

MODEL DAHH

DX OR CHILLED WATER

DOUBLE SKIN AIR HANDLING UNIT

CAPACITY RANGE FROM

39,000 to 1,590,000 BTUH

1,300 TO 53,000 CFM



EN 1886 : Air Handling Units - Mechanical performance
EN 13053 : Air Handling Units - Rating and performance
for units, components and sections

Find our product performance
rating on EUROVENT website



OPTIONS :

- 1" or 2" PU-Insulated Sandwich Panels
- Heat Pipe for Dehumidification Applications
- Heater
- Medium/ Hepa filter
- Mixing Box
- Plug Fan

APPLICATIONS :

- Dedicated Outdoor Air System (DOAS)
for IAQ improvement
- Office Buildings
- Hospitals/Operating Theaters
- Schools/Universities
- Clean Rooms
- Food/Pharmaceutical Factories
- Etc.



Heat Pipe :

- Energy-saving Dehumidification Equipment**
- Remove humidity from air with NO external energy needed
- Maintenance-free-No moving part
- Licensed from Heat Pipe Technology (U.S.A)

UNI-Aire[®]
Air Conditioning Experts

Features

Casing

The corners and frame has been designed by bearing in mind the air tight and cold bridge of the construction. All panels are tightly fitted on rigid frame. The casing are put on the base frame with frame height vary according to the size of casing.

Panels can be 1" or 2" thick with injected polyurethane foam insulation. The outer wall is made of galvanized steel painted with baked polyester powder paint. The inner wall shall be galvanized steel.

Cooling Coil

Uni-Aire's expertise in coil manufacturing is a great advantage for choosing our AHU. The coils are available both in DX and Chilled-water applications. Each coil is constructed from aluminum fins and mechanically expanded into the copper tubes. Fin spacing is available from 6 fins per inch to 12 fins per inch depending on requirement. All coils are pressurized tested under water at 350 psig.

Blower & Drive

Standard Fan is Forward-curved double inlet and is constructed of Galvanized iron sheet and statically and dynamically balanced to ensure smooth performance and quiet operation. Backward-curved wheels are also available for special requirements.

Filters

Standard 1" thick washable aluminum panel air filters are included. Separated Medium or HEPA air filters are available upon request.

Guide Line Selection

- Step 1: Choose whether the system is Chilled Water or DX**
Step 2: Determine the design air flow, cooling capacity, and external static
Step 3: Choose Panel thickness (1" or 2")
Step 4: Other options upon customer's request (HEPA, Heatpipes, Heater, Mixing Box, etc.)

SPECIFICATION FOR AIRHANDLING UNIT MODEL : DAHH												
MODEL DAHH	UNIT	01	02	03	04	05	06	07	08	09	10	11
Nominal Cooling Capacity	BTU/Hr	39,000	60,000	90,000	120,000	150,000	187,500	228,000	255,000	300,000	390,000	462,000
Capacity	kW	11.4	17.6	26.4	35.2	44.0	55.0	66.8	74.7	87.9	114.3	135.4
Air Flow	cfm	1,300	2,000	3,000	4,000	5,000	6,250	7,600	8,500	10,000	13,000	15,400
External Static	in.wg.	1.20	1.20	1.20	1.20	1.20	2.00	2.00	2.00	2.00	2.00	2.00
COIL DATA												
Coil Type	inch	Plate Fin Coil : Aluminium Fin / Copper Tube										
Face Area	sq.ft.	2.64	4.03	6.11	8.13	10.00	12.64	15.31	17.19	20.00	26.25	31.60
Row / Fin	-	4 Rows / 12 FPI										
BLOWER SET												
Blower Type	-	Centrifugal Forward Curve : Belt Drive										
Motor Power Output	HP / Pole	2HP/4Pole	2HP/4Pole	3HP/4Pole	4HP/4Pole	5.5HP/4Pole	7.5HP/4Pole	10HP/4Pole	10HP/4Pole	10HP/4Pole	15HP/4Pole	15HP/4Pole
Power Supply	V./Ph./Hz.	380/3/5										
FILTER SET												
Pre Filter	-	G4 (EN779 Standard)										
Medium Filter	pcs.	F8 (EN779 Standard)										
OVERALL DIMENSION												
Width	mm.	850	1,100	1,500	1,400	1,600	1,700	2,020	1,800	2,020	2,020	2,300
Height	mm.	900	900	900	1,130	1,130	1,250	1,520	1,520	1,520	1,900	2,050
Length	mm.	2,300	2,300	2,300	2,400	2,400	2,500	2,500	2,700	2,700	2,900	3,135

SPECIFICATION FOR AIRHANDLING UNIT MODEL : DAHH												
MODEL DAHH	UNIT	12	13	14	15	16	17	18	19	20	21	22
Nominal Cooling Capacity	BTU/Hr	555,000	645,000	720,000	810,000	930,000	1,065,000	1,155,000	1,260,000	1,365,000	1,500,000	1,590,000
Capacity	kW	162.7	189.0	211.0	237.4	272.6	312.1	338.5	369.3	400.1	439.6	466.0
Air Flow	cfm	18,500	21,500	24,000	27,000	31,000	35,500	38,500	42,000	45,500	50,000	53,000
External Static	in.wg.	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
COIL DATA												
Coil Type	inch	Plate Fin Coil : Aluminium Fin / Copper Tube										
Face Area	sq.ft.	37.92	43.75	48.61	54.44	62.22	72.22	77.78	82.22	95.56	100.00	112.78
Row / Fin	-	4 Rows / 12 FPI										
BLOWER SET												
Blower Type	-	Centrifugal Forward Curve : Belt Drive										
Motor Power Output	HP / Pole	15HP/4Pole	20HP/4Pole	25HP/4Pole	30HP/4Pole	40HP/4Pole	40HP/4Pole	40HP/4Pole	40HP/4Pole	50HP/4Pole	50HP/4Pole	60HP/4Pole
Power Supply	V./Ph./Hz.	380/3/5										
FILTER SET												
Pre Filter	-	G4 (EN779 Standard)										
Medium Filter	pcs.	F8 (EN779 Standard)										
OVERALL DIMENSION												
Width	mm.	2,700	2,700	2,950	3,280	3,280	3,280	4,000	4,400	4,700	5,100	5,400
Height	mm.	2,050	2,175	2,175	2,175	2,475	2,475	2,475	2,500	2,500	2,500	2,500
Length	mm.	3,135	3,185	3,385	3,385	3,535	3,535	3,535	4,350	4,350	4,350	4,350

Remark : Nominal cooling capacity base on air entering temperature 80 °FDB / 67 °FWB

Specification are subjected to change without notice for future improvement.

UNI-AIRE CORPORATION CO., LTD.

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