

The Features You Require

The NDB product line offers a wide variety of configuration options.

Choose from R410A, Chilled Water, Hot Water, or Steam to create the cooling/heating package your job requires.

One inch double wall construction with double sloped poly drain pans or flat stainless steel with anti-microbial coating contributes to improved IAQ results.

Optional Field-Installed Accessories

- Condensate overflow switch
- Discharge mounted Electric Heat
- Return Air Plenum
- Outside Air Damper
- Electric Reheat for Dehumidification (coming soon!)



Promises Made, Promises Kept

Magic Aire’s world class customer support and operations delivers on time every time, with 99.8% on time delivery.

Premium Vertical Air Handling Unit



When so much depends on your equipment.

Magic Aire manufactures the NDB product in Wichita Falls, TX. Our facility is registered both ISO 9001 and ISO 14001, achieving international recognition for quality processes and environmental responsibility. See website for certification dates.

Magic Aire is a member of AHRI and participates in the organization’s voluntary performance verification programs.



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Field-Installed Electric Heat Accessory—Optional



Field-Installed Plenum Accessory with Outside Air Damper—Optional

NDB

A Better Solution For a Quieter, More Comfortable Space

Comfort is so much more than temperature. Magic Aire’s NDB is a low sound, energy efficient air handling unit providing multiple options for comfort conditioning and fan control. The NDB is a perfect fit for classrooms, assisted living, condominiums and all quality living spaces.

Precise Load Matching

Need to create a single zone VAV system? With electronically commutated motor technology you can match your load and save more energy!

With your choice of either five discreet speeds or true variable speed fan control it is easier than ever to achieve your comfort goals. Allows optimization of system for humidity control and occupant comfort while minimizing sound levels.



Direct Drive ECM Technology



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It Only Seems Like Magic!!

To learn more about Magic Aire air handlers and to download our literature and software, please visit our website or contact your local sales representative.



Applications

- Classrooms
- Condominiums
- Nursing homes
- Assisted Living
- Open Office space

Simple Maintenance

- All service from the front
- No side clearance required
- Slide-out blower and coil
- Hinged removable access door with integral electrical disconnect (option)
- Belt-less blower
- Hinged, no-tool filter access
- Quarter turn latches on all access doors

Features

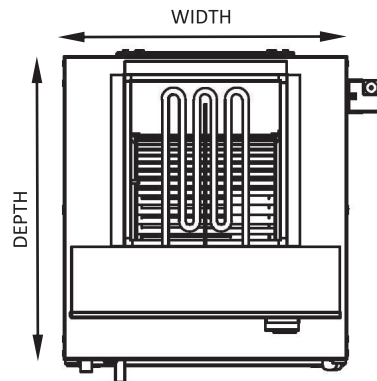
- Vertical or rear horizontal discharge (or convertible)
- Double wall construction standard
- Powder coat finish with 500 hour salt spray rating
- Optional Return Air Plenum

Space Saving Design

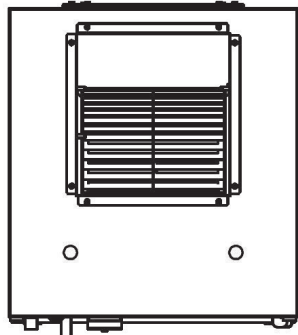
- Small footprint
- Front connections and access

Indoor Air Quality

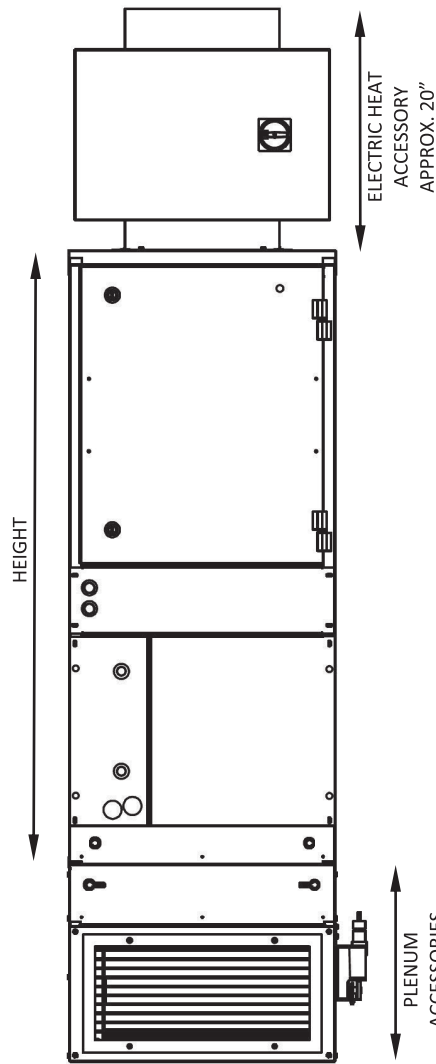
- Double sloped poly drain pan
- 2" MERV 8 filter option
- 4" MERV 13 filter option in return air plenum accessory
- Optional anti-microbial coating on inner liners



TOP VIEW



TOP VIEW
(shown less heater)

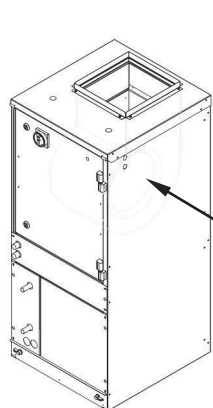


FRONT VIEW

Product Dimensions (inches) (unit less plenum, electric heat)				
NDB Model	Depth	Width	Height	
08/12	25.0	22.2	51.0	
16	25.0	25.2	57.5	
20	26.8	29.6	60.0	
30	32.8	43.1	85.0	
40		55.0		

Product Line Capacity Range (reference software for published values)		
Model	Nominal CFM	*Available ESP (in w.g.)
NDB08	800	1.2
NDB12	1200	0.9
NDB16	1600	1.6
NDB20	2000	0.8
NDB30	3000	1.6
NDB40	4000	0.8

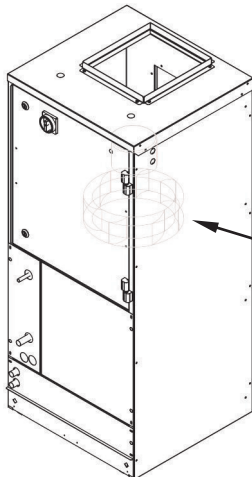
* with cooling coil, heating coil and MERV 8 filter. 08 & 12 with FC fan, 16 & 20 with plenum fan.



NDB08/12

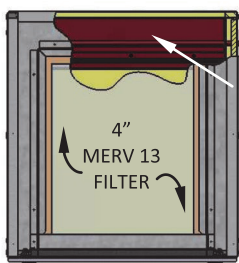
Fan System Options

Forward-Curved Fan for quiet, efficient operation



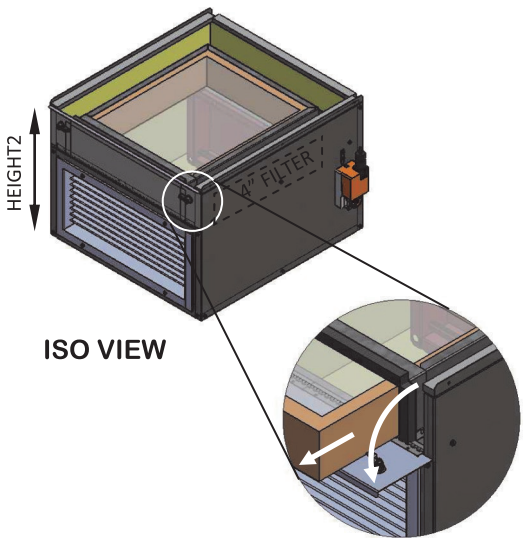
NDB16/20

Plenum and Forward-Curved Fan options



TOP VIEW

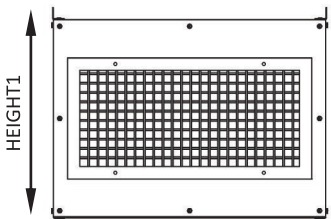
DAMPER ACTUATOR
OA DAMPER



ISO VIEW

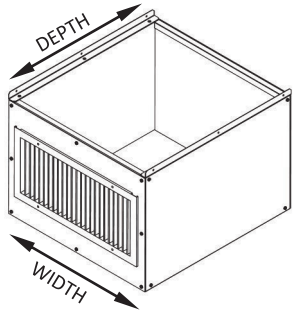
Plenum Accessory
With 4" Filter and 30% OA Damper Options

Tool-less filter service



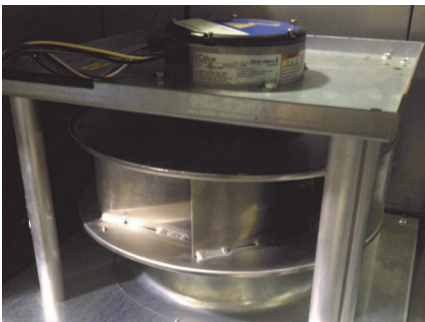
FRONT VIEW

Plenum Accessory
With Return Grille Option



ISO VIEW

Plenum Dimensions (inches)				
NDB Size	Depth	Width	Height1	Height2
08/12	25	22.2	16	20
16	25	25.2	20	20
20	26.8	29.6	20	20
30	32.8	43.1	24	
40	32.8	55.0	24	



Plenum Fan with Integral ECM Motor

Energy Saving Technologies

Blower Speed Control Options

- Multi-speed—5ea programmed speeds, 3ea operational speeds selected at commissioning
- Variable speed—Controlled by BAS signal (0-10VDC or 4-20mA)
- Variable speed—Door-mounted manual potentiometer

Flexible hot water coil options:

- 2-row and 3-row coils
- Multiple fin spacing options
- Higher capacity with low entering water temps
- Better compatibility with condensing boilers and geothermal heat pump applications

Product Certification



AHRI 430 Central Station Air Handlers



UL 1995 / CSA 22.2 No. 236