



**AAHU:**

Cooling, Heating, Humidifying, Dehumidifying, Purifying and Ventilation

Indoor and outdoor installation

From 3200 to 68000 m<sup>3</sup>/hr.

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**Air Handling Unit**

**Structure:** aluminum profile coating with electro powder coating epoxy base coating or frameless unit with galvanized panel.

**Body:** galvanized steel (G 180 or equal), coating with electro powder coating polyester base or epoxy base coating.

- Solid or perforated double wall skins; Rockwool insulations
- Hinged access door with full grip handles in all sections in one side with optional sight windows and lights. (Both sides on request)
- Casing shall be provided with stainless steel in outer surface or inner surface or both on request.

**Fans:**

- Forward, backward and air foil back ward curved are used. New design plug fans are available.
- Standard Single speed and optional variable speed
- Internally mounted motor.
- Anti spark
- Self-aligning, grease - Lubricated ball bearings with pillow blocks.

**AAHU 3200- 68000 m³/hr.**

**Coils:** high technology extended surface with enhanced louvered v-waffle fins with rippled edge for all type of chilled water, hot water, DX and steam coils

- Optional fin, tube and casing materials and fin spacing.
- Optional moisture eliminators on cooling coils.
- Visible sloped drain pans in coated galvanized steel or stainless steel on request.
- Optional access between coils

**Filters:** Flat and angular (V-Type) filter racks.

- Standard aluminum filter panel and optional throw away glass fiber air filters.
- Bag filters, roll filters, and HEPA & ULPA filters in full range of filter efficiencies.
- Very new high technology filter frames with special clips for installation and removal of filters very easily.

**Mixing Box:** Optional ultra-seal low leak opposed blade dampers and standard aluminum airfoil profile blade.

- Externally mounted and linked as standard and internally mounted on request.
- Manual or motorized control damper.

**Diffusers:** Provided with galvanized steel plate and shall be installed down stream of high efficiency filters, silencer or blow throw coils.

**Blenders:** Economic or space saving options for mixing fresh and return air. Sound Attenuators

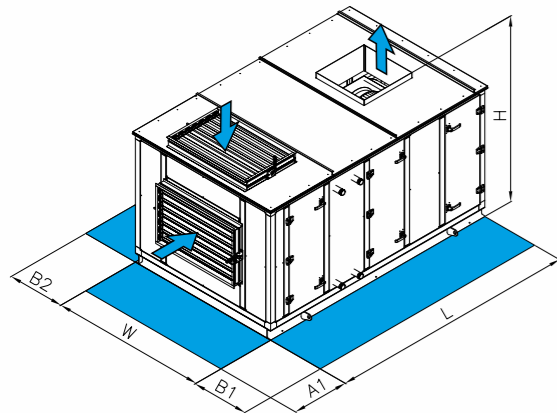
**Humidifier:** Fine spray type - Steam grid type - Pan type humidifier

- Air washers in 2 models, class 6 and 8 that spray a large quantity of water to air stream and the moisture content of air rises due to water evaporation.
- Split box

**Functions and Features**



**Dimensions and Clearances**



Model AHU		35	50	70	85	100	120	160	210	280	350	440	530	630	740
Length	mm	2500	2700	2800	2800	2800	2900	3150	3400	3800	3900	3700	3900	3900	4300
Width	mm	850	950	1200	1270	1500	1600	1900	1950	2300	2400	2900	3150	3900	4500
Height	mm	1070	1170	1170	1220	1220	1370	1420	1640	1800	2190	2240	2390	2390	2390
A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
B1	mm	850	950	1200	1200	1500	1600	1900	1900	2300	2400	2900	3100	1900	2200
B2	mm	-	-	-	-	-	-	-	-	-	-	-	-	1900	2200
Weight	kg	608	752	880	975	1125	1223	1330	1568	2072	2340	2795	3315	4186	4641

**Technical Data**

Model AHU		35	50	70	85	100	120	160	210	280	350	440	530	630	740	
<b>Nominal Air Flow Rate</b>		×10³ m³/hr	3.2	4.9	6.8	8.1	9.7	11.4	14.5	19.4	25.8	32.3	40.3	48.5	58	68
<b>Cooling Coil</b>	<b>Type</b>	#	Sine wave V-Waffle Fin & Tube ( as standard)													
	<b>qty.</b>	#	1	1	1	1	1	1	1	1	1	2	2	2	4	4
	<b>Row/FPI</b>	#/#	4 TO 8 ROW / 8 TO 14 FPI													
	<b>Cooling Capacity</b>	kW	15	23	36	43	50	59	79	106	145	181	232	265	317	381
	<b>Water Flow Rate</b>	l/s	0.7	1.1	1.7	2.1	2.4	2.8	3.8	5.1	6.9	8.7	11.1	12.3	15.2	18.2
<b>Heating Coil</b>	<b>Water Pressure Drop</b>	mH <sub>2</sub> O	0.79	1.12	2.96	5.00	2.35	2.35	4.90	6.53	10.71	10.41	19.69	3.27	6.02	9.59
	<b>Type</b>	#	Sine wave V-Waffle Fin & Tube ( as standard)													
	<b>qty.</b>	#	1	1	1	1	1	1	1	1	1	2	2	2	4	4
	<b>Row/FPI</b>	#/#	1 TO 3 ROW / 8 TO 14 FPI													
	<b>Heating Capacity</b>	kW	31	48	66	79	96	113	147	196	264	330	414	501	587	693
<b>Fan</b>	<b>Water Flow Rate</b>	l/s	0.8	1.2	1.6	1.9	2.4	2.8	3.6	4.8	6.5	8.1	10	12.3	14.4	17
	<b>Water Pressure Drop</b>	mH <sub>2</sub> O	0.31	0.41	0.41	0.51	0.82	0.84	1.63	2.04	3.37	3.27	6.02	8.06	1.94	3.06
	<b>Type</b>	#	Centrifugal													
<b>Motor</b>	<b>qty.</b>	#	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	<b>Type</b>	#	AC motor													
	<b>Power Input</b>	kW	2.2	3	4	4	5.5	5.5	7.5	11	11	15	11	11	15	15
<b>Electrical</b>	<b>Power Supply</b>	V/Ph/Hz	380~415/3/50													

Note:  
1-Cooling rating was based on water temperature (in/out):7°C / 12°C, Inlet air temperature (db/wb): 26.7°C / 19.4°C and 4 Row/ 8 FPI cooling coil.  
2-Heating rating was based on water temperature (in/out):70°C / 80°C, Inlet air temperature db: 19°C and 2 Row/ 8 FPI cooling coil.  
3-Standard motor power are based on nominal air flow in 75mm H2O total static pressure drop