



# Air Handling Units

2023 - 2024

High Static Pressure

Product Catalog



## AHU Series Catalogue



AHU MODELS SERIES

High Static Pr.



Standard AHU



## CONTENTS

	PAGE#
● Introduction	01
● Application	02
● Component Details	03
● Optional Accessories	06
● Nomenclature	07
● Physical Data	08
● Fan Performance Data	14
● Dimensional Data	22
● FPMtoCFM Charts for Ducts	42

**We Are Air Handling Experts**  
Also Available with Environmental Friendly  
Refrigerant (R-407 C/410A) + DC Inverter

Sabro Modular Air Handling units are the unique blend of experience, research and testing in the specific air handling sector. Sabro Air Handling units adapt to all specific requirements allowing different air requirements to be met even in specific fields such as hospitals, food industry, pharmaceutical industry and microelectronics.

The use of double-inlet backward inclined centrifugal fans allows equipment to be selected for use in high pressure air systems, depending on the project characteristics.

Several options are available for heat exchangers. The most commonly used cooling media are Chilled water, Glycol water and Direct expansion of coolants, etc. Same cooling coil can also be used for heating purpose by supplying hot water in the system. A separate heating coil can be provided on clientele requirement.

The multi combinations of air filters can handle a variety of air filtering needs, from simple impurity filtering to fine filtering, within the limits established by the manufacturer for the filtering/filtered media.



**Industries**

Our AHUs fulfill the requirement of air conditioned & clean air in manufacturing industries as their primary need. We manufacture Quality Air Handling Units for food industry, telecom/electronics industry or any other industry for our quality service.

**Healthcare**

Fine Air conditioning creates a clean, healthy & active environment, while dealing with problems like allergies, respiratory conditions, smoke and dust. Many sufferings from debilitating conditions have seen major health improvements with air conditioning, sterile air conditioning has greatly improved their quality of life. By circulating air through air filters, carbon dust, allergies & other microorganisms are filtered out of the rooms, leaving them healthier and cleaner.

**Commercial Buildings**

Modern tech commercial buildings have different activities taking place inside. in these buildings; in addition to conventional offices space, there may be shopping malls, food patios, banks, telecommunication centers and data processing rooms. We design and provide AHUs accordingly, which smartly cater diverse commercial needs.

**Offices**

In order to maintain an ideal temperature to create a working environment and fresh atmosphere for the workers in offices, we deliver for what we are well known. Our AHUs are known to provide hygienically clean & well conditioned air to make such environment which keep workers energetic and stay healthy so that they can work actively.





### Construction

Outer frame is made of new 4G geometry rounded aluminum profiles with corners & T joints made of reinforced nylon. The casing is made of sandwich panels which are fixed to the frame with exclusive fine locking profile with complete absence of screws.



The aluminum profile is specially designed with thermal break to avoid the heat transfer to outer body. All panels are constructed of zinc galvanized steel sheet with polyester powder coating. The standard insulation of panel is 30 mm thick. 38mm & 50mm thick insulation is provided as optional. The panels are provided with PVC profile between the inner and outer skin to avoid transfer of heat from inner panel to outer panel, eliminating condensation on outer panels.



### Fans

**Backward inclined centrifugal fans** are provided to suit the required application. Backward inclined wheels are constructed of M.S plate sheet & tested in accordance of ARI standards, suitable for total static pressure of 6.5 inch W.G.

All fans are statically and dynamically balanced with optimum precision. Fan bearings are self aligning. Ball bearings are selected for minimum 100,000 hour operation.



### Fan Motors

The motor is of TEFC (Totally Enclosed Fan Cooled) model, class F insulation with IP-55 motor protection. The motor and drive package for each unit is individually hand selected to meet the highest performance standard.



### Vibration Isolators

Fan and motor are mounted on common base with rubber vibration isolators. The flexible connection between fan & casing ensures that all moving parts are isolated from casing structure.



### Mixing Box

In order to maintain indoor air quality, air handlers commonly have the provision to allow the introduction of outside air into the building. In temperate climates, mixing the right amount of outside air with return air can be used to approach the desired supply air temperature. A mixing chamber/box is therefore used with dampers.



### Dampers

Dampers are made of high quality extruded aluminum profiles. Its aerodynamic and precise workmanship effectively reduces the leakage of air. The Damper blades are aerofoil design, double wall construction and provided with special design gaskets.

These dampers are suitable for manual as well as for motorized operation. The damper blades are operated with gear mechanism; Which offers high durability and total work operation as per requirement. The gears are made of glass reinforced Nylon.



### Filtration

A combination of different air filters handles a variety of filtration needs, from simple impurity filtering to fine filtering, within the limits established by the manufacturer for the filtering media.

2" thick aluminum filters are standard in All Air Handling Units.

High efficiency Mini pleat / bag filters with 65% and 95% efficiency can be provided on clientele requirement.



### Chilled water/Hot water Coil

The Coils are manufactured from 5/8" or 3/8" OD seamless copper tube mechanically expanded in aluminum fins to ensure maximum efficiency of heat transfer between circulating water and air. Coil circuit is designed to meet optimum performance and pressure drop limitations. Headers are made up of schedule 40 M.S pipe with threaded male pipe connections. All Headers include coil drain and vent connections. Standard water coils are suitable for 250 Psig working pressure and are tested under water with 350 Psig nitrogen pressure.



### DX Coil

The DX coil are made with seamless copper tube and aluminum fins, The DX coil are designed according to required capacities, air flow rates and air temperatures.



### Reheat Coil

Hot water & steam coils are provided at request, reheat coils are made with seam-less copper tube and aluminum fins, These coils are fully tested under water with 350 Psig nitrogen pressure.



### Drain Pan

The drain pan is designed to effectively collect the condensate water and drain it on either single or both sides of the unit. The drain pan is double walled in construction with 1 inch thick insulation between the walls. Stainless steel drain pan is provided on the client's Demand.

### We At Sabro, Accord Precision Components & Assemblies

From prototypes to production, Sabro Air Handlers are not just fans in box.

### We ensure

#### \*Thermal Break Insulation

Adjacent panel assemblies are well connected by thermally insulating tongue-&-groove specific plastic strip joint that acts as a thermal break.

#### \*High density PU Foaming Insulation (38-40 kg/m3)

#### \*Aluminum Channel Frame

It is the skeletal body which holds the whole unit housing together within it the all internal components.

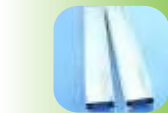
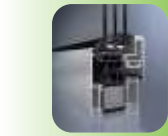
*P*aramount features of Sabro Air Handlers permit;

#### Easy Installation

Casing made up of aluminum extruded profile with nylon corners can be easily dismantled for easy transportation & installation in a place with the entries, delicate or difficult.

#### Easy Maintenance

Access panels with hinges and handles to permit quick and easy access to the interior components for inspection and maintenance.



## Optional Accessories



- **Viewing glass**, with marine lights to view the clear state of moving parts inside AHU



- **Ports** for installing Magnihelic gauge



- **Acrylic protective coating** on coils

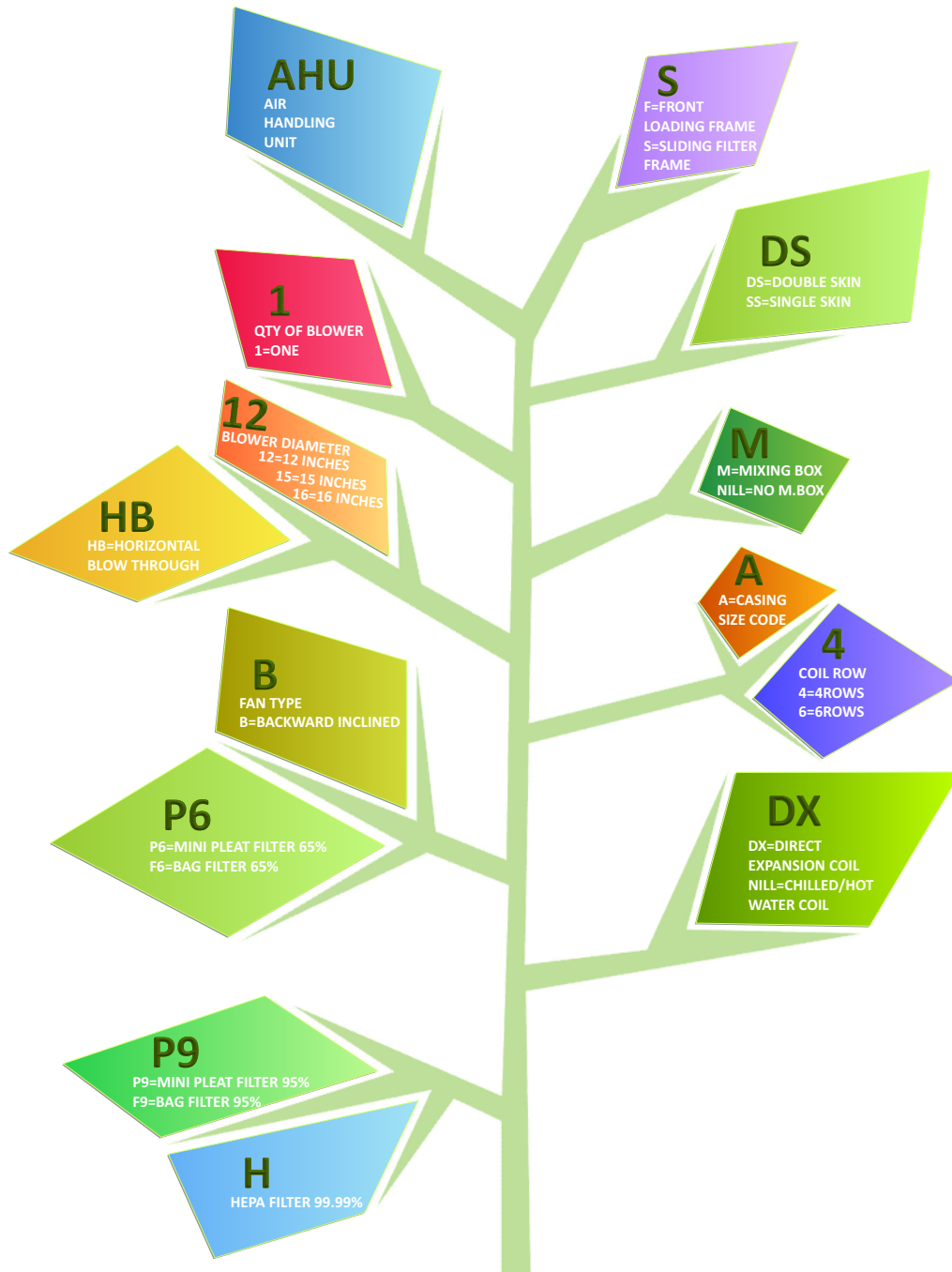


- **Variable frequency drive, (VFD)** with or without pressure sensors



- **UV Lamps** to improve Indoor Air quality, effectively increases life of hepa filters and coils

**A wide choice of accessories** such as filter section, mixing box section, hot water /steam section, heating coil section, humidifier section, diffuser section and a wide choice that meet any fire protection, thermal protection & acoustic attenuation requirement is available as per clientele Demand for **Sabro AHUs Models**.





Model AHU110		A4	A6	B4	B6
Air Flow Range	CFM	800-1000	800-1000	1100-1600	1100-1600
	CMH	1359-1699	1359-1699	1869-2718	1869-2718
	LPS	378-472	378-472	519-755	519-755
Nominal Air Flow	CFM	900	900	1400	1400
	CMH	1529	1529	2379	2379
	LPS	425	425	661	661
Maximum Coil Area	Ft <sup>2</sup>	2.0	2.0	3.0	3.0
	M <sup>2</sup>	0.186	0.186	0.28	0.28
Coil Rows	5/8"	04	06	04	06
	3/8"	06	08	06	08
Blower Diameter	Inch	10			
	MM	254			
Blower Type		Backward inclined centrifugal			
Motor Maximum	HP	5			
	KW	3.73			
Max, TSP	Inch WG	6.5			
	Pa	1618			
G4 Filters (aluminum filter) Size(inch)	G4	24 x 20 x 2	24 x 20 x 2 / 24 x 12 x 2		
	Qty	1	1+1		
65% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24 x 20 x 2	24 x 20 x 2 / 24 x 12 x 2		
	Bag	24 x 20 x 18	24 x 20 x 18 / 24 x 12 x 18		
95% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24 x 20 x 2	24 x 20 x 2 / 24 x 12 x 2		
	Bag	24 x 20 x 18	24 x 20 x 18 / 24 x 12 x 18		
99.99% Eff. Hepa-filter, Size(inch)	Mini-Pleat	24 x 20 x 2	24 x 20 x 2 / 24 x 12 x 2		
	Bag	24 x 20 x 18	24 x 20 x 18 / 24 x 12 x 18		
99.99% Eff. Hepa-filter, Size(inch)	Hepa	24 x 20 x 12	24 x 20 x 12 / 24 x 12 x 12		
	Qty	1	1+1		
Bottom Frame		Heavy duty made with galvanized steel sheet			
Casing Frame		Made with extruded aluminum profile with thermal brake			
Panel's Construction		Double wall construction with PU foam injected insulation.			
Insulation Thickness		Standard:30MM(can be provided up to 51 mm on Demand)			
Mixing Box		Provided with geared aluminum airfoil shaped blades			

Due to continuous improvement our product specifications may change

Model AHU112		A4	A6	B4	B6	C4	C6
Air Flow Range	CFM	1500-2000	1500-2000	2100-3000	2100-3000	3100-3800	3100-3800
	CMH	2549-3398	2549-3398	3568-5097	3568-5097	5267-6456	5267-6456
	LPS	708-944	708-944	991-1416	991-1416	1464-1794	1464-1794
Nominal Air Flow	CFM	1800	1800	2500	2500	3500	3500
	CMH	3058	3058	4248	4248	5947	5947
	LPS	850	850	1180	1180	1653	1653
Maximum Coil Area	Ft <sup>2</sup>	02	02	5.0	5.0	7.0	7.0
	M <sup>2</sup>	0.186	0.186	0.465	0.465	0.65	0.65
Coil Rows	5/8"	04	06	04	06	04	06
	3/8"	06	08	06	08	06	08
Blower Diameter	Inch	12.4					
	MM	315					
Blower Type	Backward inclined centrifugal						
Motor Maximum	HP	10					
	KW	7.5					
Max, TSP	Inch WG	6.5					
	Pa	1618					
G4 Filters (aluminum filter) Size(inch)	G4	24 x 20 x 2, 24x12x2		24 x 20 x 2		24 x 24 x 2	
	Qty	1+1		2		2	
65% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24 x 20 x 2, 24x12x2		24 x 20 x 2		24 x 24 x 2	
	Bag	24 x 20 x 18, 24x12x18		24 x 20 x 22		24 x 24 x 22	
	Qty	1+1(each)		2(each)		2(each)	
95% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24 x 20 x 2, 24x12x2		24 x 20 x 2		24 x 24 x 2	
	Bag	24 x 20 x 18, 24x12x18		24 x 20 x 22		24 x 24 x 22	
	Qty	1+1(each)		2(each)		2(each)	
99.99% Eff. Hepa-filter, Size(inch)	Hepa	24 x 20 x 12, 24x12x12		24 x 20 x 12		24 x 24 x 12	
	Qty	1+1		2		2	
Bottom Frame	Heavy duty made with galvanized steel sheet						
Casing Frame	Made with extruded aluminum profile with thermal brake						
Panel's Construction	Double wall construction with PU foam injected insulation.						
Insulation Thickness	Standard:30MM(can be provided up to 51 mm on Demand)						
Mixing Box	Provided with geared aluminum airfoil shaped blades						

Due to continuous improvement our product specifications may change

Model AHU115		A4	A6	B4	B6	C4	C6
Air Flow Range	CFM	4000-5000	4000-5000	5100-5800	5100-5800	5900-6500	5900-6500
	CMH	6796-8495	6796-8495	8665-9854	8665-9854	10024-11044	10024-11044
	LPS	1889-2361	1889-2361	2408-2738	2408-2738	2786-3069	2786-3069
Nominal Air Flow	CFM	4200	4200	5400	5400	6100	6100
	CMH	7136	7136	9175	9175	10364	10364
	LPS	1983	1983	2550	2550	2880	2880
Maximum Coil Area	Ft <sup>2</sup>	09	09	11.18	11.18	12.15	12.15
	M <sup>2</sup>	0.84	0.84	1.04	1.04	1.13	1.13
Coil Rows	5/8"	04	06	04	06	04	06
	3/8"	06	08	06	08	06	08
Blower Diameter	Inch	15.75					
	MM	400					
Blower Type		Backward inclined centrifugal					
Motor Maximum	HP	15					
	KW	11.2					
Max, TSP	Inch WG	6.5					
	Pa	1618					
G4 Filters (aluminum filter) Size(inch)	G4	24 x 20 x 2	24 x 20 x 2, 24x24x2			20 x 24 x 2, 20x20x2	
	Qty	4	2+2			3+3	
65% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24 x 20 x 2	24 x 20 x 2, 24x24x2			20 x 24 x 2, 20x20x2	
	Bag	24 x 20 x 18	24 x 20 x 18, 24x24x18			20 x 24 x 18, 20x20x18	
	Qty	4(each)	2+2(each)			3+3(each)	
95% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24 x 20 x 2	24 x 20 x 2, 24x24x2			20 x 24 x 2, 20x20x2	
	Bag	24 x 20 x 18	24 x 20 x 18, 24x24x18			20 x 24 x 18, 20x20x18	
	Qty	4(each)	2+2(each)			3+3(each)	
99.99% Eff. Hepa-filter, Size(inch)	Hepa	24 x 20 x 12	24 x 20 x 12, 24x24x12			20 x 24 x 12, 20x20x12	
	Qty	4	2+2			3+3	
Bottom Frame		Heavy duty made with galvanized steel sheet					
Casing Frame		Made with extruded aluminum profile with thermal brake					
Panel's Construction		Double wall construction with PU foam injected insulation.					
Insulation Thickness		Standard:30MM(can be provided up to 51 mm on Demand)					
Mixing Box		Provided with geared aluminum airfoil shaped blades					

Due to continuous improvement our product specifications may change

Model AHU118		A4	A6	B4	B6
Air Flow Range	CFM	6500-7500	6500-7500	7600-8500	7600-8500
	CMH	11044-12743	11044-12743	12912-14442	12912-14442
	LPS	3069-3541	3069-3541	3588-4013	3588-4013
Nominal Air Flow	CFM	7000	7000	7800	7800
	CMH	11893	11893	13252	13252
	LPS	3305	3305	3683	3683
Maximum Coil Area	Ft <sup>2</sup>	14	14	15.6	15.6
	M <sup>2</sup>	1.30	1.30	1.45	1.45
Coil Rows	5/8"	04	06	04	06
	3/8"	06	08	06	08
Blower Diameter	Inch	17.75			
	MM	451			
Blower Type		Backward inclined centrifugal			
Motor Maximum	HP	20			
	KW	15			
Max, TSP	Inch WG	6.5			
	Pa	1618			
G4 Filters (aluminum filter) Size(inch)	G4	24x20x2, 20x20x2		24 x 24 x 2	
	Qty	3+3		6	
65% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24x20x2, 20x20x2		24 x 24 x 2	
	Bag	24x20x22, 20x20x22		24 x 24 x 22	
	Qty	3+3(each)		6(each)	
95% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24x20x2, 20x20x2		24 x 24 x 2	
	Bag	24x20x22, 20x20x22		24 x 24 x 22	
	Qty	3+3(each)		6(each)	
99.99% Eff. Hepa-filter, Size(inch)	Hepa	24x20x12, 20x20x12		24 x 24 x 12	
	Qty	3+3		6	
Bottom Frame		Heavy duty made with galvanized steel sheet			
Casing Frame		Made with extruded aluminum profile with thermal brake			
Panel's Construction		Double wall construction with PU foam injected insulation.			
Insulation Thickness		Standard:30MM(can be provided up to 51 mm on Demand)			
Mixing Box		Provided with geared aluminum airfoil shaped blades			

Due to continuous improvement our product specifications may change

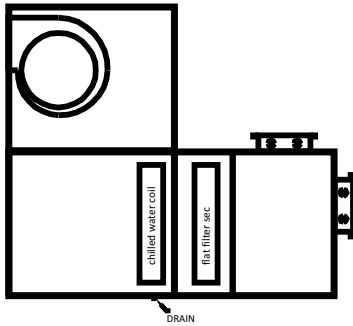
Model AHU122		A4	A6	B4	B6
Air Flow Range	CFM	9500-11500	9500-11500	11600-13500	11600-13500
	CMH	16141-19539	16141-19539	19709-22937	19709-22937
	LPS	4485-5430	4485-5430	5477-6374	5477-6374
Nominal Air Flow	CFM	10500	10500	12500	12500
	CMH	17840	17840	21238	21238
	LPS	4958	4958	5902	5902
Maximum Coil Area	Ft <sup>2</sup>	21	21	25	25
	M <sup>2</sup>	1.95	1.95	2.32	2.32
Coil Rows	5/8"	04	06	04	06
	3/8"	06	08	06	08
Blower Diameter	Inch	22			
	MM	559			
Blower Type		Backward inclined centrifugal			
Motor Maximum	HP	30			
	KW	22.4			
Max, TSP	Inch WG	6.5			
	Pa	1618			
G4 Filters (aluminum filter) Size(inch)	G4	20 x24 x2	24 x24x2, 24x12x2, 12x12x2		
	Qty	8	6+5+1		
65% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24 x24 x2	24 x24x2, 24x12x2, 12x12x2		
	Bag	20x24x22	24 x24x22, 24x12x22, 12x12x22		
	Qty	8(each)	6+5+1(each)		
95% Eff. Mini-pleat or bag filter Size(inch)	Mini-Pleat	24x24x2	24 x24x2, 24x12x2, 12x12x2		
	Bag	20x24x22	24 x24x22, 24x12x22, 12x12x22		
	Qty	8(each)	6+5+1(each)		
99.99% Eff. Hepa-filter, Size(inch)	Hepa	20x24x12	24x24x12, 24x12x12, 12x12x12		
	Qty	8	6+5+1		
Bottom Frame		Heavy duty made with galvanized steel sheet			
Casing Frame		Made with extruded aluminum profile with thermal brake			
Panel's Construction		Double wall construction with PU foam injected insulation.			
Insulation Thickness		Standard:30MM(can be provided up to 51 mm on Demand)			
Mixing Box		Provided with geared aluminum airfoil shaped blades			

Due to continuous improvement our product specifications may change

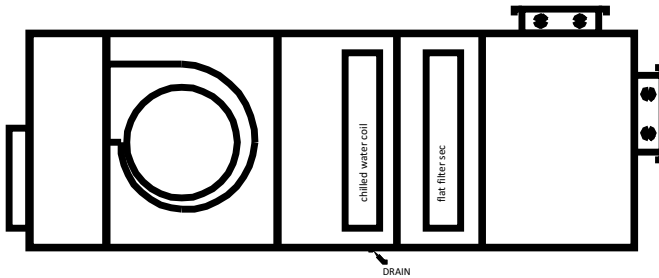


### Different Arrangements

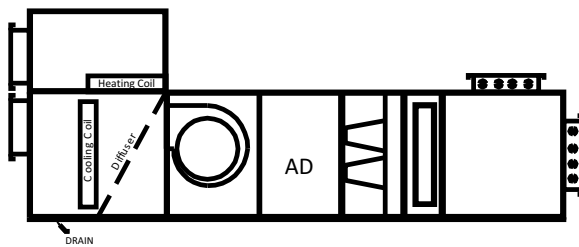
Vertical draw through arrangement



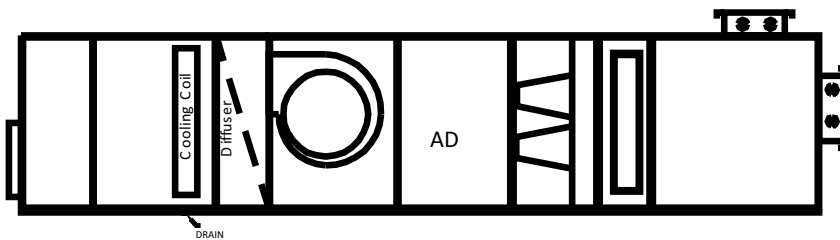
Horizontal draw through arrangement



Multi-zone blow through arrangement



Horizontal blow through arrangement

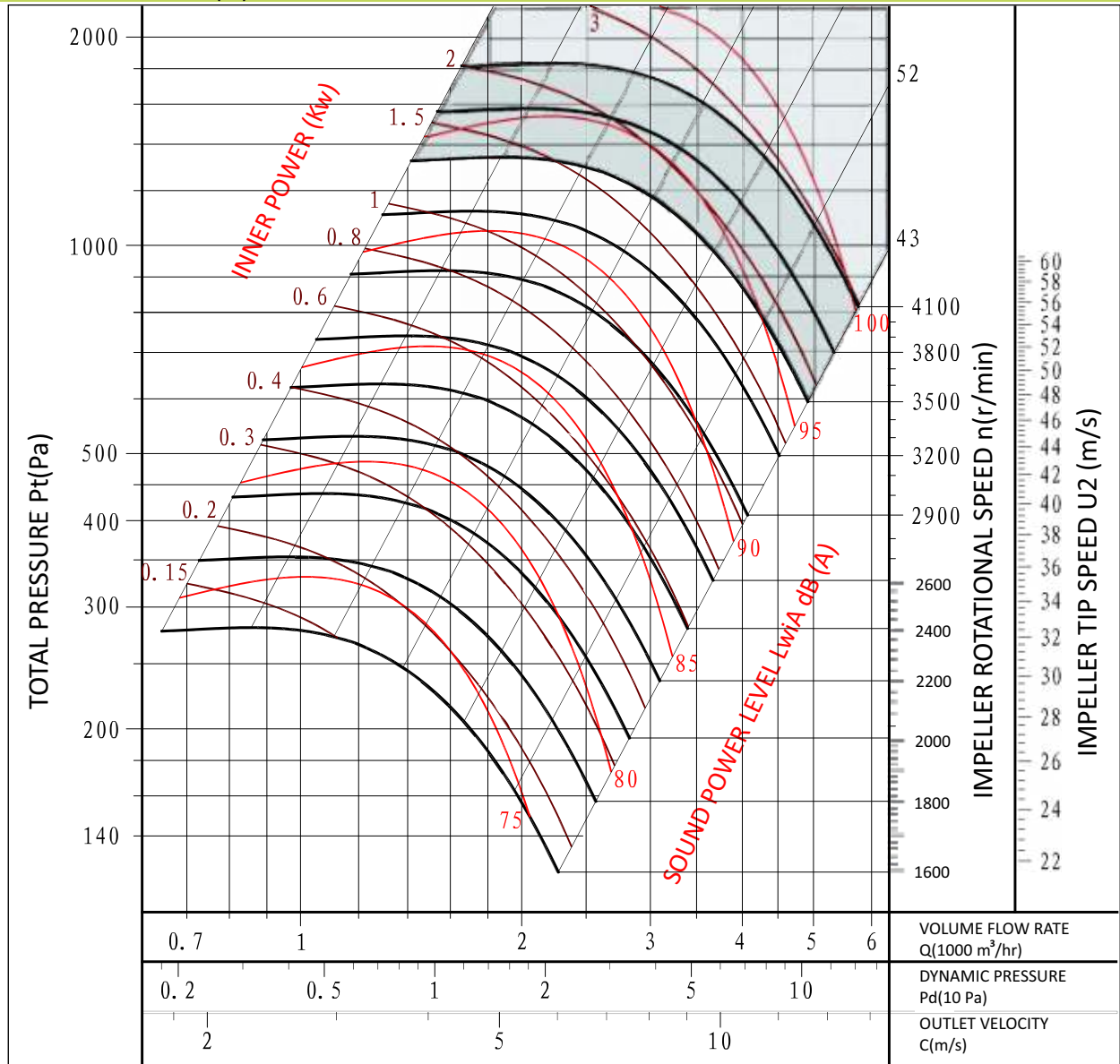


### AHU 110 HBB

GAS DENSITY: 1.2 kg/m<sup>3</sup>

Total EFFICIENCY  $\eta$  (%)

43 50 55 58 57



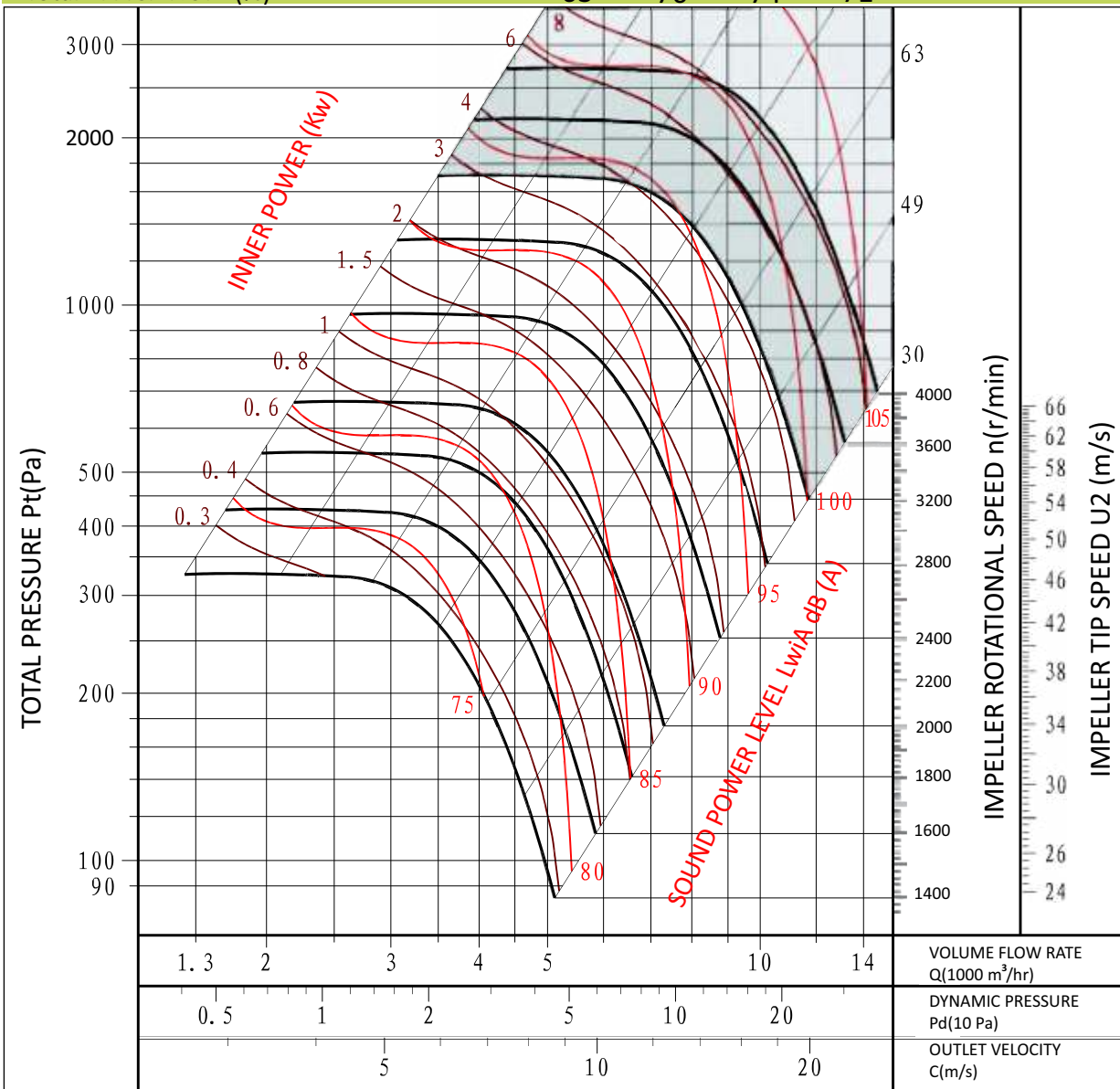
Performance certified is for Installation type B-Free inlet, ducted outlet. Power rating (kw) does not include transmission losses. The Performance ratings do not include the effects of appurtenances(accessories).The A-weighted sound ratings, shown have been calculated as per AMCA International standards 301. Vlues shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet.

### AHU 112 HBB

GAS DENSITY: 1.2 kg/m<sup>3</sup>

Total EFFICIENCY  $\eta$  (%)

63 70 74 71



AHU MODELS SERIES

High Pr. Mode

Performance certified is for Installation type B-Free inlet, ducted outlet. Power rating (kw) does not include transmission losses. The Performance ratings do not include the effects of appurtenances(accessories).The A-weighted sound ratings, shown have been calculated as per AMCA International standards 301. Vlues shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet.

# AHU 115 HBB

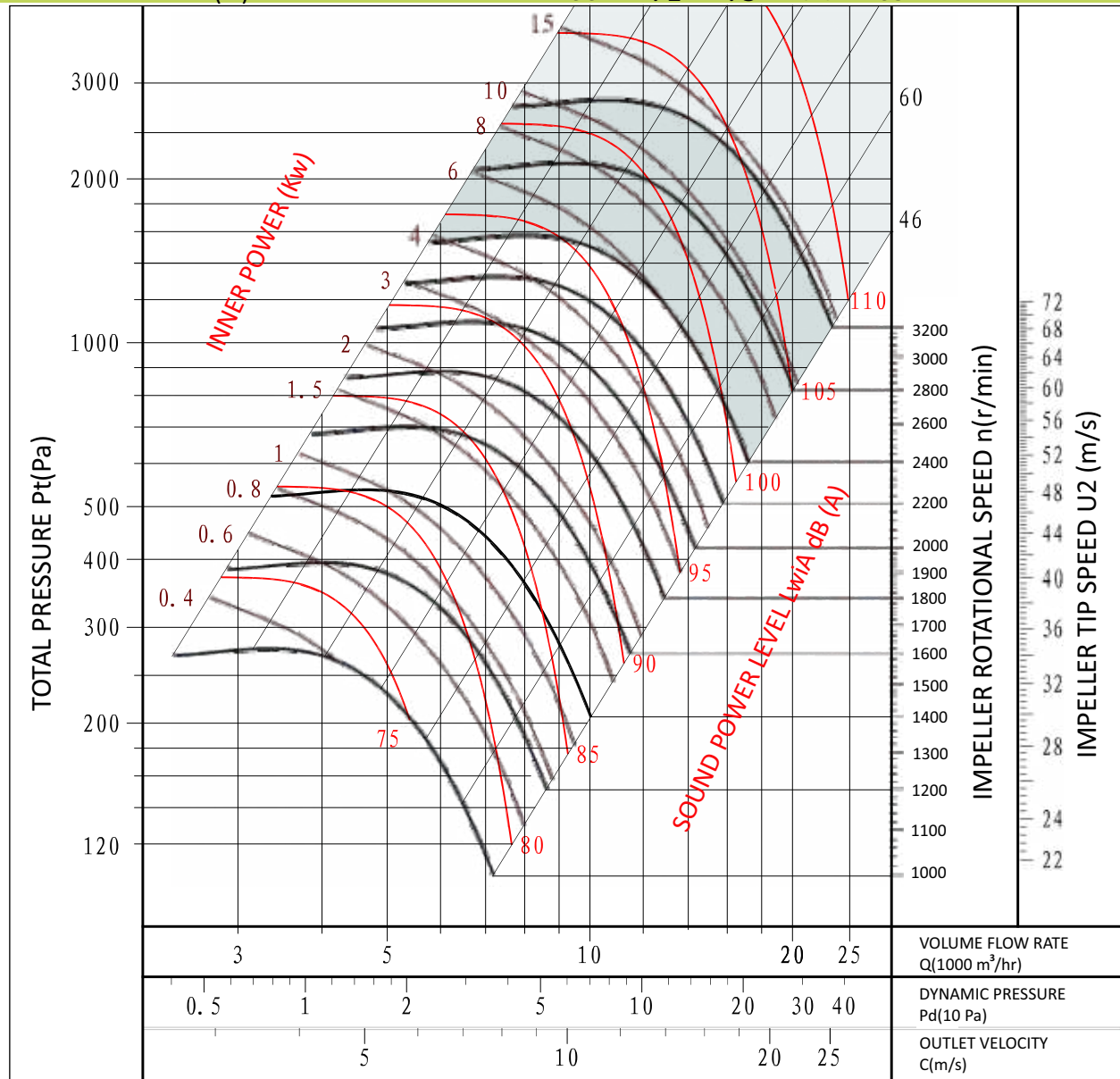
GAS DENSITY: 1.2 kg/m<sup>3</sup>

AHU MODELS SERIES

High Pr. Mode

Total EFFICIENCY  $\eta$  (%)

66 71 75 74 69



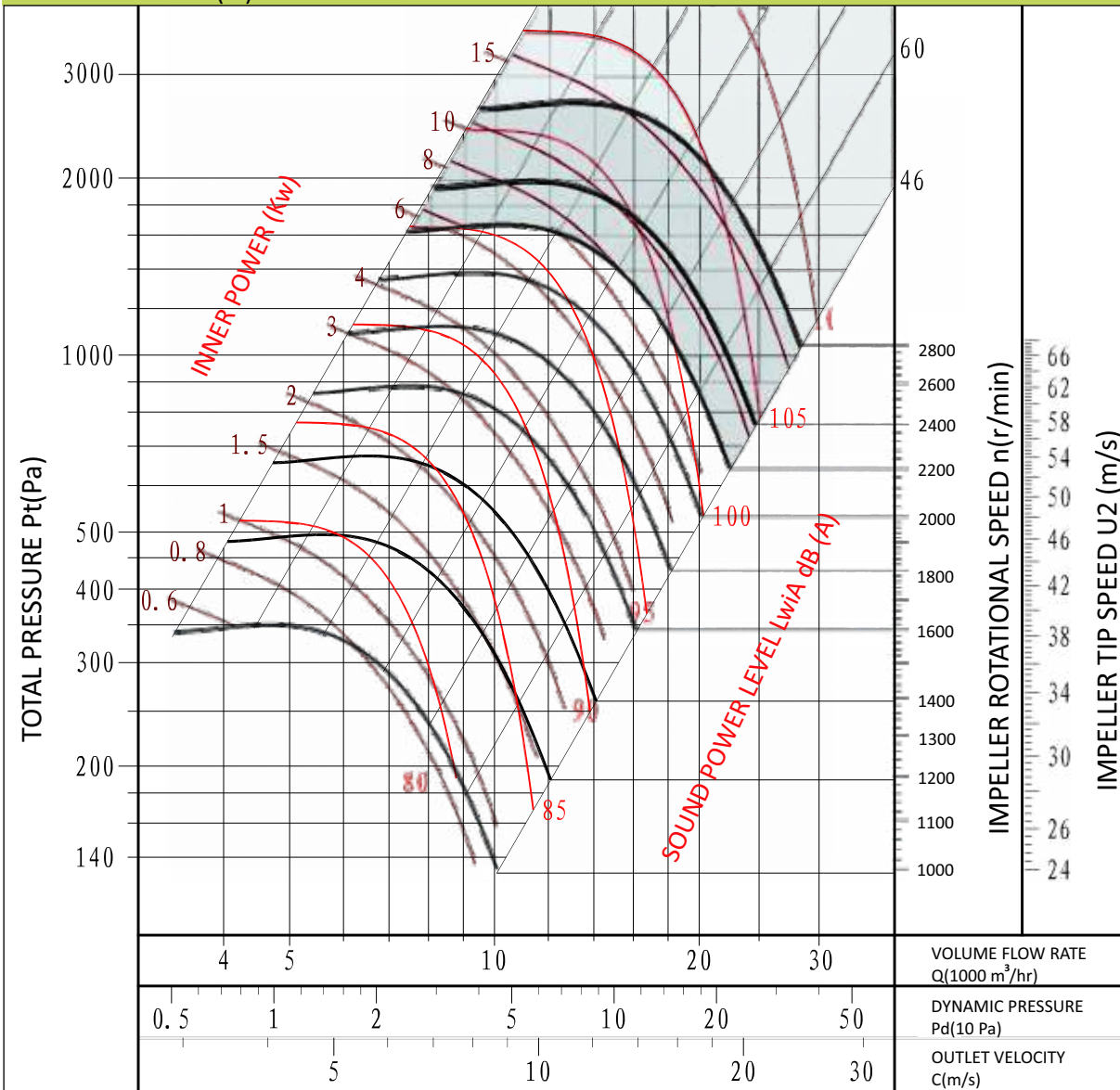
Performance certified is for Installation type B-Free inlet, ducted outlet. Power rating (kw) does not include transmission losses. The Performance ratings do not include the effects of appurtenances(accessories).The A-weighted sound ratings, shown have been calculated as per AMCA International standards 301. Vlues shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet.

## AHU 118 HBB

GAS DENSITY: 1.2 kg/m<sup>3</sup>

Total EFFICIENCY  $\eta$ (%)

66 71 75 74 69



AHU MODELS SERIES

High Pr. Mode

Performance certified is for Installation type B-Free inlet, ducted outlet. Power rating (kw) does not include transmission losses. The Performance ratings do not include the effects of appurtenances(accessories).The A-weighted sound ratings, shown have been calculated as per AMCA International standards 301. Vlues shown are for inlet LwIA sound power levels for installation type B: free inlet, ducted outlet.

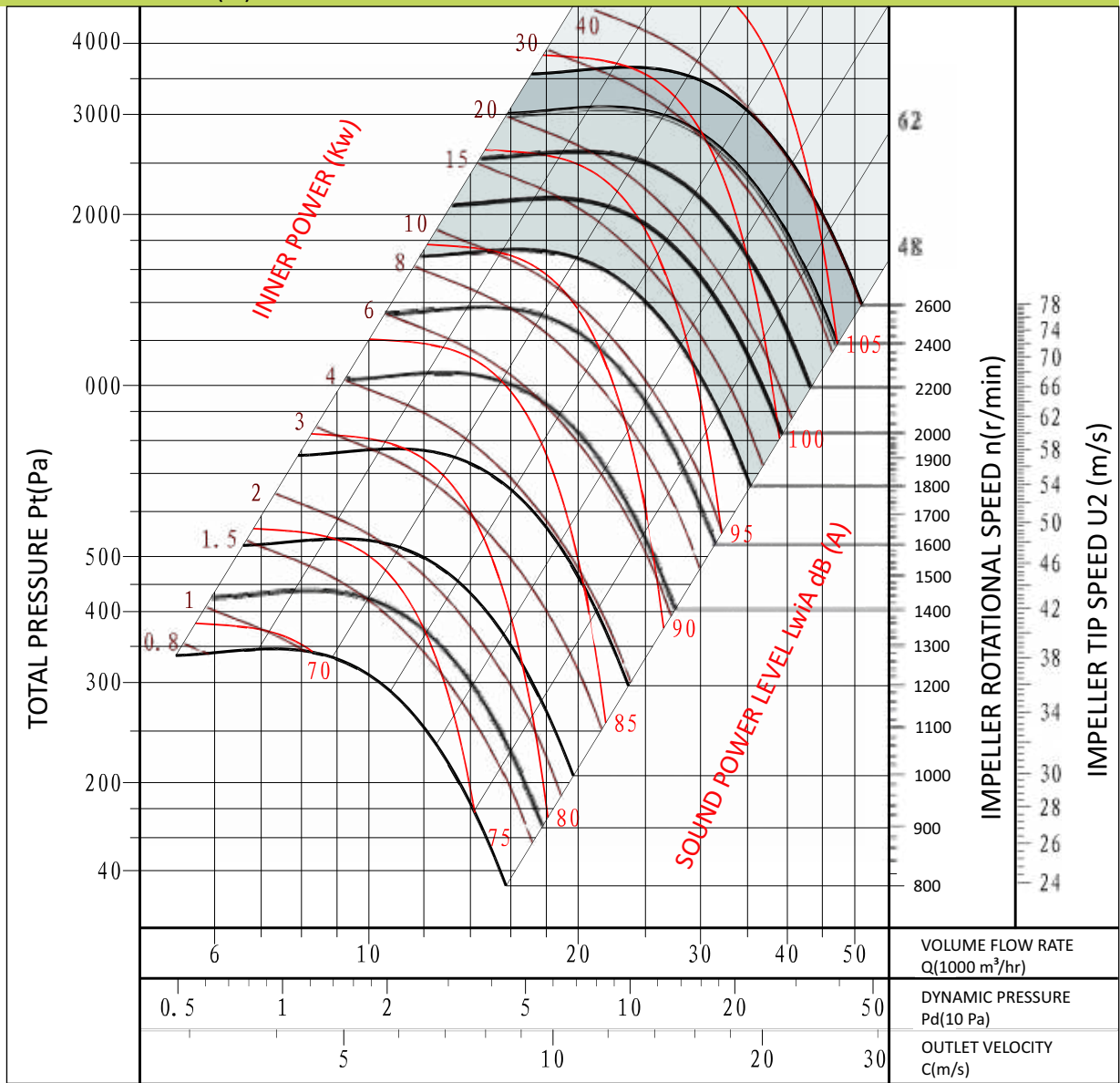


## AHU 122 HBB

GAS DENSITY: 1.2 kg/m<sup>3</sup>

Total EFFICIENCY  $\eta$  (%)

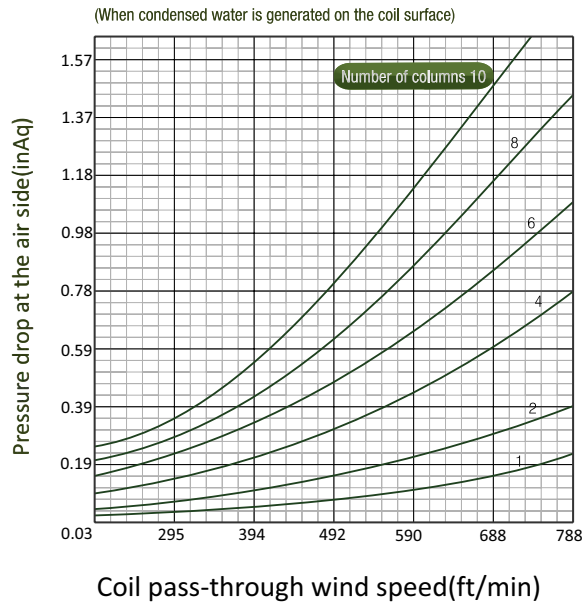
68 73 77 75 71



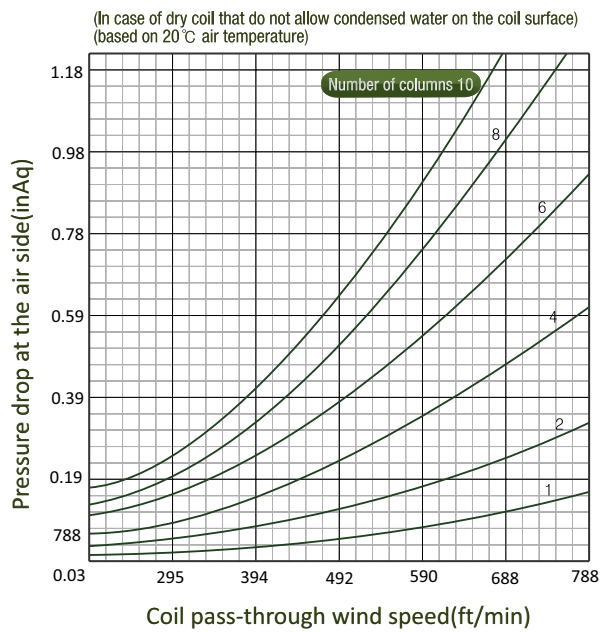
Performance certified is for Installation type B-Free inlet, ducted outlet. Power rating (kw) does not include transmission losses. The Performance ratings do not include the effects of appurtenances(accessories).The A-weighted sound ratings, shown have been calculated as per AMCA International standards 301. Vlues shown are for inlet LwiA sound power levels for installation type B: free inlet, ducted outlet.

## Static pressure losses

### Static pressure loss by the chilled water coil



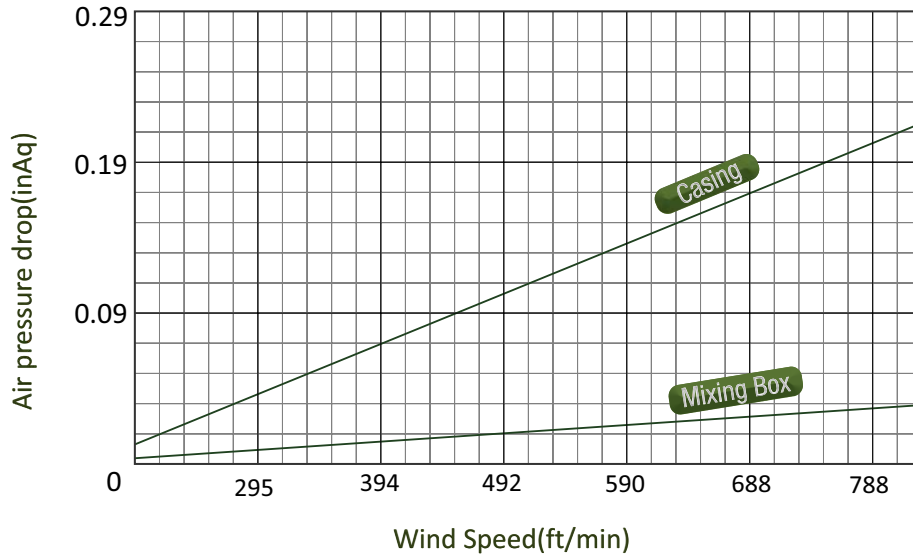
### Static pressure loss by the hot water(steam) coil



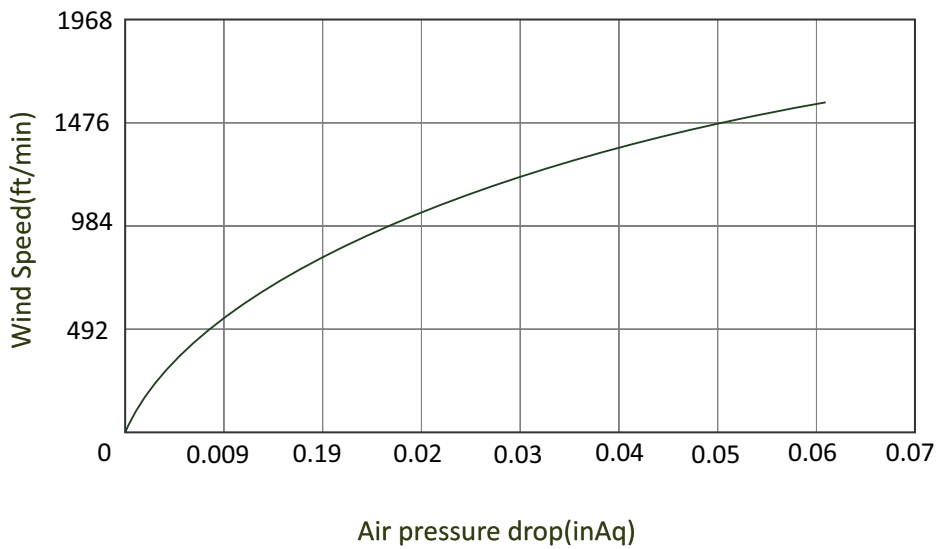
NOTE  
° inAq=inch water

## Static pressure losses

Static pressure drop by the mixing box and casing



Static pressure loss by the damper



**FAN LAWS:**

Use the Fan Laws along a system curve. If you know one (CFM, S.P.) point of a system you could use Fan Law 2 to determine the static pressure for other flow rates. They apply to a fixed air system. Once any element of the system changes, duct size, hood length, riser size, etc... The system curve changes.

$$\frac{\text{CFM}_x}{\text{CFM}_{\text{known}}} = \frac{\text{RPM}_x}{\text{RPM}_{\text{known}}} \quad \text{Fan Law 1}$$

$$\frac{\text{SP}_x}{\text{SP}_{\text{known}}} = \frac{\text{CFM}_x^2}{\text{CFM}_{\text{known}}^2} = \frac{\text{RPM}_x^2}{\text{RPM}_{\text{known}}^2} \quad \text{Fan Law 2}$$

$$\frac{\text{BHP}_x}{\text{BHP}_{\text{known}}} = \frac{\text{CFM}_x^3}{\text{CFM}_{\text{known}}^3} = \frac{\text{RPM}_x^3}{\text{RPM}_{\text{known}}^3} \quad \text{Fan Law 3}$$

Other calculations can be utilized to maneuver around a fan performance curve. For example, to calculate BHP from motor amp draw, use the following formula:

**1 phase motors**
**3 phase motors**

$$\text{BHP} = \frac{V * I * E * \text{PF}}{746}$$

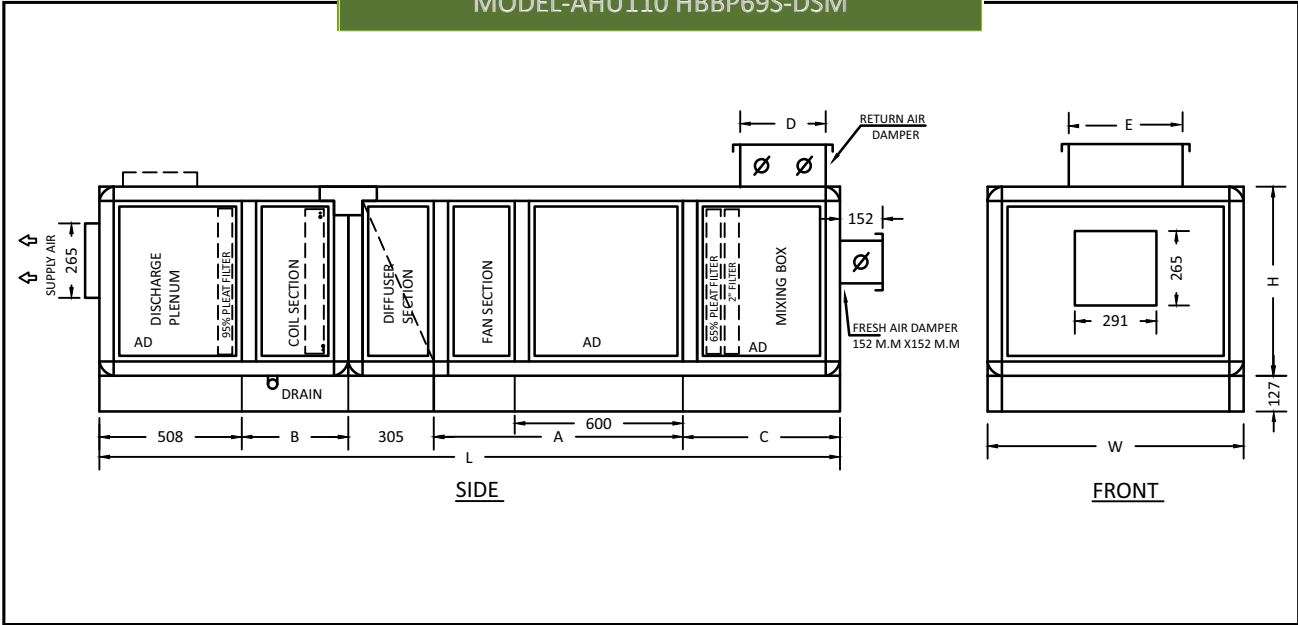
$$\text{BHP} = \frac{V * I * E * \text{PF} * 1.73}{746}$$

Where:

- BHP = Brake Horsepower
- V = Line Voltage
- I = Line Current
- E = Motor Efficiency (Usually about .85 to .9)
- PF = Motor Power Factor (Usually about .9)

Once the BHP is known, the RPM of the fan can be measured. The motor BHP and fan RPM can then be matched on the fan performance curve to approximate airflow.

MODEL-AHU110 HBBP69S-DSM



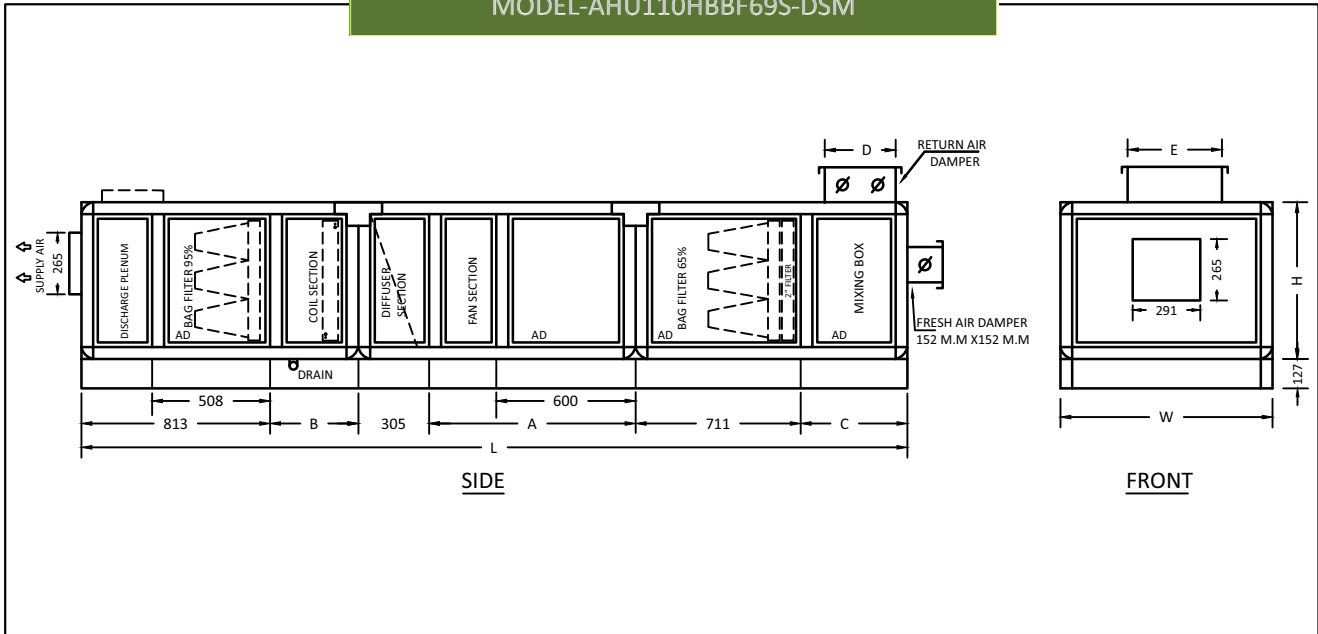
MODEL	CFM	L	W	H	A	B	C	D	E
AHU-110HBBP69S-DSM A4	800~1000	2642	660	675	889	380	560	305	406
AHU-110HBBP69S-DSM A6	800~1000	2720	660	675	889	458	560	305	406
AHU-110HBBP69S-DSM B4	1100~1500	2642	864	775	889	380	560	305	508
AHU-110HBBP69S-DSM B6	1100~1500	2720	864	775	889	458	560	305	508

NOTE

- ° For single skin construction use "SS" in place of "DS"
- ° For 95% minipleat filters, use "P9" instead of "P6"



## MODEL-AHU110HBBF69S-DSM



AHU MODELS SERIES

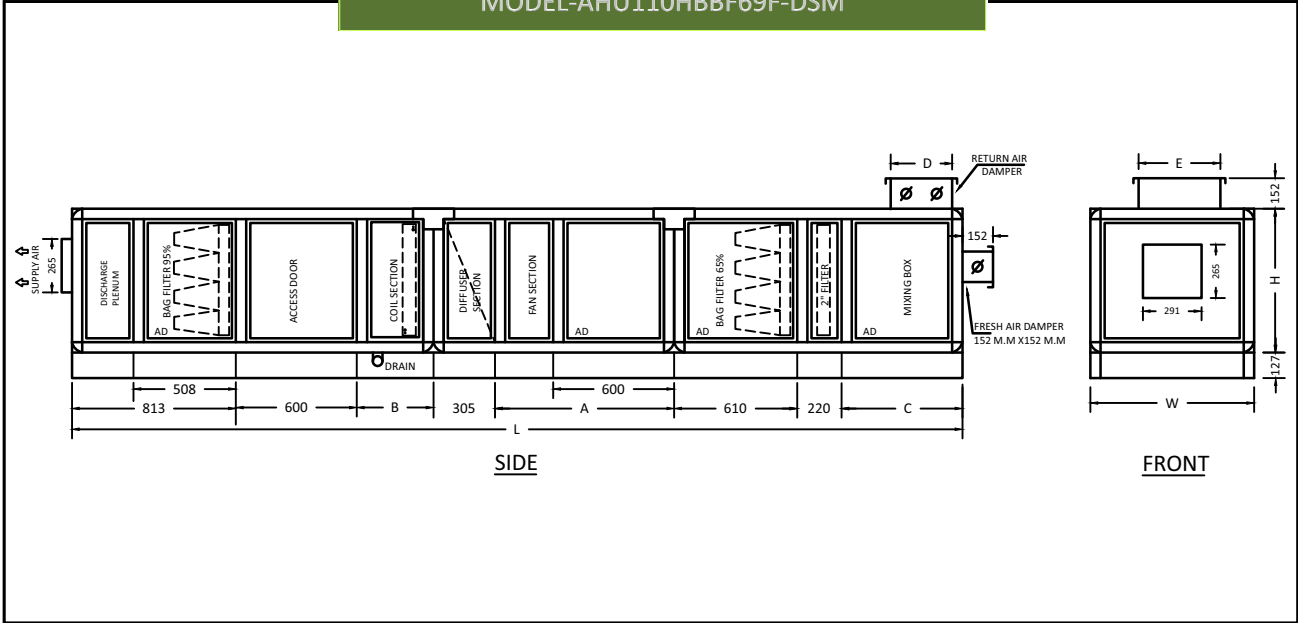
High Pr. Mode

MODEL	CFM	L	W	H	A	B	C	D	E
AHU-110HBBF69S-DSM A4	800~1000	3558	660	675	889	380	460	305	406
AHU-110HBBF69S-DSM A6	800~1000	3636	660	675	889	458	460	305	406
AHU-110HBBF69S-DSM B4	1100~1600	3558	864	775	889	380	460	305	508
AHU-110HBBF69S-DSM B6	1100~1600	3636	864	775	889	458	460	305	508

**NOTE**

° For single skin construction use “SS” in place of “DS”

MODEL-AHU110HBBF69F-DSM

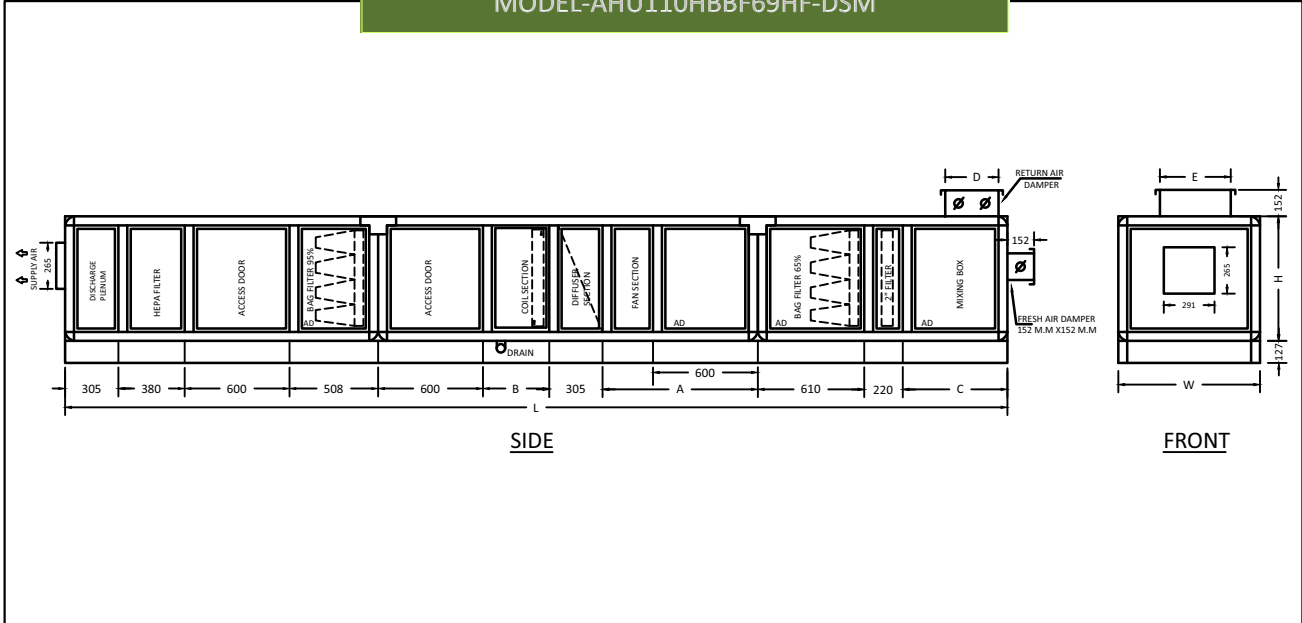


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-110HBBF69F-DSM A4	800~1000	4417	812	712	889	380	600	305	406
AHU-110HBBF69F-DSM A6	800~1000	4495	812	712	889	458	600	305	406
AHU-110HBBF69F-DSM B4	1100~1600	4417	1016	812	889	380	600	305	508
AHU-110HBBF69F-DSM B6	1100~1600	4495	1016	812	889	458	600	305	508

NOTE

° For single skin construction use “SS” in place of “DS”

MODEL-AHU110HBBF69HF-DSM



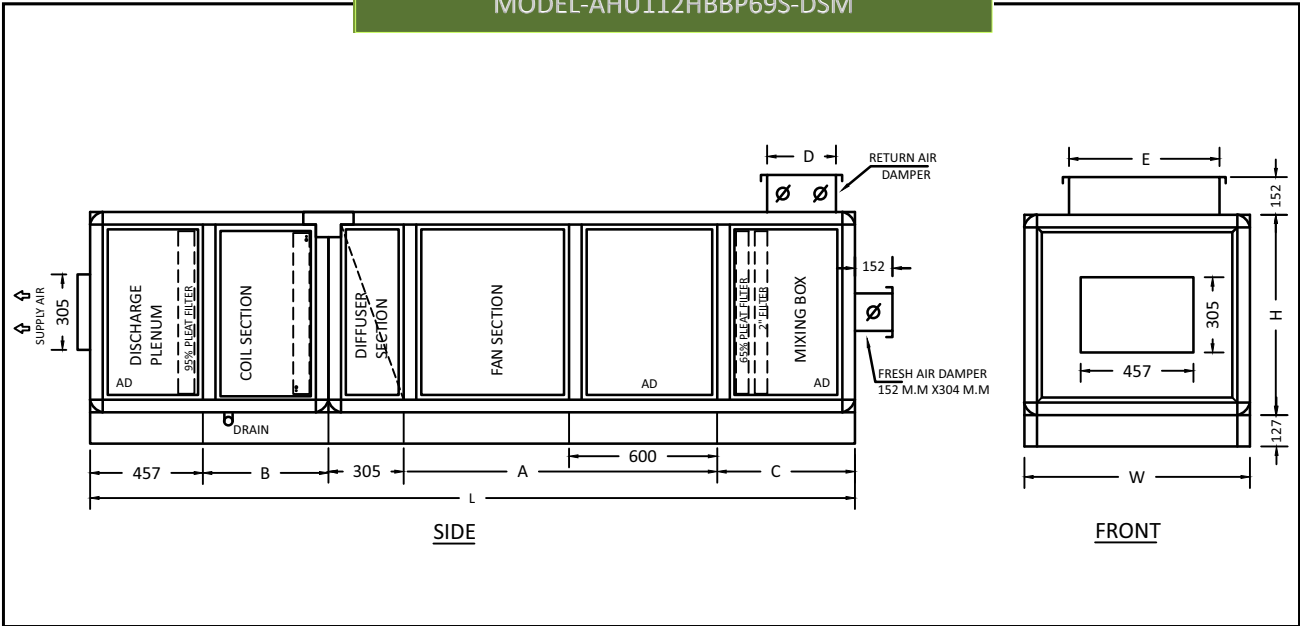
MODEL	CFM	L	W	H	A	B	C	D	E
AHU-110HBBF69HF-DSM A4	800~1000	5397	812	712	889	380	600	305	406
AHU-110HBBF69HF-DSM A6	800~1000	5475	812	712	889	458	600	305	406
AHU-110HBBF69HF-DSM B4	1100~1600	5397	1016	812	889	380	600	305	508
AHU-110HBBF69HF-DSM B6	1100~1600	5475	1016	812	889	458	600	305	508

NOTE

° For single skin construction use “SS” in place of “DS”

AHU MODELS SERIES  
High Pr. Mode

MODEL-AHU112HBBP69S-DSM

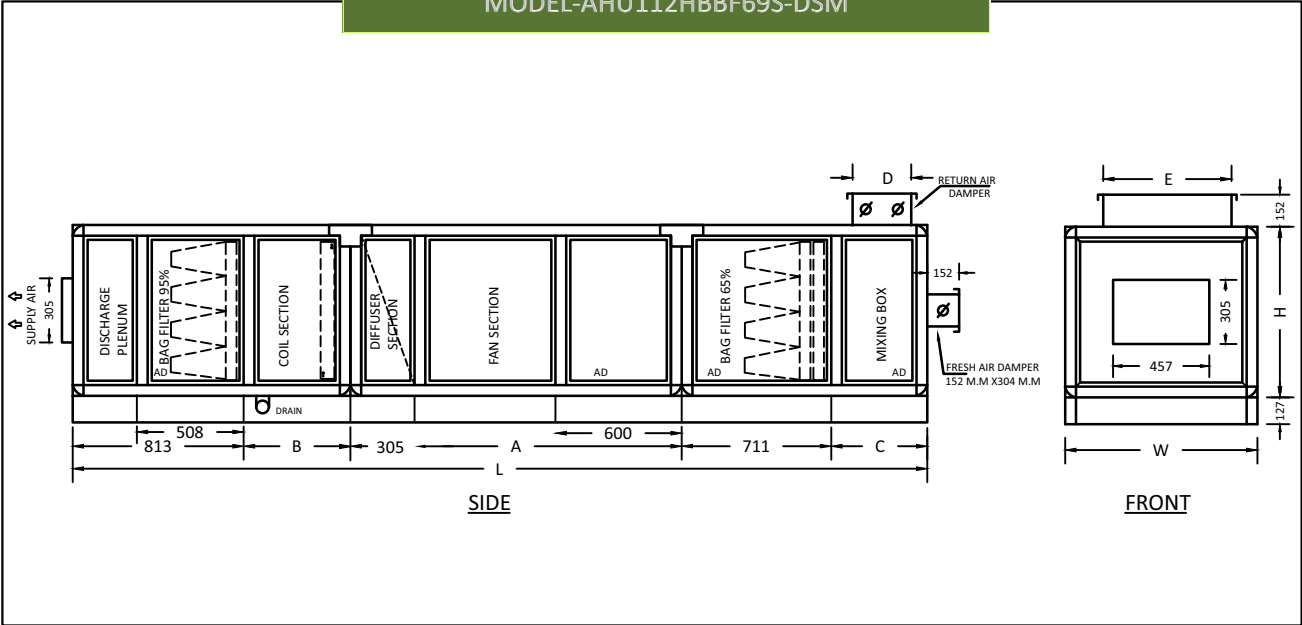


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-112HBBP69S-DSM A4	1500~2000	3098	914	812	1270	508	558	305	610
AHU-112HBBP69S-DSM A6	1500~2000	3150	914	812	1270	560	558	305	610
AHU-112HBBP69S-DSM B4	2100~3000	3098	1067	812	1270	508	558	305	915
AHU-112HBBP69S-DSM B6	2100~3000	3150	1067	812	1270	560	558	305	915
AHU-112HBBP69S-DSM C4	3100~3800	3098	1295	864	1270	508	558	457	915
AHU-112HBBP69S-DSM A6	3100~3800	3150	1295	864	1270	560	558	457	915

NOTE

- ° For single skin construction use "SS" in place of "DS"
- ° For 95% mini-pleat filters, use "P9" instead of "P6"

MODEL-AHU112HBBF69S-DSM

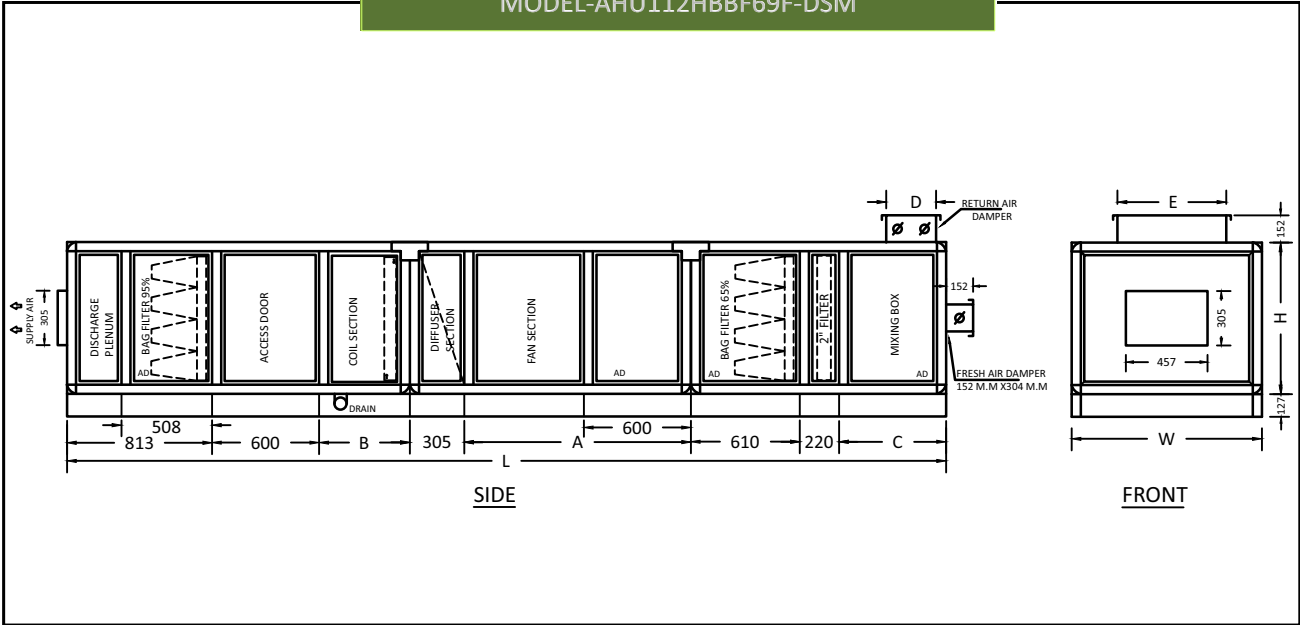


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-112HBBF69S-DSM A4	1500~2000	4064	914	812	1270	508	457	305	610
AHU-112HBBF69S-DSM A6	1500~2000	4116	914	812	1270	560	457	305	610
AHU-112HBBF69S-DSM B4	2100~3000	4064	1067	812	1270	508	457	305	915
AHU-112HBBF69S-DSM B6	2100~3000	4116	1067	812	1270	560	457	305	915
AHU-112HBBF69S-DSM C4	3100~3800	4064	1295	864	1270	508	457	457	915
AHU-112HBBF69S-DSM A6	3100~3800	4116	1295	864	1270	560	457	457	915

NOTE

° For single skin construction use “SS” in place of “DS”

MODEL-AHU112HBBF69F-DSM

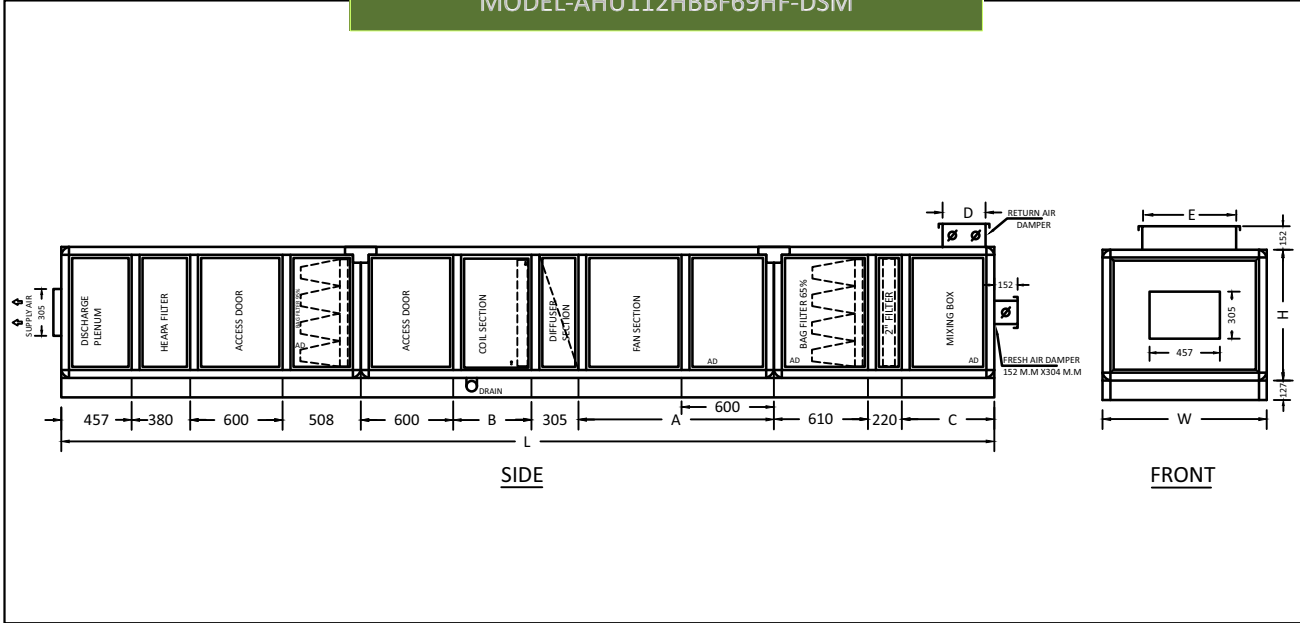


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-112HBBF69F-DSM A4	1500~2000	4926	1066	850	1270	508	600	305	610
AHU-112HBBF69F-DSM A6	1500~2000	4978	1066	850	1270	560	600	305	610
AHU-112HBBF69F-DSM B4	2100~3000	4926	1219	850	1270	508	600	305	915
AHU-112HBBF69F-DSM B6	2100~3000	4978	1219	850	1270	560	600	305	915
AHU-112HBBF69F-DSM C4	3100~3800	4926	1447	902	1270	508	600	457	915
AHU-112HBBF69F-DSM A6	3100~3800	4978	1447	902	1270	560	600	457	915

NOTE

° For single skin construction use "SS" in place of "DS"

MODEL-AHU112HBBF69HF-DSM

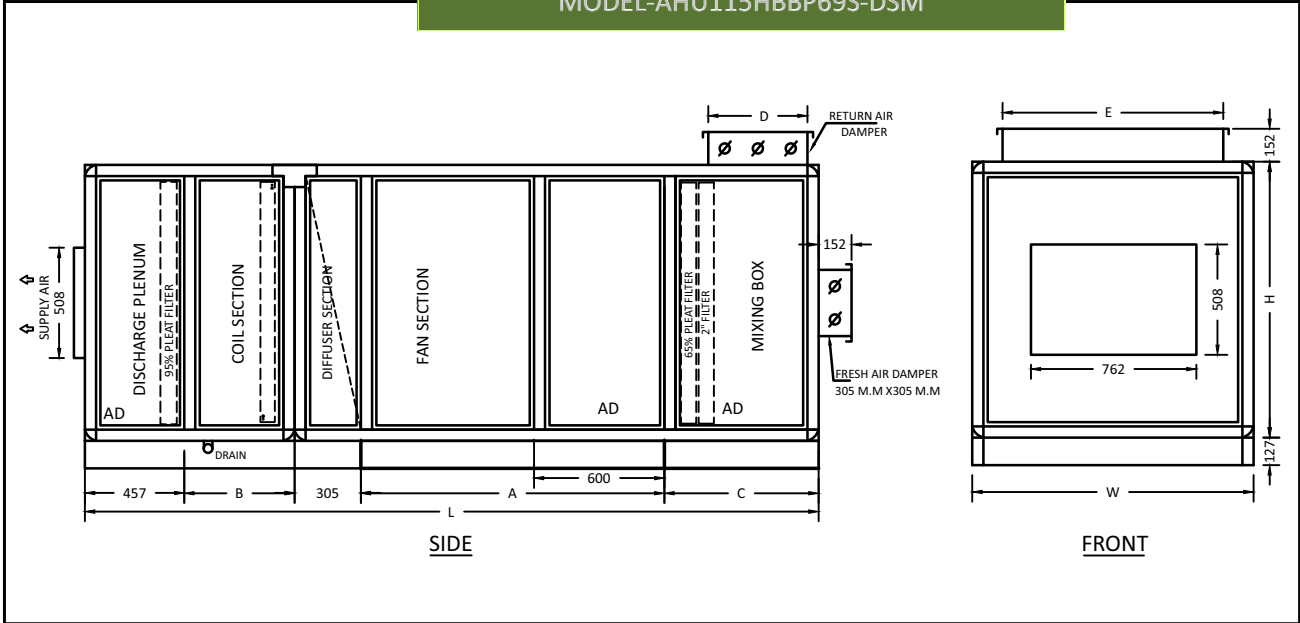


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-112HBBF69HF-DSM A4	1500~2000	6058	1066	850	1270	508	600	305	610
AHU-112HBBF69HF-DSM A6	1500~2000	6110	1066	850	1270	560	600	305	610
AHU-112HBBF69HF-DSM B4	2100~3000	6058	1219	850	1270	508	600	305	915
AHU-112HBBF69HF-DSM B6	2100~3000	6110	1219	850	1270	560	600	305	915
AHU-112HBBF69HF-DSM C4	3100~3800	6058	1447	902	1270	508	600	457	915
AHU-112HBBF69HF-DSM A6	3100~3800	6110	1447	902	1270	560	600	457	915

NOTE  
 ° For single skin construction use “SS” in place of “DS”

AHU MODELS SERIES  
 High Pr. Mode

MODEL-AHU115HBBP69S-DSM

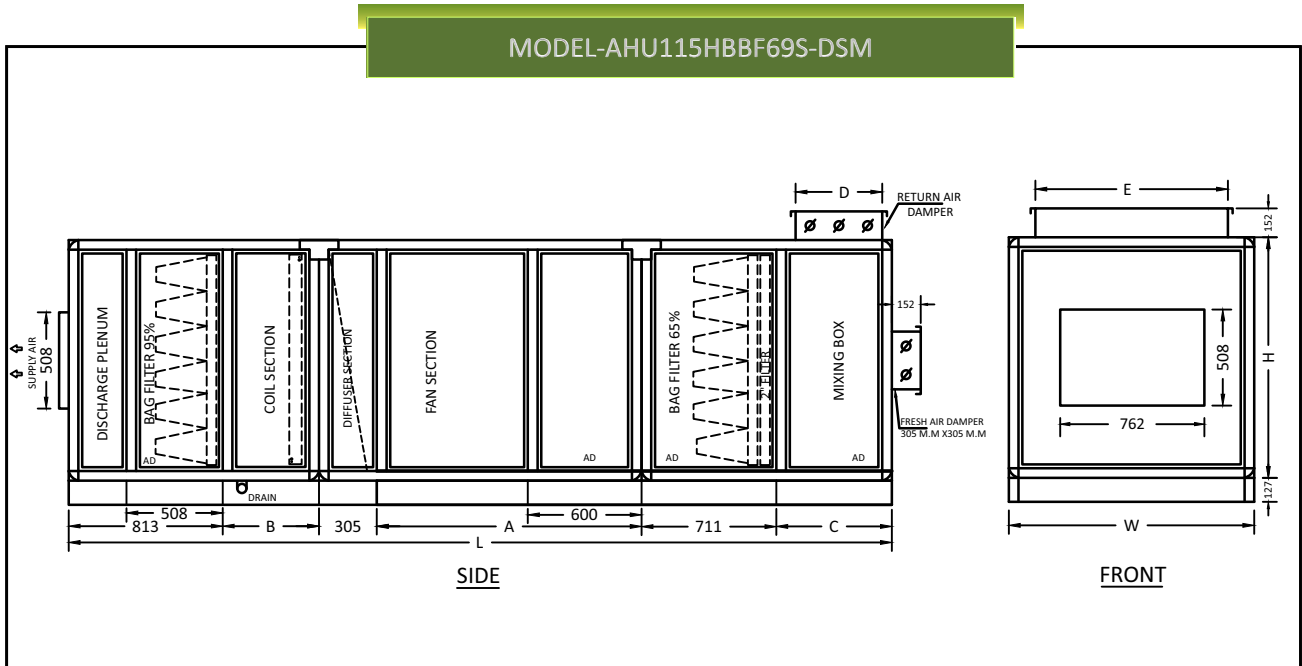


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-115HBBP69S-DSM A4	4000~5000	3377	1295	1270	1397	508	710	457	1016
AHU-115HBBP69S-DSM A6	4000~5000	3429	1295	1270	1397	560	710	457	1016
AHU-115HBBP69S-DSM B4	5100~5800	3377	1550	1270	1397	508	710	457	1219
AHU-115HBBP69S-DSM B6	5100~5800	3429	1550	1270	1397	560	710	457	1219
AHU-115HBBP69S-DSM C4	5900~6500	3377	1600	1270	1397	508	710	457	1320
AHU-115HBBP69S-DSM C6	5900~6500	3429	1600	1270	1397	560	710	457	1320

NOTE

- ° For single skin construction use "SS" in place of "DS"
- ° For 95% minipleat filters, use "P9" instead of "P6"



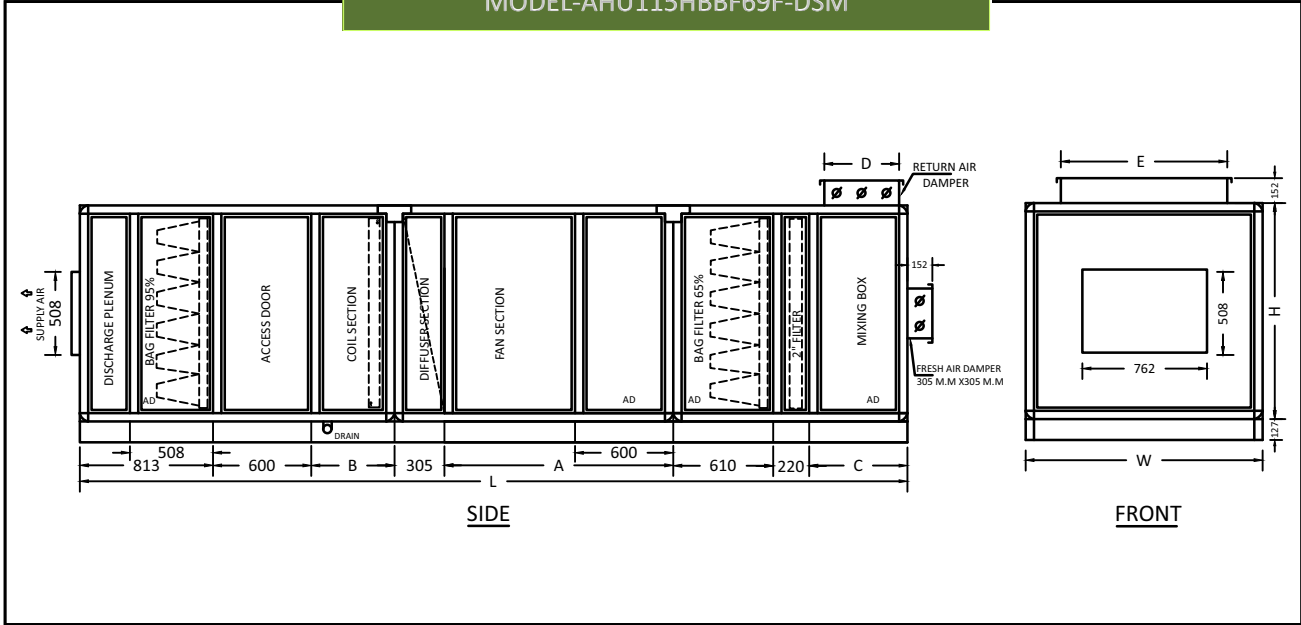


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-115HBBF69S-DSM A4	4000~5000	4344	1295	1270	1397	508	610	457	1016
AHU-115HBBF69S-DSM A6	4000~5000	4396	1295	1270	1397	560	610	457	1016
AHU-115HBBF69S-DSM B4	5100~5800	4344	1550	1270	1397	508	610	457	1219
AHU-115HBBF69S-DSM B6	5100~5800	4396	1550	1270	1397	560	610	457	1219
AHU-115HBBF69S-DSM C4	5900~6500	4344	1600	1270	1397	508	610	457	1320
AHU-115HBBF69S-DSM C6	5900~6500	4396	1600	1270	1397	560	610	457	1320

**NOTE**

° For single skin construction use “SS” in place of “DS”

MODEL-AHU115HBBF69F-DSM

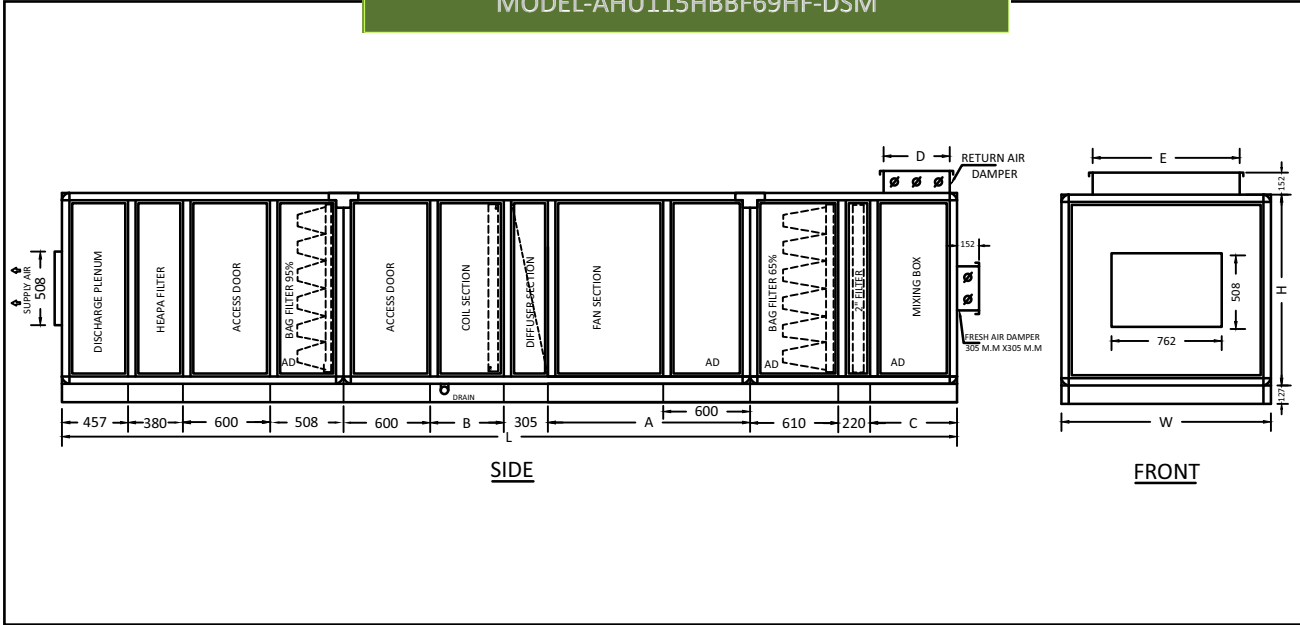


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-115HBBF69F-DSM A4	4000~5000	5053	1447	1320	1397	508	600	457	1016
AHU-115HDBF69F-DSM A6	4000~5000	5105	1447	1320	1397	560	600	457	1016
AHU-115HBBF69F-DSM B4	5100~5800	5053	1702	1320	1397	508	600	457	1219
AHU-115HBBF69F-DSM B6	5100~5800	5105	1702	1320	1397	560	600	457	1219
AHU-115HBBF69F-DSM C4	5900~6500	5053	1752	1320	1397	508	600	457	1320
AHU-115HBBF69F-DSM C6	5900~6500	5105	1752	1320	1397	560	600	457	1320

NOTE

° For single skin construction use "SS" in place of "DS"

MODEL-AHU115HBBF69HF-DSM



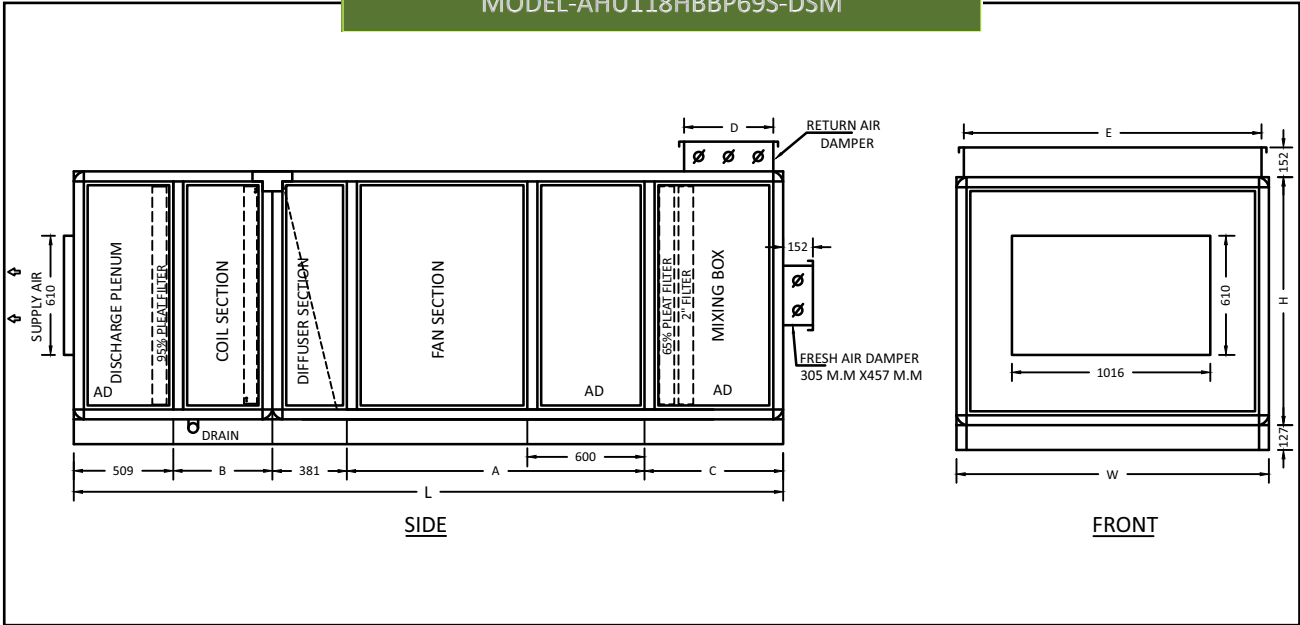
MODEL	CFM	L	W	H	A	B	C	D	E
AHU-115HBBF69HF-DSM A4	4000~5000	6185	1447	1320	1397	508	600	457	1016
AHU-115HDBF69HF-DSM A6	4000~5000	6237	1447	1320	1397	560	600	457	1016
AHU-115HBBF69HF-DSM B4	5100~5800	6185	1702	1320	1397	508	600	457	1219
AHU-115HBBF69HF-DSM B6	5100~5800	6237	1702	1320	1397	560	600	457	1219
AHU-115HBBF69HF-DSM C4	5900~6500	6185	1752	1320	1397	508	600	457	1320
AHU-115HBBF69HF-DSM C6	5900~6500	6237	1752	1320	1397	560	600	457	1320

NOTE

° For single skin construction use "SS" in place of "DS"

AHU MODELS SERIES  
High Pr. Mode

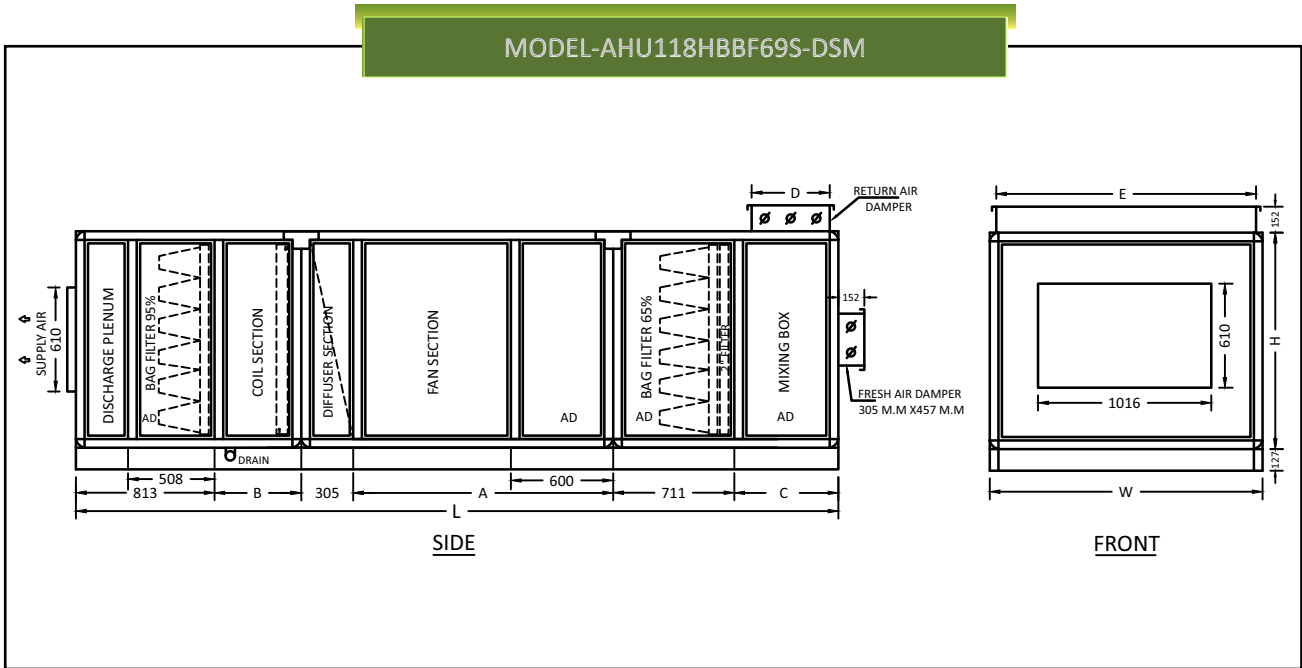
MODEL-AHU118HBBP69S-DSM



MODEL	CFM	L	W	H	A	B	C	D	E
AHU-118HBBP69S-DSM A4	6500~7500	3632	1600	1270	1524	508	710	457	1524
AHU-118HBBP69S-DSM A6	6500~7500	3684	1600	1270	1524	560	710	457	1524
AHU-118HBBP69S-DSM B4	7600~8500	3684	1905	1384	1524	560	710	457	1625
AHU-118HBBP69S-DSM B6	7600~8500	3684	1905	1384	1524	560	710	457	1625

NOTE

- ° For single skin construction use "SS" in place of "DS"
- ° For 95% minipleat filters, use "P9" instead of "P6"

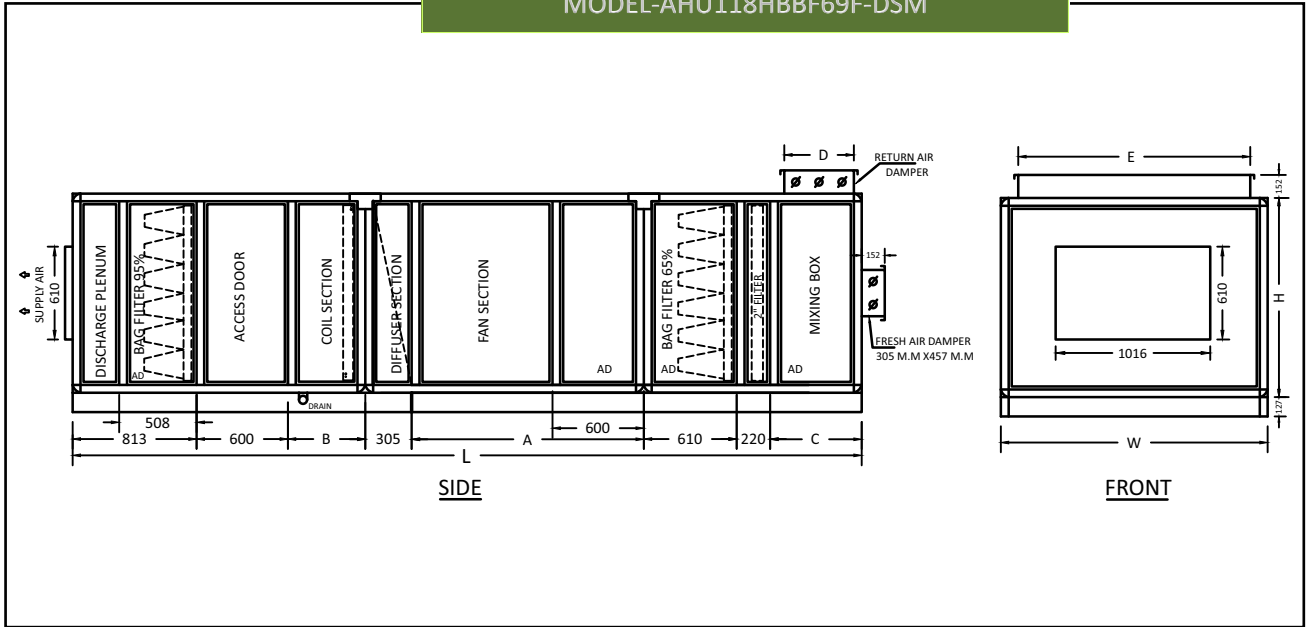


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-118HBBF69S-DSM A4	6500~7500	4471	1600	1270	1524	508	610	457	1524
AHU-118HBBF69S-DSM A6	6500~7500	4523	1600	1270	1524	560	610	457	1524
AHU-118HBBF69S-DSM B4	7600~8500	4523	1905	1384	1524	560	610	457	1625
AHU-118HBBF69S-DSM B6	7600~8500	4523	1905	1384	1524	560	610	457	1625

**NOTE**

° For single skin construction use “SS” in place of “DS”

MODEL-AHU118HBBF69F-DSM

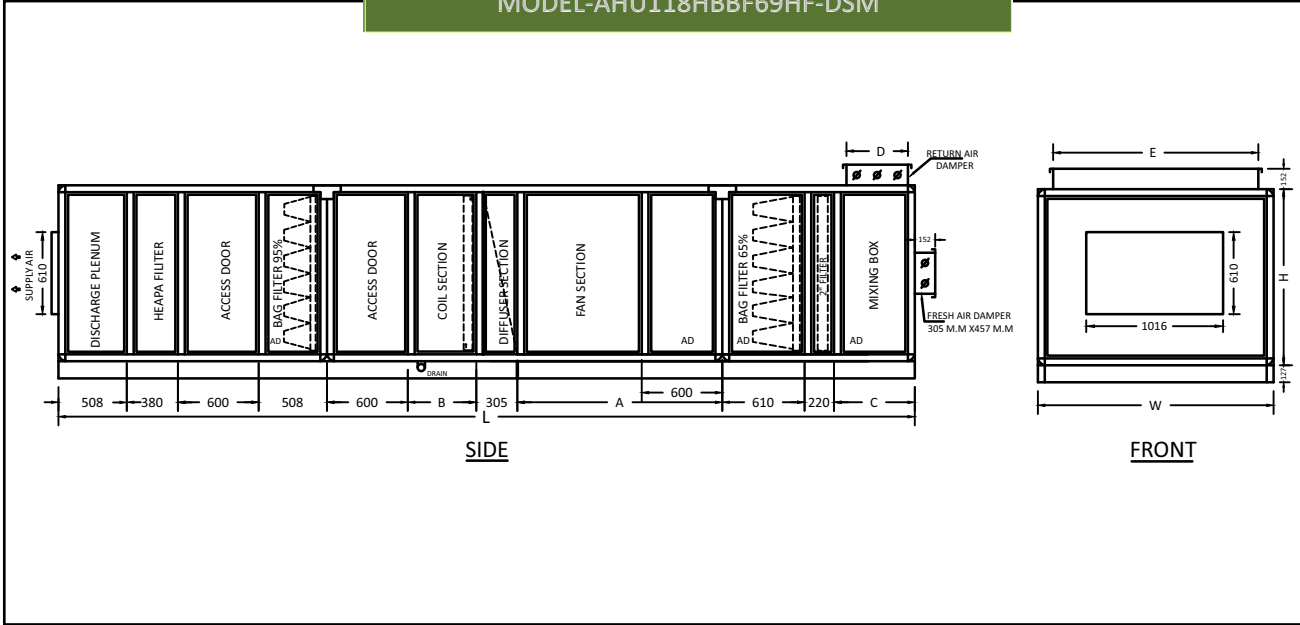


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-118HBBF69F-DSM A4	6500~7500	5180	1752	1308	1524	508	600	457	1524
AHU-118HBBF69F-DSM A6	6500~7500	5232	1752	1308	1524	560	600	457	1524
AHU-118HBBF69F-DSM B4	7600~8500	5232	2057	1422	1524	560	600	457	1625
AHU-118HBBPF69F-DSM B6	7600~8500	5232	2057	1422	1524	560	600	457	1625

NOTE

° For single skin construction use "SS" in place of "DS"

MODEL-AHU118HBBF69HF-DSM

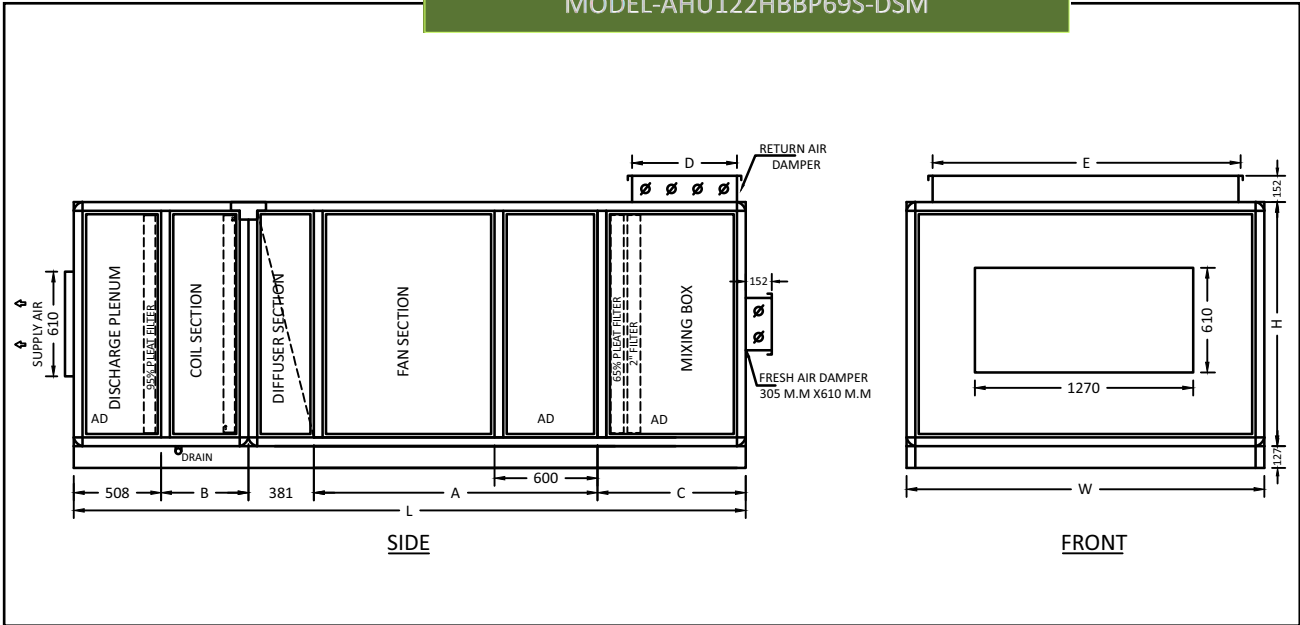


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-118HBBF69HF-DSM A4	6500~7500	6363	1752	1308	1524	508	600	457	1524
AHU-118HBBF69HF-DSM A6	6500~7500	6415	1752	1308	1524	560	600	457	1524
AHU-118HBBF69HF-DSM B4	7600~8500	6415	2057	1422	1524	560	600	457	1625
AHU-118HBBF69HF-DSM B6	7600~8500	6415	2057	1422	1524	560	600	457	1625

NOTE

° For single skin construction use "SS" in place of "DS"

MODEL-AHU122HBPP69S-DSM

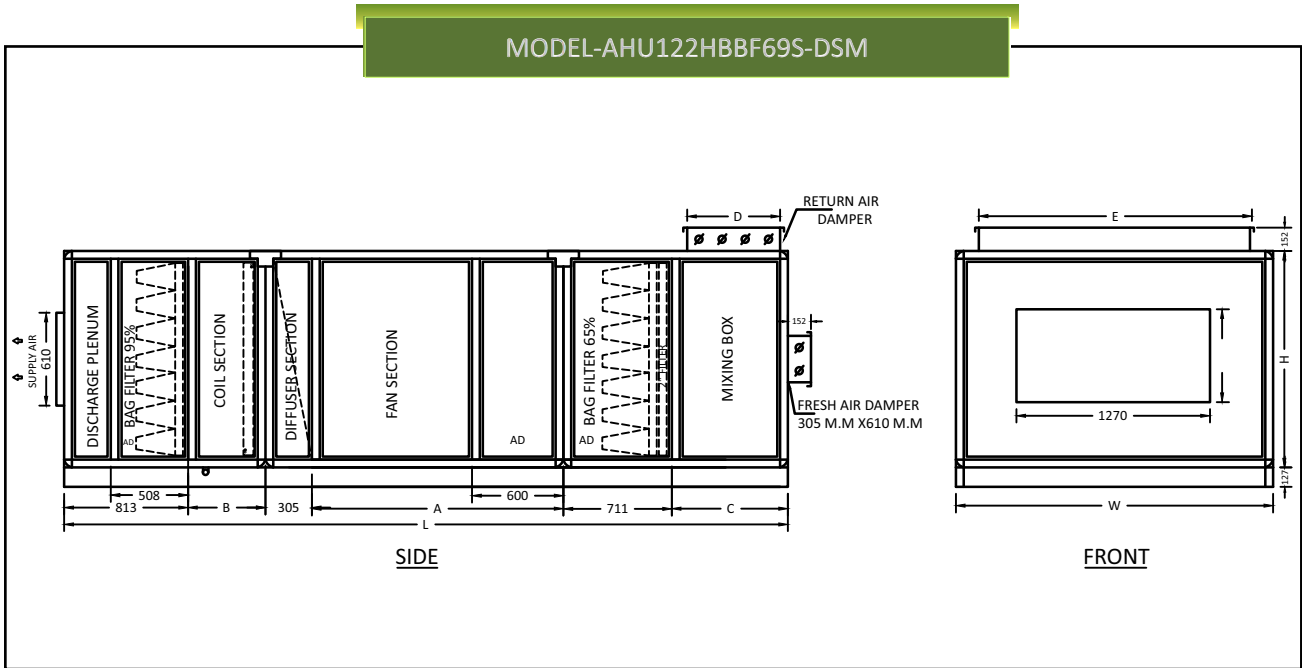


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-122HBPP69S-DSM A4	9500~11500	3910	2082	1422	1651	508	862	610	1780
AHU-122HBPP69S-DSM A6	9500~11500	3962	2082	1422	1651	560	862	610	1780
AHU-122HBPP69S-DSM B4	11600~13500	3910	2210	1700	1651	508	862	610	1905
AHU-122HBPP69S-DSM B6	11600~13500	4002	2210	1700	1651	600	862	610	1905

NOTE

- ° For single skin construction use "SS" in place of "DS"
- ° For 95% minipleat filters, use "P9" instead of "P6"



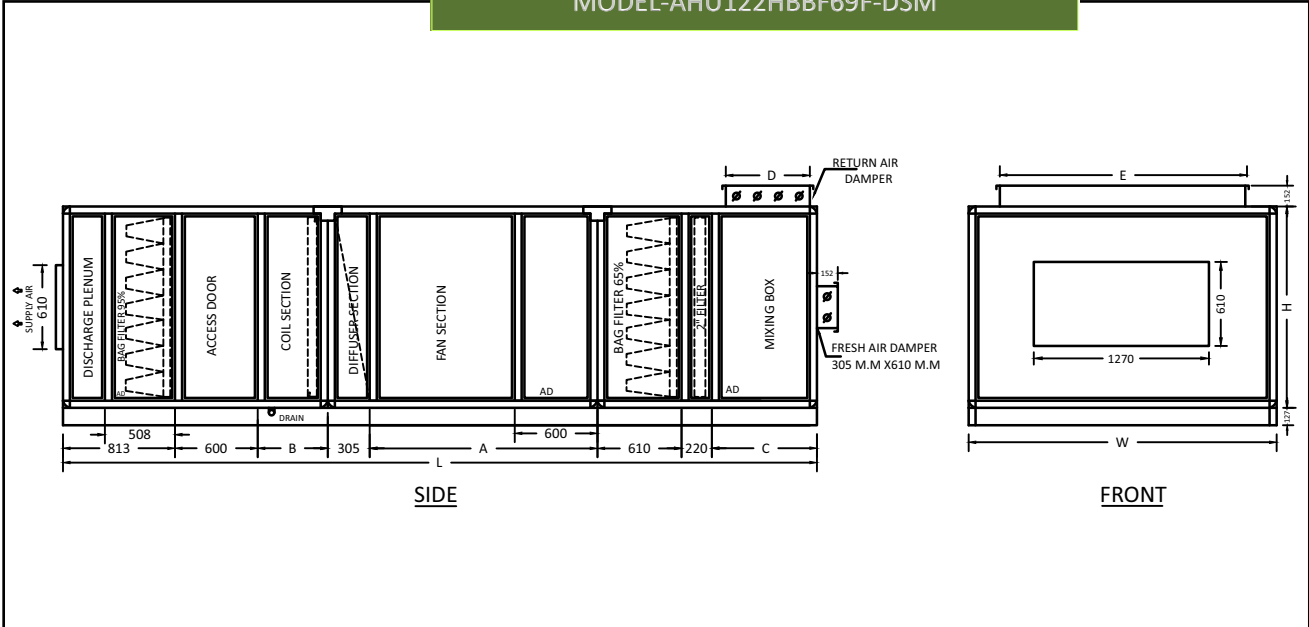


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-122HBBF69S-DSM A4	9500~11500	4750	2082	1422	1651	508	762	610	1780
AHU-122HBBF69S-DSM A6	9500~11500	4802	2082	1422	1651	560	762	610	1780
AHU-122HBBF69S-DSM B4	11600~13500	4750	2210	1700	1651	508	762	610	1905
AHU-122HBBF69S-DSM B6	11600~13500	4842	2210	1700	1651	600	762	610	1905

**NOTE**

° For single skin construction use “SS” in place of “DS”

MODEL-AHU122HBBF69F-DSM

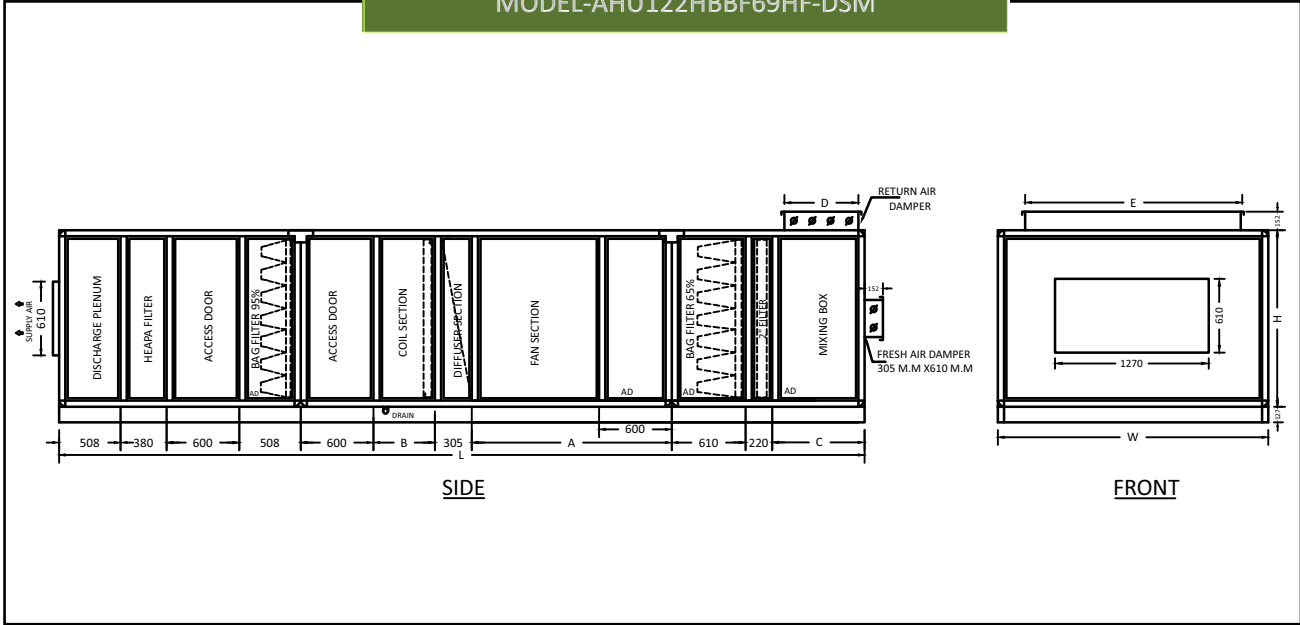


MODEL	CFM	L	W	H	A	B	C	D	E
AHU-122HBBF69F-DSM A4	9500~11500	5469	2234	1460	1651	508	762	610	1780
AHU-122HBBF69F-DSM A6	9500~11500	5521	2234	1460	1651	560	762	610	1780
AHU-122HBBF69F-DSM B4	11600~13500	5469	2362	1738	1651	508	762	610	1905
AHU-122HBBF69F-DSM B6	11600~13500	5561	2362	1738	1651	600	762	610	1905

NOTE

° For single skin construction use “SS” in place of “DS”

MODEL-AHU122HBBF69HF-DSM



MODEL	CFM	L	W	H	A	B	C	D	E
AHU-122HBBF69HF-DSM A4	9500~11500	6652	2234	1460	1651	508	762	610	1780
AHU-122HBBF69HF-DSM A6	9500~11500	6704	2234	1460	1651	560	762	610	1780
AHU-122HBBF69HF-DSM B4	11600~13500	6652	2362	1738	1651	508	762	610	1905
AHU-122HBBF69HF-DSM B6	11600~13500	6744	2362	1738	1651	600	762	610	1905

NOTE

° For single skin construction use “SS” in place of “DS”

AHU MODELS SERIES  
High Pr. Mode

FPM To CFM Chart For Rectangular Ducts

AHU MODELS SERIES

High Pr. Mode

Feet Per Minute (FPM):	CFM In 4×10 Duct:	CFM In 6×12 Duct:	CFM In 8×12 Duct:	CFM In 12×12 Duct:
1 FPM	0.278 CFM	0.500 CFM	0.667 CFM	1.000 CFM
5 FPM	1.39 CFM	2.50 CFM	3.33 CFM	5.00 CFM
10 FPM	2.78 CFM	5.00 CFM	6.67 CFM	10.00 CFM
20 FPM	5.56 CFM	10.00 CFM	13.33 CFM	20.00 CFM
30 FPM	8.33 CFM	15.00 CFM	20.00 CFM	30.00 CFM
40 FPM	11.11 CFM	20.00 CFM	26.67 CFM	40.00 CFM
50 FPM	13.89 CFM	25.00 CFM	33.33 CFM	50.00 CFM
60 FPM	16.67 CFM	30.00 CFM	40.00 CFM	60.00 CFM
70 FPM	19.44 CFM	35.00 CFM	46.67 CFM	70.00 CFM
80 FPM	22.22 CFM	40.00 CFM	53.33 CFM	80.00 CFM
90 FPM	25.00 CFM	45.00 CFM	60.00 CFM	90.00 CFM
100 FPM	27.78 CFM	50.00 CFM	66.67 CFM	100.00 CFM
200 FPM	55.56 CFM	100.00 CFM	133.33 CFM	200.00 CFM
300 FPM	83.33 CFM	150.00 CFM	200.00 CFM	300.00 CFM
400 FPM	111.11 CFM	200.00 CFM	266.67 CFM	400.00 CFM
500 FPM	138.89 CFM	250.00 CFM	333.33 CFM	500.00 CFM
600 FPM	166.67 CFM	300.00 CFM	400.00 CFM	600.00 CFM
700 FPM	194.44 CFM	350.00 CFM	466.67 CFM	700.00 CFM
800 FPM	222.22 CFM	400.00 CFM	533.33 CFM	800.00 CFM
900 FPM	250.00 CFM	450.00 CFM	600.00 CFM	900.00 CFM
1000 FPM	277.78 CFM	500.00 CFM	666.67 CFM	1000.00 CFM

### FPM To CFM Chart For Circular Ducts (4-Inch, 6-Inch, 8-Inch, 10-Inch Round Ducts)

Feet Per Minute (FPM):	CFM In 4 -Inch Round Duct:	CFM In 6 -Inch Round Duct:	CFM In 8 -Inch Round Duct:	CFM In 10 -Inch Round Duct:
1 FPM	0.087 CFM	0.196 CFM	0.349 CFM	0.545 CFM
5 FPM	0.44 CFM	0.98 CFM	1.75 CFM	2.23 CFM
10 FPM	0.87 CFM	1.96 CFM	3.49 CFM	5.45 CFM
20 FPM	1.74 CFM	3.93 CFM	6.98 CFM	10.91 CFM
30 FPM	2.62 CFM	5.89 CFM	10.47 CFM	16.36 CFM
40 FPM	3.49 CFM	7.85 CFM	13.96 CFM	21.81 CFM
50 FPM	4.36 CFM	9.81 CFM	17.45 CFM	27.26 CFM
60 FPM	5.23 CFM	11.78 CFM	20.94 CFM	32.71 CFM
70 FPM	6.11 CFM	13.74 CFM	24.43 CFM	38.17 CFM
80 FPM	6.98 CFM	15.70 CFM	27.92 CFM	43.62 CFM
90 FPM	7.85 CFM	17.67 CFM	31.41 CFM	49.07 CFM
100 FPM	8.72 CFM	19.63 CFM	34.90 CFM	54.53 CFM
200 FPM	17.45 CFM	39.26 CFM	69.79 CFM	109.05 CFM
300 FPM	26.17 CFM	58.89 CFM	104.69 CFM	163.57 CFM
400 FPM	34.90 CFM	78.52 CFM	139.58 CFM	218.10 CFM
500 FPM	43.62 CFM	98.15 CFM	174.48 CFM	272.63 CFM
600 FPM	52.34 CFM	117.77 CFM	209.38 CFM	327.15 CFM
700 FPM	61.07 CFM	137.40 CFM	244.27 CFM	381.68 CFM
800 FPM	69.79 CFM	157.03 CFM	279.17 CFM	436.20 CFM
900 FPM	78.52 CFM	176.66 CFM	314.06 CFM	490.73 CFM
1000 FPM	87.24 CFM	196.29 CFM	348.96 CFM	545.25 CFM

# Sabro Airconditioning



Inspired by the 'stimulus to grow' through knowledge, interlaced with the zeal and sheer commitment of an enthusiastic team and gripped by the obsession of three brothers of turning the dream-into reality, Sabro has evolved, grown and expanded since its inception in 1969.

For over five decades, Sabro has been a trusted brand name that has exceeded expectations nationwide & internationally, catering to the needs of both domestic as well international customers.



Made In  
PAKISTAN  
Since 1969

Contact information:  
contact@sabro.com.pk  
Sabro Head Office:  
#77/78, St: 10, I-9/2, Islamabad  
+92 51 4433006

C\_07\_24-01