^3/h	NCD8D 7350-8820 m^3/h	NCD9 8270-9920 m^3/h	NCD9C 9180-11020 m^3/h	NCD9F 10070-12090 m^3/h
1125	1005	NCD3B 3180-3820 m^3/h	NCD5A 4390-5270 m^3/h	NCD6E 5490-6580 m^3/h	NCD8B 6700-8030 m^3/h	NCD8H 7910-9490 m^3/h	NCD9A 9080-10890 m^3/h	NCD10 10210-12250 m^3/h	NCD10C 11340-13610 m^3/h	NCD11 12440-14930 m^3/h
1285	1165		NCD6C 5220-6270 m^3/h	NCD7B 6530-7830 m^3/h	NCD8G 7970-9560 m^3/h	NCD9E 9410-11290 m^3/h	NCD10A 10800-12960 m^3/h	NCD10F 12150-14580 m^3/h	NCD11A 13500-16200 m^3/h	NCD12 14810-17770 m^3/h
1445	1325			NCD8E 7570-9090 m^3/h	NCD9B 9240-11090 m^3/h	NCD10B 10910-13100 m^3/h	NCD10G 12530-15040 m^3/h	NCD11D 14100-16920 m^3/h	NCD12A 15660-18800 m^3/h	NCD12C 17180-20610 m^3/h
1765	1645				NCD10D 11790-14150 m^3/h	NCD11B 13920-16710 m^3/h	NCD12B 15990-19190 m^3/h	NCD13A 17990-21580 m^3/h	NCD13D 19980-23980 m^3/h	NCD14B 21920-26300 m^3/h
2085	1965						NCD13B 19440-23330 m^3/h	NCD14A 21870-26250 m^3/h	NCD14E 24300-29160 m^3/h	NCD15 26650-31980 m^3/h
2405	2285								NCD15D 28620-34350 m^3/h	NCD15G 31390-37670 m^3/h
2565	2445									NCD16B 33760-40510 m^3/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 m^3/h							
965	845	NCD10E 12030-14440 m^3/h	NCD11C 13990-16790 m^3/h						
1125	1005	NCD11E 14860-17830 m^3/h	NCD12D 17280-20730 m^3/h	NCD13C 19700-23640 m^3/h					
1285	1165	NCD13 17690-21230 m^3/h	NCD14 20570-24680 m^3/h	NCD14C 23450-28140 m^3/h	NCD15B 26330-31590 m^3/h				
1445	1325	NCD13E 20520-24620 m^3/h	NCD14D 23860-28630 m^3/h	NCD15C 27200-32640 m^3/h	NCD15E 30540-36650 m^3/h	NCD16A 33880-40660 m^3/h			
1765	1645	NCD15A 26180-31410 m^3/h	NCD15F 30440-36530 m^3/h	NCD16C 34700-41640 m^3/h	NCD17A 38970-46760 m^3/h	NCD17D 43230-51870 m^3/h	NCD18B 47490-56990 m^3/h		
2085	1965	NCD16 31840-38200 m^3/h	NCD16D 37020-44430 m^3/h	NCD17C 42210-50650 m^3/h	NCD18C 47390-56870 m^3/h	NCD19A 52570-63090 m^3/h	NCD20A 57760-69310 m^3/h	NCD21A 62940-75530 m^3/h	NCD21C 68130-81750 m^3/h
2405	2285	NCD17 37500-45000 m^3/h	NCD18 43600-52320 m^3/h	NCD19 49710-59650 m^3/h	NCD20 55810-66980 m^3/h	NCD21 61920-74300 m^3/h	NCD22 68030-81630 m^3/h	NCD23 74130-88960 m^3/h	NCD24 80240-96280 m^3/h
2565	2445	NCD17B 40330-48390 m^3/h	NCD18A 46890-56270 m^3/h	NCD19B 53460-64150 m^3/h	NCD20B 60030-72030 m^3/h	NCD21B 66590-79910 m^3/h	NCD22A 73160-87790 m^3/h	NCD23A 79730-95670 m^3/h	NCD24A 86290-103550 m^3/h

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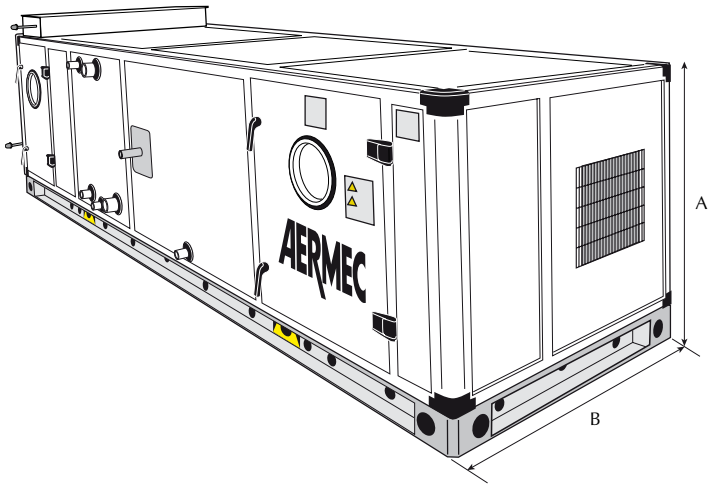
DIMENSIONAL



	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	1.130	1695
NCD11	1.130	2015
NCD12	1.285	2015
NCD13	1.285	2335
NCD14	1.285	2655
NCD15	2.085	2015
NCD16	2.085	2335
NCD17	2.405	2335
NCD18	2.405	2655
NCD19	2.405	2975
NCD20	2.405	3295
NCD21	2.405	3615
NCD22	2.405	3935
NCD23	2.405	4255
NCD24	2405	4575

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