

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)

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.)**

PHYSICAL DATA & ELECTRICAL DATA

MODEL DAHH	UNIT	01	02	03	04	05	06	07	08	09	10	11
Capacity	BtuH	39,000	60,000	90,000	120,000	150,000	187,500	228,000	255,000	300,000	390,000	462,000
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
Internal Static	in.wg.	1.31	1.31	1.31	1.31	1.31	1.29	1.29	1.29	1.29	1.29	1.29
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
Total Static	in.wg.	2.51	2.51	2.51	2.51	2.51	3.29	3.29	3.29	3.29	3.29	3.29
COIL SET												
Width	inch	20	20	20	30	30	35	35	45	45	60	65
Length	inch	19	29	44	39	48	52	63	55	64	63	70
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
BLOWER SET												
Power	HP./P. (IE2)	2HP./4P.	2HP./4P.	3HP./4P.	4HP./4P.	5.5HP./4P.	7.5HP./4P.	10HP./4P.	10HP./4P.	10HP./4P.	15HP./4P.	15HP./4P.
Power Supply	V./Ph./Hz.	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Sound Level	db	85.3	84.9	80.4	84.4	90.4	89.4	90.9	91	92.3	91.6	91.9
FILTER SET												
FACE AREA	sq.ft.	4		8	10.7	10.7	14	18	20	24	30	34
FACE VELOCITY AT FILTER	FPM	325	333	375	375	469	446	422	425	417	433	453
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	1,250	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
MODEL DAHH												
Capacity	BtuH	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
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
Internal Static	in.wg.	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
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
Total Static	in.wg.	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
COIL SET												
Width	inch	65	70	70	70	80	80	80	80	80	80	80
Length	inch	84	90	100	112	112	130	140	76	82	90	95
Face Area	sq.ft.	37.92	43.75	48.61	54.44	62.22	72.22	77.78	84.44	91.11	100.00	105.56
BLOWER SET												
Power	HP./P. (IE2)	20HP./4P.	20HP./4P.	25HP./4P.	30HP./4P.	40HP./4P.	40HP./4P.	40HP./4P.	40HP./4P.	50HP./4P.	50HP./4P.	60HP./4P.
Power Supply	V./Ph./Hz.	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Sound Level	db	90.4	83.9	84.2	97.5	97.6	95.6	95.5	93.3	93.4	93.4	94
FILTER SET												
FACE AREA	sq.ft.	45.33	48	54	60	70	76	84	84	90	98	104
FACE VELOCITY AT FILTER	FPM	408	448	444	450	443	467	458	500	506	510	510
OVERALL DIMENSION												
Width	mm.	2,700	2,700	2,950	3,280	3,280	3,750	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	3,385	3,385	3,385	3,535	3,535	3,535	4,350	4,350	4,350	4,350



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