

# AMS

## Alternative makes success

### AIR HANDLING UNIT



## AMS

Asian Modular Systems



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# COMPANY PROFILE

## GENERAL INFORMATION

### The AMS Air Handling Units

are modular in design and is available in both horizontal and vertical configuration with a variety of discharge arrangement. These units may be arranged to meet almost any space or duct requirements. Each unit comes complete, cooling coil, motor and drive package and it is also available with a choice of accessories such as filter section, mixing box section, face and bypass damper, etc. to meet any air-condition, or filtration needs.



ISO 9001: 2015

# PRODUCT RANGE

MODEL	MAX AIR FLOW (CMH)	EXTERNAL DIMENSIONS(mm.)	
		Height	Width
C-10P	3,000	749	749
C-15P	4,280	1003	749
C-20P	6,300	1003	1003
C-30P	8,500	1308	1003
C-40P	11,800	1308	1308
C-50P	15,100	1308	1613
C-75P	23,100	1613	1918

# COMPUTER PROGRAM

AIR SIDE			TUBE SIDE	
Capacity	kW	22.19	Fluid	R410A
Airflow	cft/min	2200	Flow	kg/h
Face Velocity	ft/min	422	Evaporating Temp.	°C
Inlet Temperature DB	°C	21.8	Condensing Temp.	°C
Inlet Temperature WB	°C	16	Overheating	K
Outlet Temperature DB	°C	9.2	Subcooling	K
Outlet Temperature WB	°C	8.9	Pressure Drop	kPa
Fouling factor	(m <sup>2</sup> K)/W	0	Fouling factor	(m <sup>2</sup> K)/W
Pressure Drop	Pa	132	Fluid Velocity [Gas phase]	m/s
Coil Height	in	36	Finned Length	mm
Rows		8	Circuits	
Fin Pitch	mm (2)	2.10		
Nr of Skipped Tubes		0		



**VOLUME DAMPER**



**WATER PROOF SW.**



**LAMP**



**PRESSURE PORT**

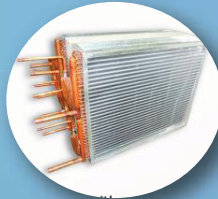


**INSPECTION WINDOW**



## **FILTER SECTION**

fully sealed filter section are designed are for easy withdrawal and renewal of filter cell and, are constructed to house any type of primary or secondary filters of different media with various efficiencies. In Areas of particular importance, such as hospitals and clean rooms, absolute filters can be provided to ensure safe human and machine



## **COIL SECTION**

Coil are software selected to obtain optimum psychometric efficiency with low air and water pressure drops. Chilled water, Direct Expansion, Hot Water and Steam Coil are constructed from copper tubes, mechanically bonded to aluminum fins as standard. Other fin materials are available including coated aluminum tinned copper, for corrosive flow media and fins are available as an option. The coil assemble completed with carbon steel or copper headers is located within the coil section can be withdrawn from either side.

## **FAN SECTION**

Fan and motor from the heart of all systems. Forward Curved or Backward Plug Fan Curved non overloading Aero foil Centrifugal fans are available with various outlet configuration. All fan wheels and pulley are individually tested and Precision balanced, statically and dynamically, and keyed to the shaft. Motor, mounted on slide rails with Provision for easy belt tensioning, drive the fan with heavy duty V-belts. Combination spring and rubber vibration isolators are selected to match the power /weight fan for VAV applications.



## **MOTOR**

Motors are 3 phase induction, Enclosed fan cooled type and the ball bearing are totally seals, no lubrication required. Those motors are mounted to the blower frame on an adjustable base for easy alignment and belt tensioning. All supplied motors are complying with International IEC Standard and class F Insulation.

# **ACCESSORIES**





# TREATMENT SECTION

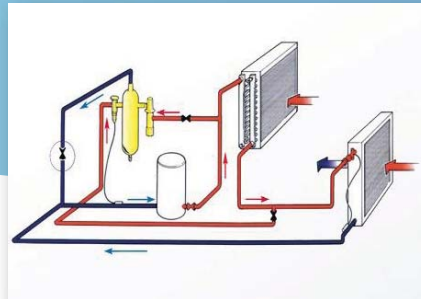


## Heat Pipe

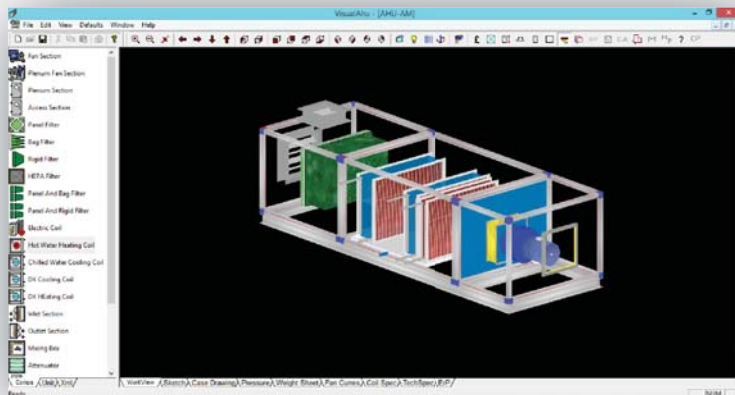
Heat pipes may be described as having two sections: pre cool and reheat. The first section is located in the incoming air stream. When warm air passes over the heat pipes, the refrigerant vaporizes, carrying heat to the second section of heat pipes, placed downstream. Because some heat has been removed from the air before encountering the evaporator coil, the incoming air stream section is called the pre cool heat pipe.

## Hot Gas Reheat

When compressor is running to reduce room temperature (sensible heat) and humidity (latent heat) respectively, the compressor normally runs beyond the room dehumidifying process. When the night humidity level has been achieved, the system requires reheating to compensate for overcooling. Usually, electric heaters are used.



Ensuring AHU performance with AHU programs and experienced engineers.



FOR ADDITION, PLEASE REFER TO TECHNICAL DATA SHEET  
"DOOR SYSTEM OF AIR HANDLING UNIT"

## Panel 42 mm

Are constructed of the same material as the fixed panels. The access panel shall be low leak construction with a hex socket compression type latch assembly and large & nonconductive handles for easy removal of the access panel

- Thermal conductivity (  $k$  ) = 0.0204 W/m.K (0.0118 Btu/ft.h°F)
  - Heat transfer coefficient of panel 42 mm thickness (  $k/L$  ) = 0.510 W/m².K (0.0898 Btu/ft².h°F)
  - Density = 40 kg./m³
- Sandwiched between galvanized steel with pre painted finish and stainless is also available.

## DOUBLE SKIN PANEL 42 MM

