ZENOVENT
BREATH FOR FUTURE

Innovating the Future of Air Handling

Zenovent supports the air handling industry with high-performance systems engineered to deliver consistency, efficiency, and control.

www.zenoventsystem.com

Zenovent System Pvt. Ltd.

ABOUT US

Zenovent is a trusted name in the air handling industry, delivering comprehensive and engineered solutions that meet the evolving needs of modern industrial and commercial environments. With a strong focus on quality, performance, and reliability, we specialize in designing and supplying advanced air handling systems that ensure efficient airflow, superior indoor air quality, and long-term operational excellence.

At Zenovent, we combine engineering expertise with innovative technology to offer end-to-end solutions—from concept and design to manufacturing and application support. Our systems are developed to perform consistently across diverse industries, including manufacturing, pharmaceuticals, commercial buildings, cleanrooms, and specialized facilities.

Driven by precision engineering and a commitment to excellence,

Zenovent continuously strives to set new benchmarks in airflow management, energy efficiency, and system durability. We believe that well-designed air handling solutions play a vital role in creating healthier, safer, and more efficient environments.

OUR MISSION

To deliver reliable, efficient, and innovative air handling solutions that enhance airflow performance, improve indoor air quality, and support the operational goals of our clients through engineering excellence and continuous improvement.

OUR VISION

To be a leading provider of advanced air handling solutions, recognized for our engineering expertise, product quality, and commitment to creating sustainable and efficient airflow systems for industries worldwide.

OUR CORE VALUES

The principles that guide our engineering, decisions, and commitment to excellence.

- Quality Excellence
- Innovation and Engineering Precision
- Customer-Centric Approach
- Integrity and Transparency
- Sustainability Commitment

ENVIRONMENT POLICY

As humans progressed, they turned more comfort oriented. The actions of our society have brought us to a more endangered position in the ecosystem. So bringing forward solutions for clean and more environment friendly techniques of technology has become a necessity. These solutions require a certain set of environmental policies and strict adherence to them.

Our policy record delineates the environmental allegiances that our company and team have faith in are to our social contracts and are accepted in or in the duration of our regular trading.

- We work towards the prevention of environmental destruction by minimizing the use of energy within our work culture. This step helps us to make sure that the balance to sustainable development can run our operations through our entire working period.
- We ensure that all our HVAC products and all the related applications incoherent to minimum European Legislation.
- We make sure of the proper disposal of waste and in a safe way. This includes the complete training and qualification of engineers in the disposal of these substances.
- We ensure the implantation of many procedures that helps us in reducing the environmental impact. These instructions are followed in all the steps including designing, installations, operations, services, and continuance of heat, refrigeration, and air conditioning systems.
- We make sure to be environmentally compliant to standards in all our packaging items are environmentally friendly.
- To be sure to completely adhere to the stipulations of statutory guidelines for the treatment and/ or the disposal of all the discharge of trade and effluent material under the Water (Prevention and Control of Pollution Act, 1974), and (Air Prevention and Control of Pollution Act, 1981), and absolutely liaise with the involved agencies to check the noise pollution.
- To finally secure ISO 14001 Certification for our company. This step will be highly important to the company as it will help the company to be perceived as extremely trustworthy by buyers & other parties and acquire further advantages financially by making proficient use of its resources.

We evolve a suitable assessing scheme as to repeatedly examine the company's environmental performance and to improve the targets that have been already achieved because there are only ideals in the field.

DESIGN & MANUFACTURING INNOVATION

Exacting Demands Placed on Design, Production and Documentation

HVAC systems are milestones for creating mechanical systems that deliver thermal comfort. HVAC systems can be categorized into two categories in various manners; central and local systems according to multiple zones, location, and distribution, commercial and residential systems depending on usage.

Many huge residential and all commercial HVAC systems require an experienced and professional designer behind them. These designers should be properly equipped not just in the technical skills to accurately build HVAC CAD drawings, but also should understand that the practical and reality based knowledge is acquired through the work evolving the techniques.

Our design architects and mechanical engineers are specialists in designing energy systems that not just provide the best ventilation with appropriate cooling along with heating comfort levels in accordance with scale guidelines. This results in a deeply designed HVAC system that takes into consideration the different aspects of molding to form a perfect plan.

We integrate as a feature and adopt digital recreation in our design course so to tackle the challenges. It is also to ensure the energy efficiency and most advantageous performance of HVAC equipment in an optimal environment.

We design the job on four elementary steps: Design >Physical Prototyping >Testing> Design Change

We believe in searching for an optimal solution in a rational period of time and within reasonable costing. These are the aims that can only be achieved by working with very experienced HVAC system design teams.

Our design teams can considerably improve the features of equipment by studying the simulation charts for things like dynamic stress, noise reduction, overall balancing, and others.

We train our engineers to check and establish all the products' consistency, quality, dimensional and related details, materials supply, and/ or manufacturing processes. Along with it all, our designers are also focused on features, customer experience, and competitive alternatives. We ensure that all team members know at least the basic of the design work in order to achieve the main goals of the overall project.

INFRASTRUCTURE TO DELIVER PRODUCTS PRODUCTION

- Product Selections
- Tondering and award of contract
- Project Management
- Control and Monitoring
- Surveys and consultancy
- Due deligance

OUTDOOR UNITS

INDOOR UNITS

VENTILATION SOLUTIONS

CONTROL SOLUTIONS

Covering over a hundred and thirty thousand square feet of sprawling land, our fully integrated plant is outfitted with next generation machinery. From turret press. CNC press brakes, polyurethane foam injections in the panel shop houses, to the recently added prefabricated ducts section equipped with one-of-its-kind, special purpose machines. While the design section boasts of the latest in computing with truly customized software's supporting product creation.

With our coil production capacity of about 60.000 sq. ft. in 01/2" & 03/8" tube each per month, our coil shop possesses the latest in CNC fin lines, brazing machines, mechanical expanders, hair pin benders etc., as for the factory-fabricated ducting, a totally automated plant is wholly operational within the facility. The automated machinery plays a vital role in instituting our world class products. This machinery speeds up the time taken to respond to the customer's need, without detracting from quality.

FACILITY

The creation of our effective temperature relief operation technology begins with high quality materials. From there, we perfectly combine design, performance and attention to detail, that precisely meet the air management conditions of humidity, air change, temperature. airflow, cleanliness etc., providing an uncompromising standard in the most testing climatic standings.

Each system we conceive is designed & assembled with deep ingenuity & considerable care. Better designed, better built with rugged & intelligent features. Our range of services offer comprehensive air management solutions, that meet all climate control requirements.

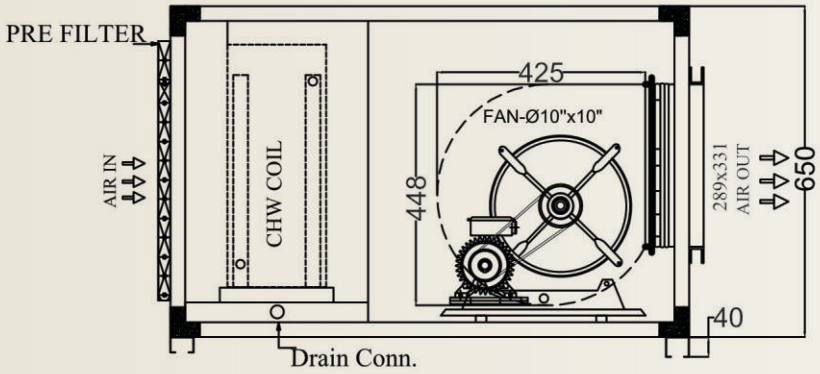
An air handling unit, also called AHU, is a device used to regulate and circulate air as part of a heating, ventilating, and air-conditioning (HVAC) system. It comprises an assemblage of parts installed in a large, comprehensible box shaped units called modules, usually a big metal box with a blower, heating or cooling elements, filter racks, scund attenuators, and dampers inside them for appropriate ventilation requirements for purifying, air-conditioning, or renewing the indoor air in a building or premises. Such constructions reduce heat loss. They are installed on buildings and the air is circulated through ducts.

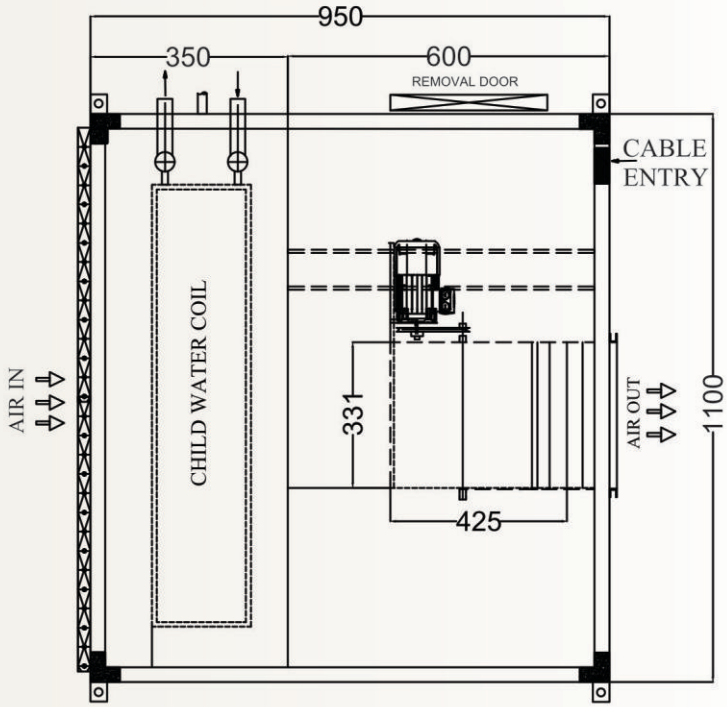
In addition to controlling proper ventilation, the AHU performs other functions like filtration & control of the quality of the air that will reach the interior. This function is dependent on the filters installed in the AHU is called the air purification filters, and in turn depend on the retention filters is the clarity of the air. These also control the temperature of air that is regulated in an HVAC system. Thus giving the conditioning and cooling effect. The third important function is to control relative humidity monitoring for greater indoor comfort.

AIR HANDLING UNIT (AHU)

AIR HANDLING UNIT

Double Skin Ceiling Suspended Air Handling Unit
(Single Blower)
Capacity Range : 1200 -6000 CFM

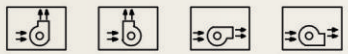


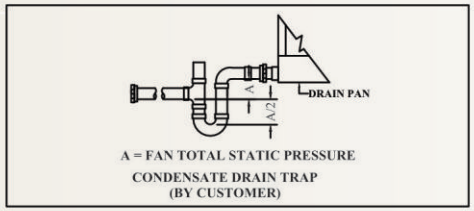


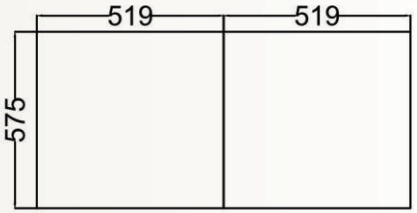
UNIT DISAPATCH CONDITION

1) ☑ ASSEMBLED
2) ☐ SEMI KNOCK DOWN
3) ☐ CKD

KINDLY TICK THE FOLLOWING WHILE APPROVING THE DRAWING (FACING FROM FILTER SIDE)

1) MOTOR LOCATION :- ☐ RHS ☑ LHS
2) COIL CONNECTION :- ☐ RHS ☑ LHS
3) DOOR CONNECTION :- ☐ RHS ☑ LHS
4) FAN DISCHARGE :- 

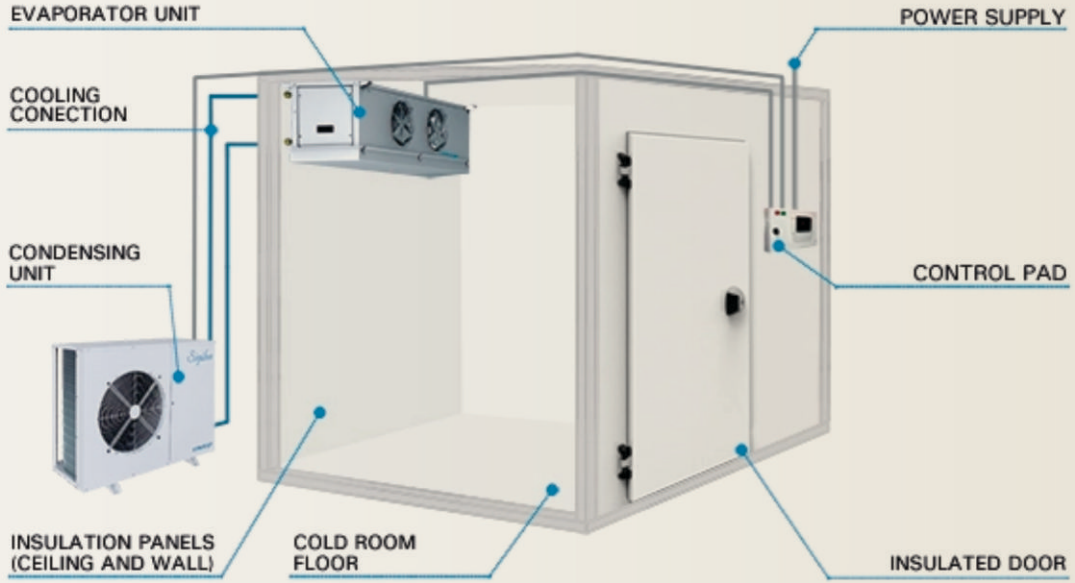




FILTER GRID DETAIL

COLD ROOM STRUCTURE

ZE cold room consists of cold room panel (PU sandwich panel), cold room door, condensing unit, evaporator (air cooler), temperature controller, air curtain, copper pipe, expansion valve and other refrigeration fittings.



COLD ROOM APPLICATIONS

Cold room is widely used in food industry, medical industry & other related industries. In food industry, cold room is usually used in food process factory, slaughterhouse, fruit and vegetable warehouse, supermarket, hotel, restaurant, etc. In medical industry, cold room is usually used in hospital, pharmaceutical factory, blood center, gene center, etc.

Other related industries, such as chemical factory, laboratory, logistics center, they also need cold room.

COLD ROOM

Cold storages are very necessary to prolong the shelf life of many things. These are installed in many kind of establishments including Storehouses for vegetables, cereals, grocery, dairy, poultry, processing centres, pharmaceutical storage and research facilities, medical houses and hospitals, warehouse distribution centers, public cold storage, and so many more. We build customized designs for projects and have multiple sizes products that are helpful depending on the size requirements. As the name suggest, cold rooms and cold storages are intended towards the cooling, freezing, and cold storage of perishable food products and other perishables including vaccines, drugs, inject able and more. Many huge cold-storage facilities, operate as independent cold storage unites. Some are used in trucks, railroad platforms, many other facilities where walk-in freezers are important.

SCRUBBERS

A scrubber or scrubber system is used to eliminate hazardous substances from industrial exhaust gases. There are two main ways to scrub pollutants out of exhaust. One is Wet Scrubbing which includes removal of harmful flue gases by spraying a liquid substance through the gas. And the second is Dry Scrubbing or removal of harmful gases by introducing a solid powdered substance. Both methods work in the same manner. The difference is the state of the substance used. As scrubbers are used for most acidic substances in the effluent, it help prevents the formation of acid rain.

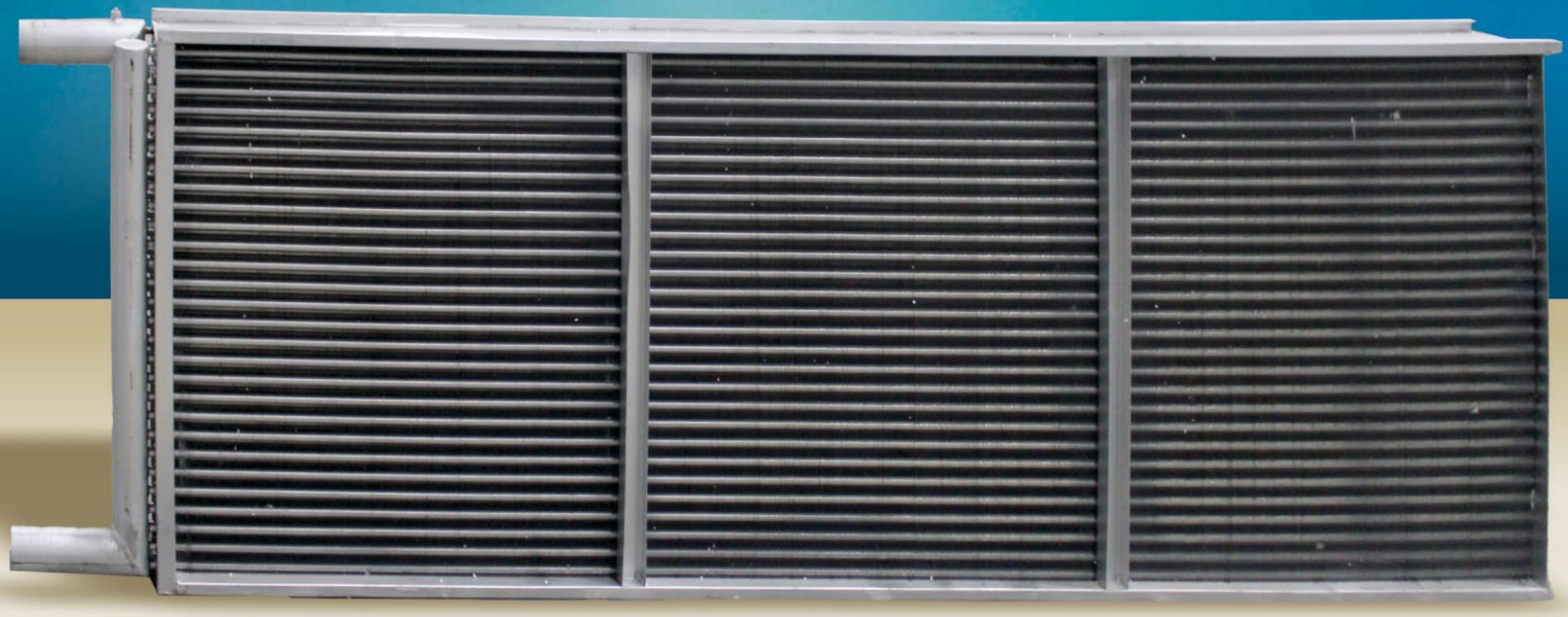
Scrubbing is the most effective sulphur removal technique. Scrubbers are effective in removing around 98% of sulphur, but are expensive to maintain and install.

COOLING COILS

High-efficiency cooling coils designed to deliver consistent temperature control and optimal heat transfer for air handling applications.

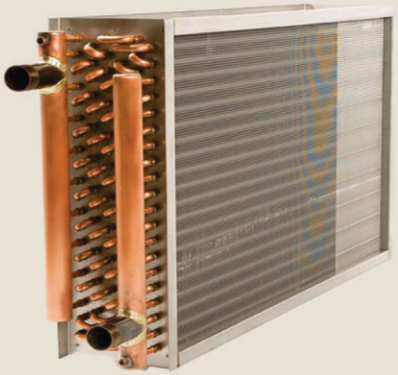
HVAC TRANSMISSION COILS

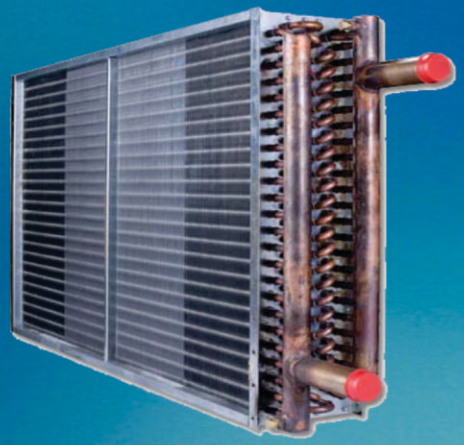
Coils are part of your heating and air conditioning system. Most often there are actually two HVAC coils in a system



CHILLED WATER COILS

ZE is one of the trustworthy manufacturers, suppliers and exporters of chilled water coil in India. These coils are largely demanded in the domestic and international market for their application in cold room, refrigerator, air conditioner, etc. In its construction, the variant includes corrugated or flat foils. Fin option is also available between bare and hydrophilic. Copper pipe tubing also adds to its work efficiency. Buyers are facilitated with the availability of the chilled water coil in various specifications. Additionally, conventional packaging is provided to prevent damage during transit.



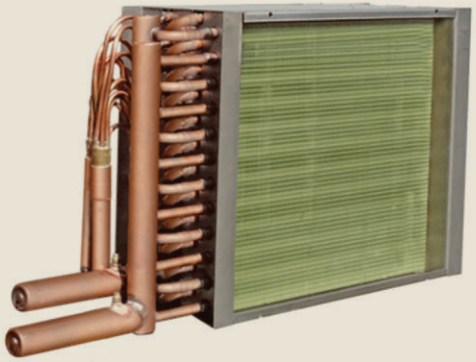


HOT WATER COILS

The hot water coils are just like cooling coils, the only difference being the fact that their functionality is the complete opposite. They are idea for use with hot water solutions and streams. It is usually used to heat the water in a glycol-air heat exchanger. ZE makes some of the best Hot Water Coil in the market. Also, they are available at a much more competitive price which makes it a favorite with many of the customers. ZE manufactures the hot coils using top notch materials which ensure

DIRECT EXPANSION COILS

If you want maximum possible heat transfer efficiency, then Direct Expansion Coil is what you need. These are engineered and built in a way which would give maximum efficiency and at the same time would not burn a hole in your pocket. ZE uses the coils which are made with the highest quality materials and this ensures that the heating coils are able to give perfect performance all-round the year. Each coil is inspected under rigid quality control measures and the ripped air flow design makes it a highly



Indoor air quality (IAQ) is the air quality within & around buildings and structures.

INDOOR AIR QUALITY UNITS (IAQ)

According to the report by WHO one third of the new buildings around the world are not fit for human use because of indoor pollution. Thus, indoor air quality IAQ inspection must be done. Indoor Air Quality (IAQ) refers to the quality of air inside and around structures and buildings represented by thermal conditions & the presence of pollutants which affect the comfort, health and performance and work ability of occupants. Sometimes indoor air can be even more polluted than outdoor air and people`s exposure is also more because of the time spent indoors.

There are many source of indoor contaminants and pollutants that disrupts indoor air quality like pollen, skin particles, dust, VOCS (Volatile Organic Compounds) in varnishes, wax, pesticides etc, formaldehyde in many household products & building materials, Tobacco smoke, body odours, perfume, carbon dioxide, dust mites from fabric, carpets, foam chair cushions, ozone from electric motors, photocopiers and electrostatic air cleaners, microbial contaminants as Fungi, Bacteria, Moulds from stagnant water, damp areas etc, inadequate or poorly designed ventilation systems may give rise to indoor air pollutants and many more.

Indoor air quality (IAQ) assessment is very important to asses and estimate the quality of air that is present indoors. This gives us idea as to what air is being respired by the occupants of that particular indoor area and thus calculating the risk of many minor and major long term issues like headache, skin irritation, nose, throat, eyes, fatigue, allergies, sinus, nausea and many other problems. At most places, most common method of improving air quality is filtration, source control and use of ventilation to dilute contaminants.

There are guidelines to check the frequency of cleaning depending on the number of household members, children, pets, smokers etc and should be followed.

In Indoor air quality monitoring sector, ZE provides services including screening of particulate matter & gaseous pollutants. We offer complete solution for improvement of your indoor air quality. Be safe and healthy with ZE!

01
Particulate Matter PM-10.0, PM-5.0 and PM-2.5

02
Gaseous Continents like Sox, Nox, Benzene, Formadide, Ozone, H2s etc

03
Biological Contaminents like Mold, Fungi, Virus Bacteria and VOC's

PPU (Positive Pressurization Units Vertical Type)

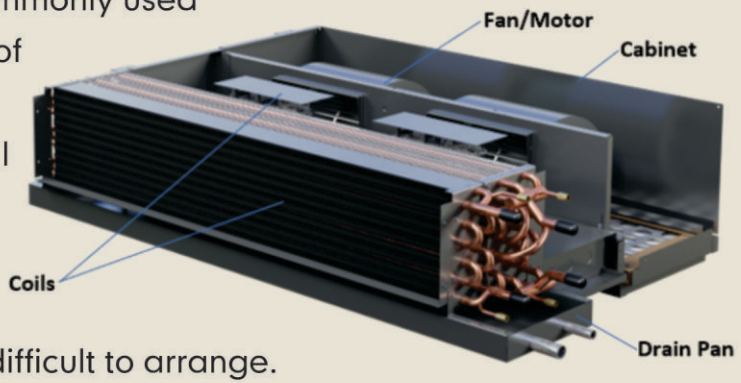
AIR WASHERS

Air washers help in removing various kinds of domestic allergens-andthe list includes dust, dust mites, pet dander, pet hair, mold spores, pollen, and other airborne particles-while adding moisture to the air. The most widely used kinds of air washers use the impeller technology which actually uses a series of spinning discs (many times 30 or more) to continuously filter out allergens and particles from air as it is drawn into the unit. Large allergens get collected on the discs while a continuous water bath rinses them away and it is collected at disposed from the bottom of the unit. Then the discs propel fresh water via a special diffusing screen. It breaks down into a fine mist and blankets your air. Even the small models can disperse around a gallon of humidity total per day.

The second kind of air washers, which are less used, have installed particle pre-filters to filter out allergens and particles from inbound air prior to humidifying your room. These models use evaporative humidifying technology. This maintains higher level of moisture in the room and thus are used limitedly. The pre-filter or the evaporative wick filter, which "wicks" up water while a fan blows to generate a fine mist. This filter also removes mineral deposits from the water.

FAN COIL UNITS

A fan coil unit or a FCU is installed with a fan that draws the air in a space and blows over a cooling or heating coil. The air comes out of the FCU either cooler or hotter as required. They are more commonly used in office buildings and shopping centres and small spaces requiring individual control. Typically, an individual FCU serves only up to 150m2, so there can be tens or even hundreds in a bui ding. FCUs are, however, most commonly used as supplements to a building for which other HVAC systems provide the majority of the air- conditioning. FCUs have a chilled water coil for cooling and hot water coils for heating or an electric heating element. Each FCU is provided with a small supply of outside air to ensure adequate ventilation. As adjacent units can operate in conflict and do not generally have the ability to use outside air for free cooling, making the system less efficient. Since they draw chilled and hot water inlets from nearby coolers and boilers to fulfill their purpose which can be difficult to arrange.



QUICK SELECTION

In order to expedite the selection of AHU on the airflow requirements only, the quick selection figure 1 can be used. The following example illustrates the selection process.

SYSTEM REQUIREMENT

Air flow rate = 20000 CFM

Refer to figure 1 and move vertically to identify region. Next specify possible models and by looking at table their respective FPM.

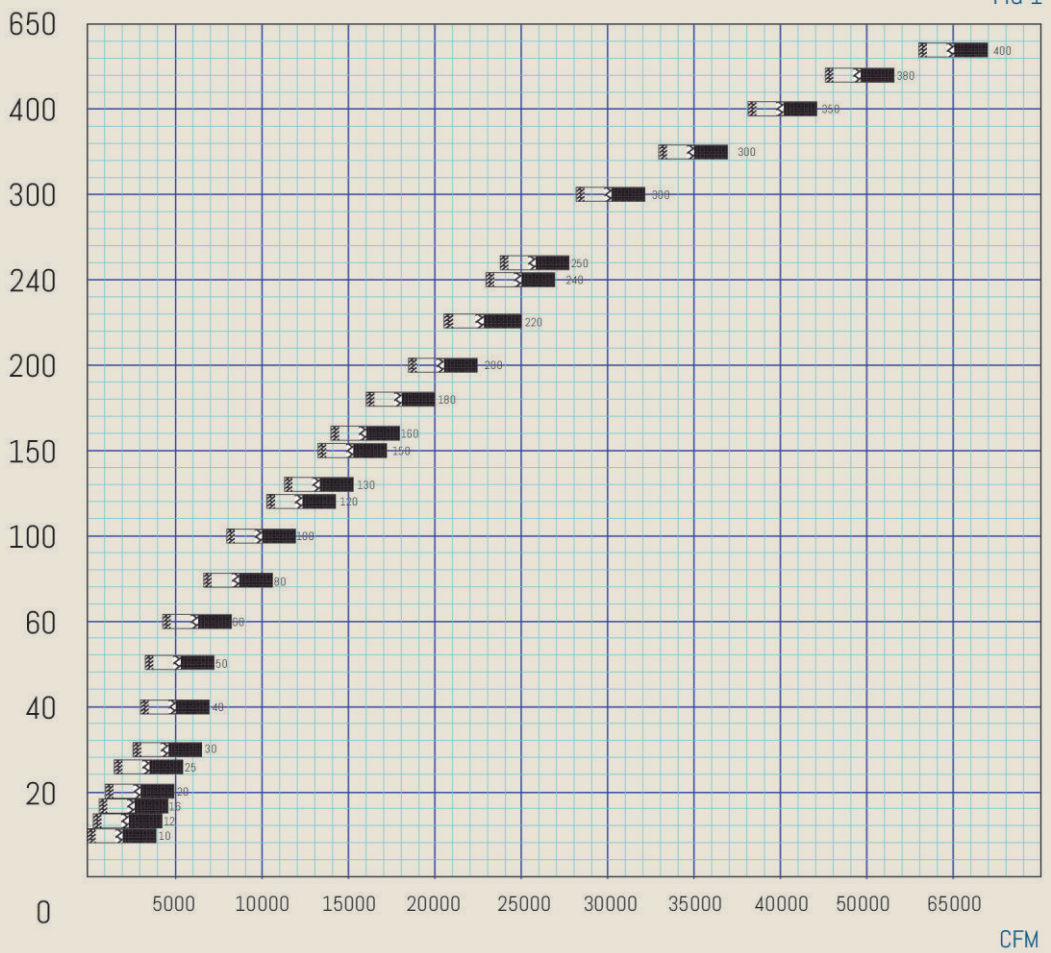
The results would be as follows:

MODEL	FPM
160	600-700
180	550-600
200	450-500

According to the application described in table, one of the models will be selected Usually, 450-500 FPM is the best selection according to coil performance and design. So, FAHU 200 is selected.

Quick Selection of Unit Models (Fig-1)

FIG-1



Legend of Quick Selection

Symbol	Air Velocity (FPM)	Velocity	Space Reqd.	Cost	Application
	400-450	Low	High	Very High	Usually used for high latent loads
	400-550	Medium	High	High	Best selection according to space and cost
	550-600	High	Medium	Medium	Usually suggested for cooling loads
	600-700	Very High	Low	Low	Best selection for Heating loads

QUICK SELECTION

In order to expedite the selection of fan at different air velocity, the quick selection figure 2 can be used. The following example illustrates the selection process.

SYSTEM REQUIREMENT

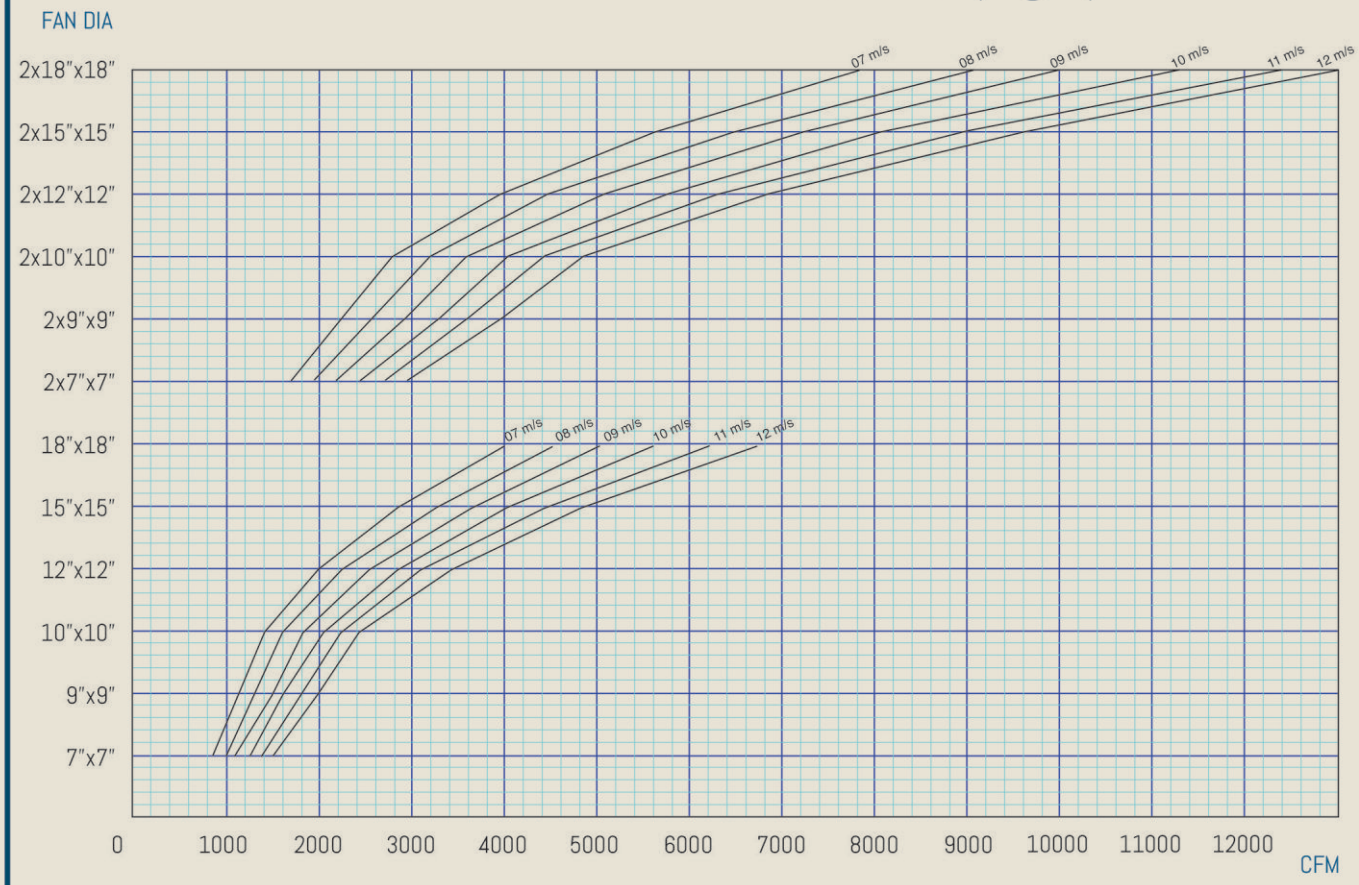
Air flow rate = 6000 CFM

Refer to figure 2 and move vertically to identify region next specify possible models and by looking at table their respective velocity. The results would be as follows modal FPM

AIR VELOCITY	FAN DIA
Near 09 m/sec	2"x15"x15"
Near 10 m/sec	2"x15"x15"
Near 11 m/sec	18"x18" or 2"x12"x12"

According to the application described in table, one of the models will be selected. Usually, 10 m/sec is the best selection according to fan performance & design. So, fan model 2"x15"x15" is selected.

Quick Selection of Fan Dia (Fig-2)



Legend of Quick Selection

Air Velocity (FPM)	Velocity	Space Reqd.	Cost	Application
7-8	Low	High	Very High	Usually used for low noise
9-10	Medium	High	High	Best selection according to space and cost
11	Medium	Medium	Medium	Usually suggested for AHU/Ventilation
12	High	Low	Low	Best selection for Ventilation units

QUICK SELECTION

In order to expedite the selection of fan at different air velocity, the quick selection figure 3 can be used. The following example illustrates the selection process.

SYSTEM REQUIREMENT

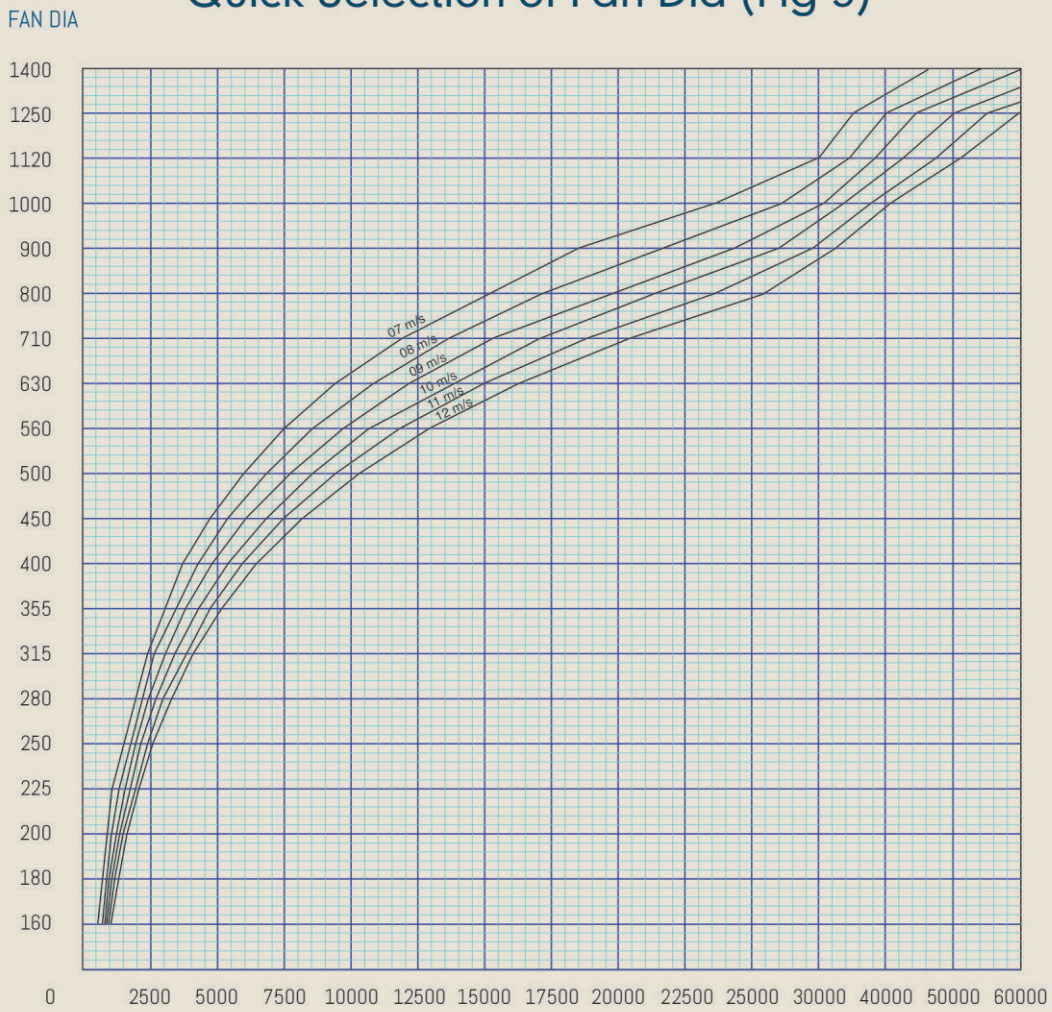
Air flow rate = 20000 CFM

Refer to figure 3 and move vertically to identify region. Next specify possible models and by looking at tabletheir respective velocity. The results would be as follows:

AIR VELOCITY	FAN MODEL
Near 07 m/sec	900 mm
Near 09 m/sec	800 mm
Near 12 m/sec	710 mm

According to the application described in table, one of the models will be selected. Usually, 9-10 m/sec is the best selection according to fan performance and design. So, fan 800 mm dia is selected.

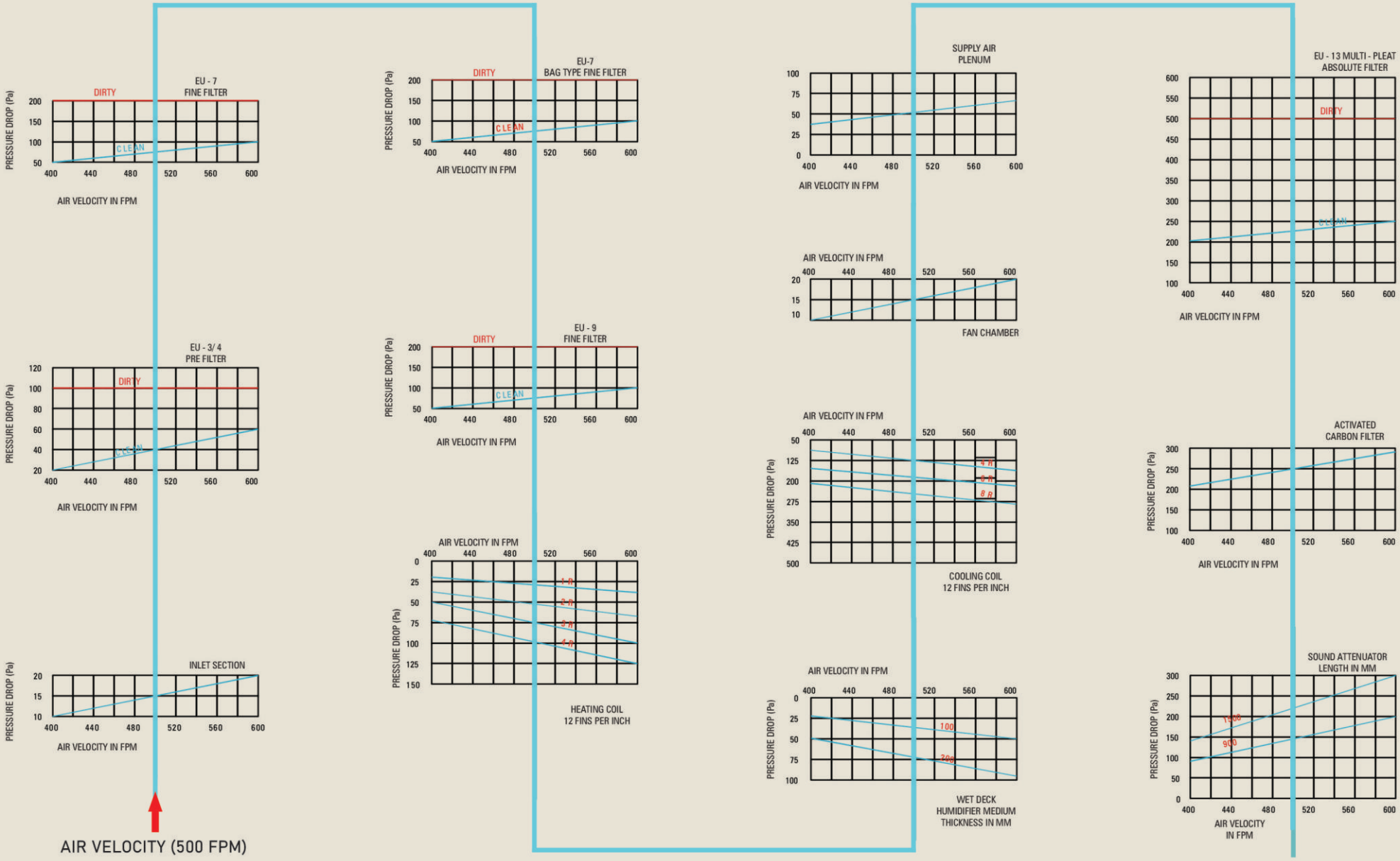
Quick Selection of Fan Dia (Fig-3)



Legend of Quick Selection

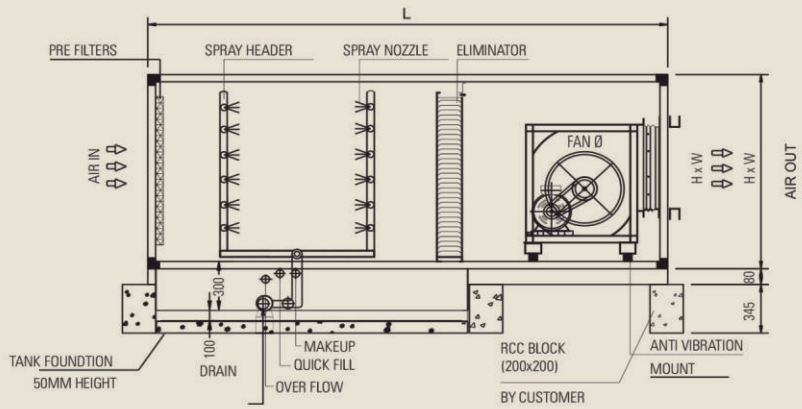
Air Velocity (FPM)	Velocity	Space Reqd.	Cost	Application
7-8	Low	High	Very High	Usually used for low noise
9-10	Medium	Medium	Medium	Best selection according to space and cost
11	Medium	Low	Low	Usually suggested for AW/AS/Ventilation
12	High	Low	Low	Best selection for Ventilation units

PRESSURE DROP ACROSS THE VARIOUS COMPONENTS IN AIR HANDLING UNITS



Note : The Shown pressure drop values are average value can be determined with computer selection & type of component used.

FLOOR MOUNTED AIR SCRUBBER UNITS

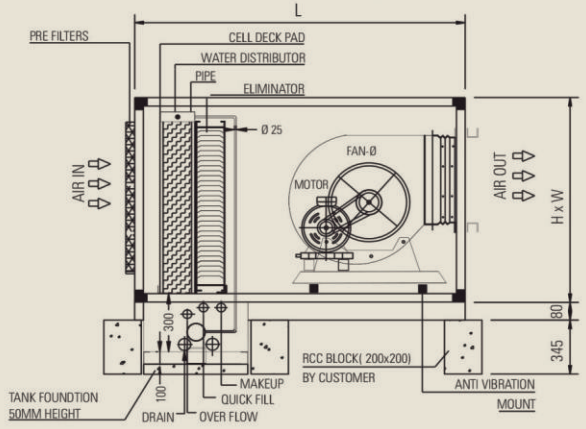


Technical details of air scrubber

	1	2	3	4	5	6	7	8	9	10	11	12
CFM	1200	1600	2000	2500	3000	4000	5000	6000	8000	10000	12000	13000
UNIT MODEL	ZEAS-12	ZEAS-16	ZEAS-20	ZEAS-25	ZEAS-30	ZEAS-40	ZEAS-50	ZEAS-60	ZEAS-80	ZEAS-100	ZEAS-120	ZEAS-130
FAN MODEL	9"X9"	9"X9"	10"X10"	12"X12"	15"X15"	15"X15"	18"X18"	18"X18"	500	560	630	630
FAN VEL M/S	7.3	9.68	9.87	8.8	7.4	9.9	8.9	10.6	9.3	9.3	8.9	9.6
MOTOR KW	1.1	1.1	1.1	1.5	2.2	2.2	3.7	3.7	5.5	5.5	7.5	7.5
LENGTH	2240	2240	2290	2370	2460	2460	2590	2590	2770	2880	3210	3210
WIDTH	950	950	980	1070	1250	1450	1400	1450	1550	1720	2030	2300
HEIGHT	750	750	750	750	820	820	1050	1050	1400	1400	1400	1400
ELIMINATOR AREA FT^2	2.4	3.2	4	5	6	8	10	12	16	20	24	26
FILTER AREA Sq.ft.	4	4	4	6	6	8	12	12	16	20	24	28

	13	14	15	16	17	18	19	20	21	22	23
CFM	15000	16000	18000	20000	22000	25000	30000	35000	40000	48000	60000
UNIT MODEL	ZEAS-150	ZEAS-160	ZEAS-180	ZEAS-200	ZEAS-220	ZEAS-250	ZEAS-300	ZEAS-350	ZEAS-400	ZEAS-480	ZEAS-600
FAN MODEL	710	710	710	800	800	900	1000	1000	2x800	2x900	2x1000
FAN VEL M/S	8.8	9.4	10.5	9.3	10.3	9.2	8.8	10.3	9.33	8.9	8.8
MOTOR KW	7.5	11	11	11	11	15	15	18.5	2x11	2x15	2x15
LENGTH	3350	3350	3350	3570	3570	3750	3910	3910	4000	4200	4350
WIDTH	2030	2300	2100	2640	2600	2900	2900	3250	3800	4120	4800
HEIGHT	1700	1700	2000	1750	2000	2000	2300	2300	2300	2650	2650
ELIMINATOR AREA FT^2	30	32	36	40	44	50	60	70	80	96	120
FILTER AREA Sq.ft.	30	35	36	40	48	54	63	70	84	96	120

FLOOR MOUNTED AIR WASHER UNITS



Air washer floor mounted unit

	1	2	3	4	5	6	7	8	9	10	11	12
CFM	1200	1600	2000	2500	3000	4000	5000	6000	8000	10000	12000	13000
Unit Model	ZEAW-12	ZEAW-16	ZEAW-20	ZEAW-25	ZEAW-30	ZEAW-40	ZEAW-50	ZEAW-60	ZEAW-80	ZEAW-100	ZEAW-120	ZEAW-130
Fan Model	9"X9"	9"X9"	10"X10"	12"X12"	15"X15"	15"X15"	18"X18"	18"X18"	500	560	630	630
Fan Vel M/S	7.3	9.68	9.87	8.8	7.4	9.9	8.9	10.6	9.3	9.3	8.9	9.6
Motor KW	1.1	1.1	1.1	1.5	2.2	2.2	3.7	3.7	5.5	5.5	7.5	7.5
Pad Area ft^2	2.4	3.2	4	5	6	8	10	12	16	20	24	26
Cell Pad Depth	200	200	200	200	200	200	200	200	200	200	200	200
Length	1340	1340	1390	1470	1560	1560	1690	1690	1870	1980	2110	2110
Width	880	880	980	1080	1180	1450	1360	1450	1560	1750	2050	2350
Height	700	720	800	850	850	850	1150	1150	1450	1450	1450	1450
Eliminator Area ft^2	2.4	3.2	4	5	6	8	10	12	16	20	24	26
Filter Area Sq.ft.	4	4	4	6	6	8	12	12	16	20	24	28

	13	14	15	16	17	18	19	20	21	22	23
CFM	15000	16000	18000	20000	22000	25000	30000	35000	40000	48000	60000
Unit Model	ZEAW-150	ZEAW-160	ZEAW-180	ZEAW-200	ZEAW-220	ZEAW-250	ZEAW-300	ZEAW-350	ZEAW-400	ZEAW-480	ZEAW-600
Fan Model	710	710	710	800	800	900	1000	1000	2x800	2x900	2x1000
Fan Vel M/S	8.8	9.4	10.5	9.3	10.3	9.2	8.8	10.3	9.33	8.9	8.8
Motor KW	7.5	11	11	11	11	15	15	18.5	2x11	2x15	2x15
Pad Area ft^2	30	32	36	40	44	50	60	70	80	96	120
Cell Pad Depth	200	200	200	200	200	200	200	200	200	200	200
Length	2250	2250	2250	2470	2650	2650	2810	2810	2860	3070	3270
Width	2050	2350	2250	2650	2650	2950	2950	2950	3400	4150	4900
Height	1750	1750	2050	1750	2050	2050	2350	2650	2650	2650	2650
Eliminator Area ft^2	30	32	36	40	44	50	60	70	80	96	120
Filter Area Sq.ft.	30	35	36	40	48	54	63	72	84	96	120

Note:

1 - Motor rating is given based on total static pressure of 50 mm WG.

2- Standard models include forward curved, DIDW centrifugal fan. Other fans like Backward curved, plenum fans can be provided as optional.

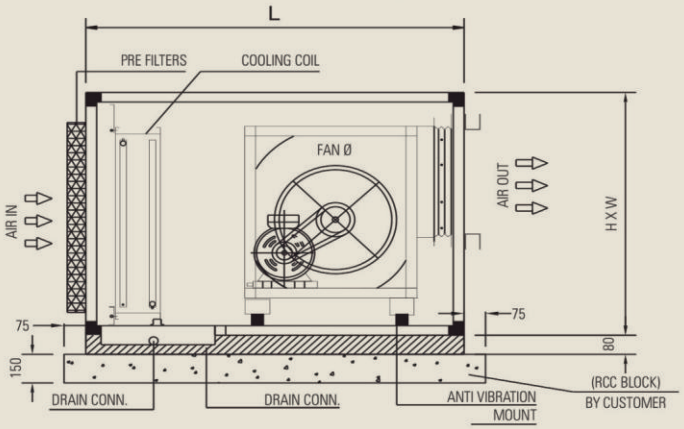
3 - Standard accessories includes bulk head light, limit switch, wire guard, cable entry, earthing.

4- Standard motors are suitable for 3 Ph, 415V, 50HZ, AC supply.

5- Standard model includes pre filter, cooling coil, fan section. Other add on modules like, intake section, pre & fine filter section, sound attenuator can be added.

6- Air washer and air scrubber can be manufactured in 25 mm, 43 mm, 50 mm, & 60 mm thick panels.

STANDARD FLOOR MOUNTED UNITS

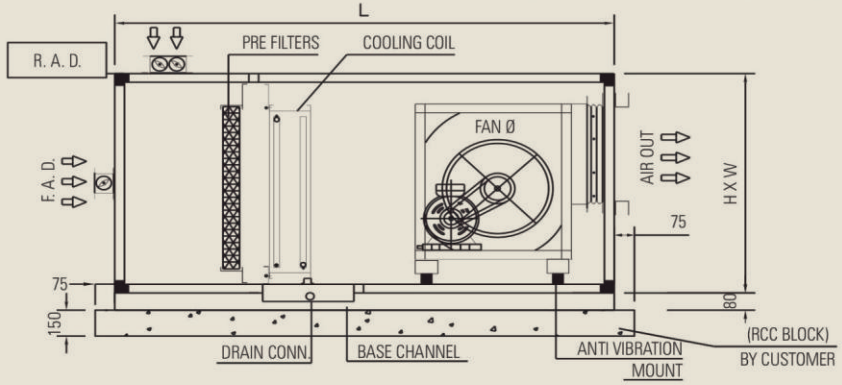


Standard floor mounted air handling unit

	1	2	3	4	5	6	7	8	9	10	11	12	13
CFM	1000	1200	1600	2000	2500	3000	4000	5000	6000	8000	10000	12000	13000
UNIT MODEL	ZEFM-10	ZEFM-12	ZEFM-16	ZEFM-20	ZEFM-25	ZEFM-30	ZEFM-40	ZEFM-50	ZEFM-60	ZEFM-80	ZEFM-100	ZEFM-120	ZEFM-130
FAN MODEL F.C	7"X7"	9"X9"	9"X9"	10"X10"	12"X12"	15"X15"	15"X15"	18"X18"	18"X18"	500	560	630	630
FAN VELOCITY M/S	8	7.3	9.68	9.87	8.8	7.4	9.9	8.9	10.6	9.3	9.3	8.9	9.6
MOTOR KW	0.55	1.1	1.1	1.1	1.5	2.2	2.2	3.7	3.7	3.7	5.5	5.5	7.5
COIL SQFT	2	2.4	3.2	4	5	6	8	10	12	16	20	24	26
COIL HEIGHT X SEC	381	508	508	571.5	571.5	603.25	635	889	889	1206.5	1206.5	1206.5	1206.5
COIL LENGTH	488	439	586	650	813	925	1170	1046	1255	1232	1540	1850	2002
LENGTH	990	1050	1050	1100	1180	1270	1270	1400	1400	1580	1700	1830	1830
WIDTH	820	930	930	980	1070	1180	1450	1360	1500	1480	1800	2110	2300
HEIGHT	560	720	720	740	740	800	810	1060	1060	1380	1380	1400	1400
FILTER AREA Sq.ft.	2	4	4	4	6	6	8	12	12	16	20	24	28

	14	15	16	17	18	19	20	21	22	23	24	25
CFM	15000	16000	18000	20000	22000	24000	25000	30000	35000	40000	48000	60000
UNIT MODEL	ZEFM-150	ZEFM-160	ZEFM-180	ZEFM-200	ZEFM-220	ZEFM-240	ZEFM-250	ZEFM-300	ZEFM-350	ZEFM-400	ZEFM-480	ZEFM-600
FAN MODEL F.C	710	710	710	800	800	900	900	1000	1000	2x800	2x900	2x1000
FAN VELOCITY M/S	8.8	9.4	10.5	9.3	10.3	8.9	9.2	8.8	10.3	9.33	9.3	8.8
MOTOR KW	7.5	9.3	9.3	9.3	11	11	15	15	18.5	2x9.3	2x11	2x15
COIL SQFT	30	32	36	40	44	48	50	60	70	80	96	120
COIL HEIGHT X SEC	1524	1524	889X2	889X2	889X2	952.5X2	889X2	1016X2	1206.5X2	1270X2	1079.5X2	1206.5X4
COIL LENGTH	1830	1950	1881	2091	2352	2342	2612	2744	2696	2927	4132	2311
LENGTH	1970	1970	1970	2190	2190	2370	2370	2530	2540	2590	2780	2980
WIDTH	2100	2250	2150	2350	2600	2600	2920	3000	2960	3200	4430	5050
HEIGHT	1720	1720	2050	2050	2050	2150	2050	2300	2660	2800	2400	2650
FILTER AREA Sq.ft.	30	35	36	42	48	48	54	63	70	80	98	120

FLOOR MOUNTED UNIT WITH MIXING BOX



Technical Sheet for Floor mounted unit with mixing box

	1	2	3	4	5	6	7	8	9	10	11	12	13
CFM	1000	1200	1600	2000	2500	3000	4000	5000	6000	8000	10000	12000	13000
UNIT MODEL	ZEFM-10	ZEFM-12	ZEFM-16	ZEFM-20	ZEFM-25	ZEFM-30	ZEFM-40	ZEFM-50	ZEFM-60	ZEFM-80	ZEFM-100	ZEFM-120	ZEFM-130
FAN MODEL BDB	7"x7"	9"x9"	9"x9"	10"x10"	12"x12"	15"x15"	15"x15"	18"x18"	18"x18"	500	560	630	630
FAN VELOCITY M/S	8.0	7.3	9.7	9.9	8.8	7.4	9.9	8.9	10.6	9.3	9.3	8.9	9.6
MOTOR KW	0.55	1.1	1.1	1.1	1.5	2.2	2.2	3.7	3.7	3.7	5.5	5.5	7.5
COIL SQFT	2	2.4	3.2	4	5	6	8	10	12	16	20	24	26
COIL HEIGHT X SEC	381	508	508	571.5	571.5	603.25	635	889	889	1206.5	1206.5	1206.5	1206.5
COIL LENGTH	488	439	586	650	812	925	1170	1046	1255	1232	1540	1850	2002
LENGTH	1390	1450	1450	1500	1580	1670	1770	1900	1900	2080	2350	2480	2530
WIDTH	820	930	930	980	1110	1250	1470	1400	1500	1480	1800	2110	2300
HEIGHT	600	760	760	780	800	800	810	1100	1100	1400	1400	1400	1400
FILTER AREA Sq.ft.	2	4	4	4	6	6	8	12	12	16	20	24	28

	14	15	16	17	18	19	20	21	22	23	24	25
CFM	15000	16000	18000	20000	22000	24000	25000	30000	35000	40000	48000	60000
UNIT MODEL	ZEFM-150	ZEFM-160	ZEFM-180	ZEFM-200	ZEFM-220	ZEFM-240	ZEFM-250	ZEFM-300	ZEFM-350	ZEFM-400	ZEFM-480	ZEFM-600
FAN MODEL BDB	710	710	710	800	800	900	900	1000	1000	2x800	2x900	2x1000
FAN VELOCITY M/S	8.8	9.4	10.5	9.3	10.3	8.9	9.2	8.8	10.3	9.3	8.9	8.8
MOTOR KW	7.5	7.5	9.3	9.3	11	11	15	15	18.5	2x9.3	2x11	2x15
COIL SQFT	30	32	36	40	44	48	50	60	70	80	96	120
COIL HEIGHT X SEC	1524	1524	889X2	889X2	889X2	952.5X2	889X2	1016X2	1206X2	1016x2	1079.5x2	1206.5x4
COIL LENGTH	1830	1950	1881	2091	2300	2340	2612	2744	2696	3660	4132	2311
LENGTH	2670	2720	2720	2990	2990	3220	3220	3430	3440	3490	3780	3980
WIDTH	2100	2300	2150	2350	2600	2600	2920	3000	2960	3200	4450	5050
HEIGHT	1720	1720	2050	2050	2050	2150	2050	2300	2660	2800	2400	2650
FILTER AREA Sq.ft.	30	35	36	40	48	48	54	63	70	80	98	120

Note:

1 - Motor rating is given based on total static pressure of 50mm WG.

2- Standard models include forward curved, DIDW centrifugal fan. Other fans like Backward curved, plenum fans can be provided as optional.

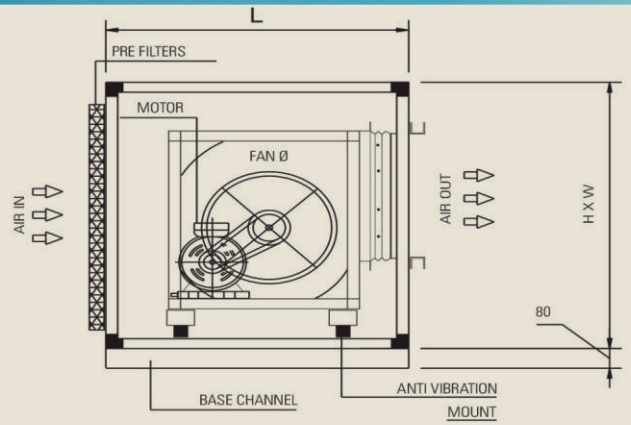
3- Standard accessories includes bulk head light, limit switch, wire guard, cable entry, earthing.

4- Standard motors are suitable for 3 Ph, 415V, 50HZ, AC supply.

5- Standard model includes mixing box, pre filter, cooling coil, fan section in standard floor mounted unit and additional mixing box is added in floor mounted unit with mixing box unit. Other add on modules like, heating coil, heaters, pre & fine filter section, sound attenuator can be added.

6- AHU can be manufactured in 25mm, 43mm, 50mm, & 60mm thick standard panels and 25/43 mm thick thermal break panels.

FLOOR MOUNTED VENTILATION UNITS

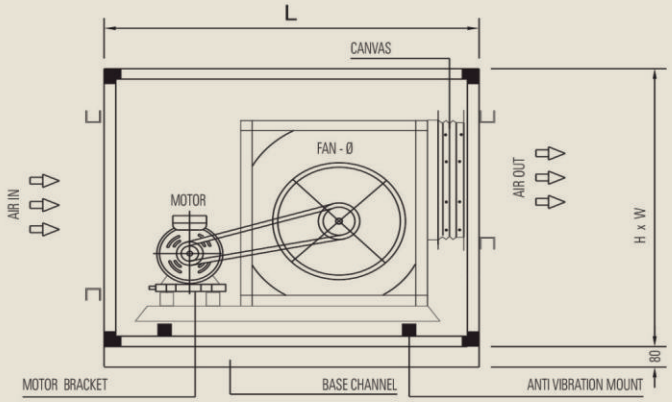


Technical sheet of ventilation units

	1	2	3	4	5	6	7	8
CFM	1000	1200	1600	2000	3000	4000	6000	8000
MODEL	ZEAV-10	ZEAV-12	ZEAV-16	ZEAV-20	ZEAV-30	ZEAV-40	ZEAV-60	ZEAV-80
FAN SIZE	7 X 7	9 X 9	9 X 9	10 X 10	12 X 12	15 X 15	18 X 18	450
VEL M/SEC	8	7.3	9.7	9.9	10.5	9.9	10.6	11.7
MOTOR KW	0.75	0.75	1.1	1.1	2.2	2.2	3.7	5.5
LENGTH	800	880	880	920	1050	1100	1240	980
WIDTH	750	750	750	750	1050	1350	1400	1460
HEIGHT	560	750	750	750	800	800	1050	1400
FILTER AREA	2	4	4	4	6	8	12	16

	9	10	11	12	13	14	15	16
CFM	10000	12000	15000	18000	20000	25000	30000	35000
MODEL	ZEAV-100	ZEAV-120	ZEAV-150	ZEAV-180	ZEAV-200	ZEAV-250	ZEAV-300	ZEAV-350
FAN SIZE	500	560	630	710	800	900	900	1000
VEL M/SEC	11.6	11.1	11.1	10.5	9.3	9.2	11.1	10.3
MOTOR KW	5.5	7.5	7.5	9.3	11	15	18.5	18.5
LENGTH	1050	1150	1250	1400	1550	1700	1700	1850
WIDTH	1650	1950	1950	2100	2300	2900	3200	3200
HEIGHT	1350	1350	1650	2000	2000	2000	2000	2300
FILTER AREA	20	24	30	36	42	54	60	70

FLOOR MOUNTED EXHAUST UNITS



Technical Sheet for exhaust unit

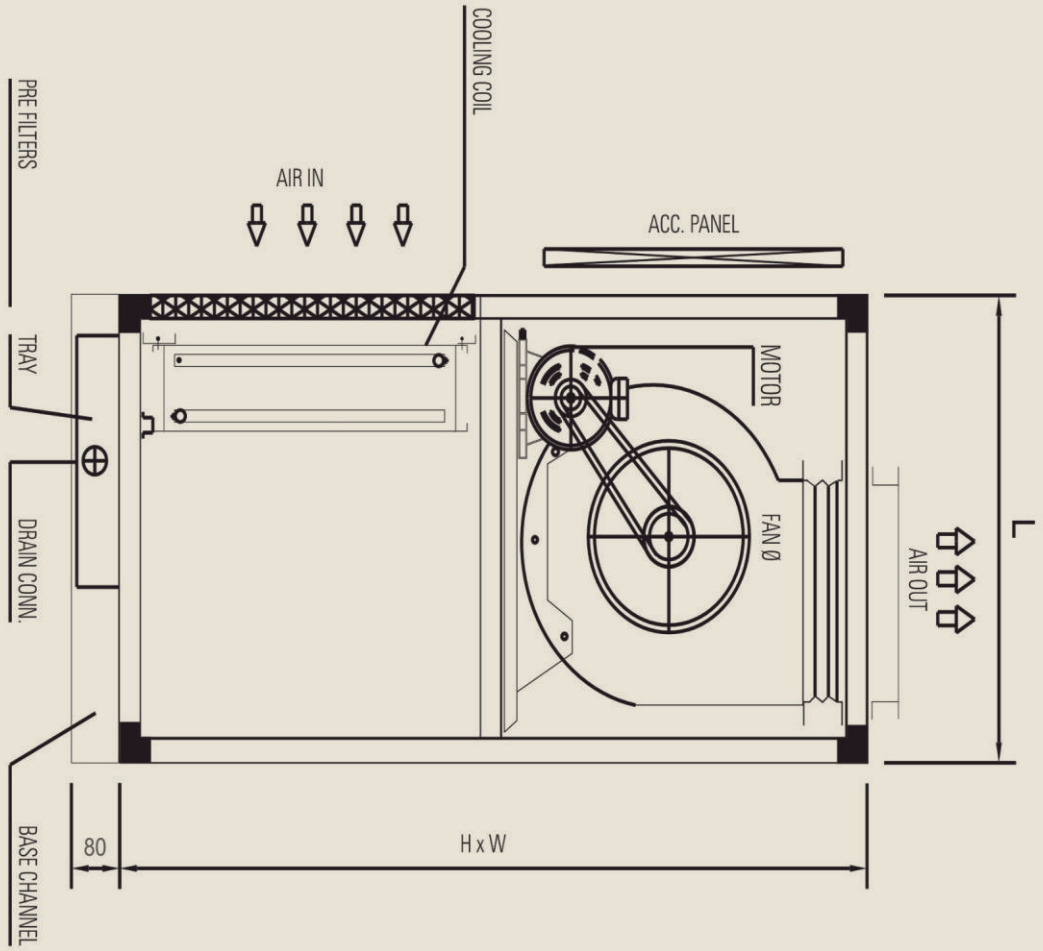
	1	2	3	4	5	6	7	8
CFM	1000	1200	1600	2000	3000	4000	6000	8000
MODEL	ZEAV-10	ZEAV-12	ZEAV-16	ZEAV-20	ZEAV-30	ZEAV-40	ZEAV-60	ZEAV-80
FAN SIZE	7 X 7	9 X9	9 X 9	10 X 10	12 X 12	15 X 15	18 X 18	450
VEL M/SEC	8	7.3	9.7	9.9	10.5	9.9	10.6	11.7
MOTOR KW	0.75	0.75	1.1	1.1	2.2	2.2	3.7	5.5
LENGTH	800	860	860	900	970	1050	1170	1300
WIDTH	530	560	560	610	700	800	930	1020
HEIGHT	560	610	610	650	720	800	920	960

	9	10	11	12	13	14	15	16	17
CFM	10000	12000	15000	18000	20000	25000	30000	35000	40000
MODEL	ZEAV-100	ZEAV-120	ZEAV-150	ZEAV-180	ZEAV-200	ZEAV-250	ZEAV-300	ZEAV-350	ZEAV-400
FAN SIZE	500	560	630	710	800	900	900	1000	1120
VEL M/SEC	11.6	11.1	11.1	10.5	9.3	9.2	11.1	10.3	9.3
MOTOR KW	5.5	7.5	7.5	9.3	11	15	18.5	18.5	18.5
LENGTH	1400	1500	1600	1750	1900	2200	2200	2350	2600
WIDTH	1120	1300	1400	1520	1750	1920	1920	2080	2300
HEIGHT	1050	1250	1260	1400	1550	1720	1720	1860	2050

Note:

1 - Motor rating is given based on total static pressure of 50mm WG.
2- Standard models include forward curved, DIDW centrifugal fan. Other fans like Backward curved, plenum fans can be provided as optional.
3 - Standard accessories includes bulk head light, limit switch, wire guard, cable entry, earthing.
4- Standard motors are suitable for 3 Ph, 415V, 50HZ, AC supply.
5- Standard model include only fan section in exhaust unit.
6 - Standard model includes pre filter, fan section in ventilation unit. Other add on modules like, intake section, heating coil, heaters, pre & fine filter section, sound attenuator can be added.
7 - AHU can be manufactured in 25mm, 43mm,50mm,&60mm thick standard panels

FLOOR MOUNTED VERTICAL UNITS

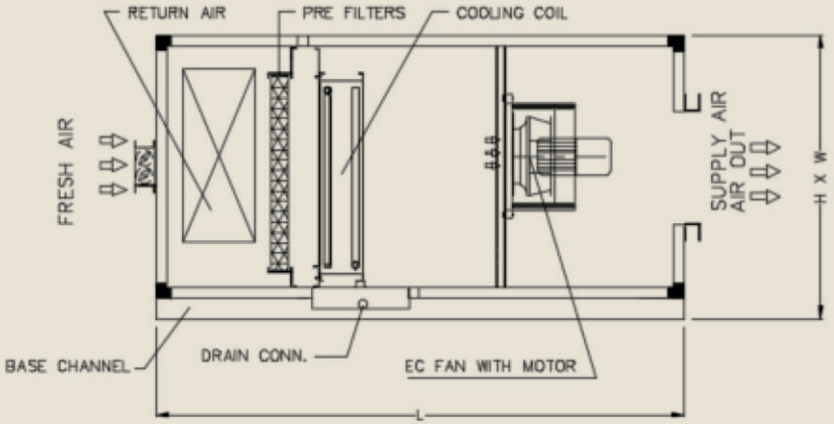


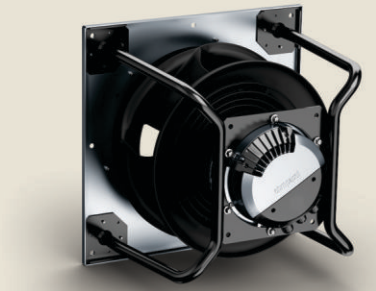
Technical details of vertical unit

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CFM	1200	1600	2000	2500	3000	4000	5000	6000	7000	8000	9000	10000	12000	13000	15000	16000	18000	20000
MODEL	ZEV-12	ZEV-16	ZEV-20	ZEV-25	ZEV-30	ZEV-40	ZEV-50	ZEV-60	ZEV-70	ZEV-80	ZEV-90	ZEV-100	ZEV-120	ZEV-130	ZEV-150	ZEV-160	ZEV-180	ZEV-200
FAN DIA	ø9x9	ø9x9	ø10x10	ø12x12	ø9x9-S2	ø10x10-S2	ø12x12-S2	ø12x12-S2	ø15x15-S2	ø15x15-S2	ø18x18-S2	ø18x18-S2	2x450	2x450	2x500	2x500	2x560	2x560
VEL M/SEC	7.3	9.7	9.9	8.8	9.1	9.9	8.8	10.5	8.7	9.93	8	8.9	8.8	9.5	8.7	9.3	8.3	9.3
MOTOR KW	0.75	0.75	1.1	1.1	1.5	2.2	2.2	3.7	3.7	3.7	5.5	5.5	2x3.7	2x3.7	2x3.7	2x3.7	2x3.7	2x5.5
COIL SQFT FT²	2.4	3.2	4.0	5.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	24.0	26.0	30.0	32.0	36.0	40.0
FIN HEIGHT	317.5	444.5	508	508	444.5	508	571.5	571.5	635	698.5	762	825.5	889	952	1080	1080	1143	1206
FIN LENGTH	702	669	732	914	1254	1463	1626	1951	2048	2128	2195	2251	2508	2537	2581	2753	2926	3081
LENGTH	650	650	680	750	650	680	750	750	850	850	1000	1000	1080	1080	1170	1170	1280	1280
WIDTH	1000	970	1030	1210	1550	1760	1930	2250	2350	2430	2500	2550	2800	2840	2880	3050	3230	3380
HEIGHT	1030	1160	1270	1330	1160	1270	1390	1390	1540	1600	1790	1860	2030	2090	2300	2300	2450	2520
AIR FILTER AREA FT²	4.39	5.5	6.5	7.7	9	11.19	13.4	15.8	18.3	20.4	22.2	24.5	27.8	29.9	34.2	36.3	40.5	44.9

Note:
1 - Motor rating is given based on total static pressure of 40mm WG.
2 - Standard models include forward curved, DIDW centrifugal fan. Other fans like Backward curved, plenum fans can be provided as optional.
3 - Unit having fan models "$2" shall have two impellers mounted on common shaft and driven by single motor.
4 - Standard motors are suitable for 3 Ph, 415V, 50HZ, AC supply.
6- AHU can be manufactured in 25mm, 43mm, 50mm, & 60mm thick standard panels and 25/43 mm thick thermal break panels.
5- Standard model includes pre filter, cooling coil, fan section. Other add on modules like, intake section, heating coil, heaters, pre & fine filter section, sound attenuator can be added.

EC FAB VENTILATION UNITS



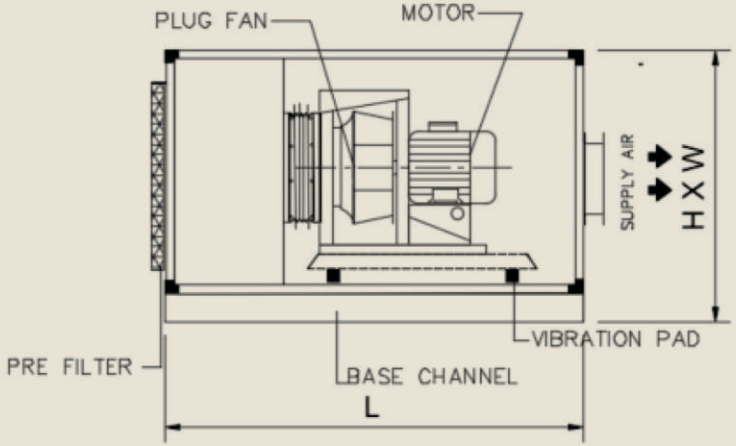


	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CFM	1000	1200	2000	2500	3000	4000	5000	6000	8000	10000	12000	13000	15000	16000
unit model	ZEEC-10	ZEEC-12	ZEEC-20	ZEEC-25	ZEEC-30	ZEEC-40	ZEEC-50	ZEEC-60	ZEEC-80	ZEEC-100	ZEEC-120	ZEEC-130	ZEEC-150	ZEEC-160
MOTOR	0.75	0.75	1.1	1.1	1.1	1.5	2.2	3	7.5	5.5	5.5	5.5	11	7.5
FAN Model	7X7	9X9	9X9	10X10	12X12	15X15	18X18	18X18	500	560	630	630	710	710
length	1200	1420	1460	1700	1700	1960	1960	1960	1960	2260	2400	2420	2590	2880
width	820	930	980	1110	1250	1470	1400	1500	1480	1800	2110	2300	2100	2300
height	600	760	780	800	800	810	1100	1100	1400	1400	1400	1400	1720	1720
Filter area Sq.ft.	2	4	4	6	6	8	12	12	16	20	24	28	30	35

ZEEC-150 ZEEC-160

	15	16	17	18	19	20	21	22	23	24
CFM	18000	20000	22000	24000	25000	30000	35000	40000	48000	60000
unit model	ZEEC-180	ZEEC-200	ZEEC-220	ZEEC-240	ZEEC-250	ZEEC-300	ZEEC-350	ZEEC-400	ZEEC-480	ZEEC-600
MOTOR	11	2X5.5	2X5.5	2X5.5	2X5.5	2X11	2X7.5	2X11	3X11	3X11
FAN Model	710	800	800	900	900	1000	1000	2x800	2x900	2x1000
length	3140	2310	2310	2460	2460	2640	2870	2870	2640	2870
width	2150	2350	2600	2600	2920	3000	2960	3200	4450	5050
height	2050	2050	2050	2150	2050	2300	2660	2800	2400	2650
Filter area Sq.ft.	36	40	48	48	54	63	70	80	98	120

PLUG FAN VENTILATION UNITS



	1	2	3	4	5	6	7	8
CFM	1000	1200	2000	3000	4000	6000	8000	10000
UNIT MODEL	ZEFM-10	ZEFM-12	ZEFM-20	ZEFM-30	ZEFM-40	ZEFM-60	ZEFM-80	ZEFM-100
MOTOR KW	2.4	2.4	2.5	2.5	1.7	3.4	5	5
FAN Model	7X7	9X9	10X10	12X12	15X15	18X18	450	500
LENGTH	1200	1200	1300	1400	1400	1600	1500	1650
WIDTH	750	750	750	1050	1350	1400	1460	1650
HEIGHT	560	750	750	800	800	1050	1400	1350
FILTER AREA Sq.ft.	2	4	4	6	8	12	16	20

	9	10	11	12	13	14	15
CFM	12000	15000	18000	20000	25000	30000	35000
UNIT MODEL	ZEFM-120	ZEFM-150	ZEFM-180	ZEFM-200	ZEFM-250	ZEFM-300	ZEFM-350
MOTOR KW	2X3.4	2X3.4	2X5	2X5	3X5	3X5	4X5
FAN Model	560	630	710	800	900	900	1000
LENGTH	1460	1460	1500	1650	1600	1650	1600
WIDTH	1950	1950	2100	2300	2900	3200	3200
HEIGHT	1350	1650	2000	2000	2000	2000	2300
FILTER AREA Sq.ft.	24	30	36	40	54	63	70

ZENOVENT PROJECTS

- Unity One Mall
- MVN Mall
- World Square Mall
- Kopa Mall
- Felix Plaza
- DLF Promenade Mall
- Select City Walk Mall
- Mittal City Mall
- Waves One Noida
- City Centre Mall
- Chandra Modi Hospital
- Medanta Hospital
- Om Hospital
- Pentamed Hospital
- Kideny Care Center
- Supreme Hospital
- Bhiwadi Hospital
- Hollister Medical India Pvt. Ltd.
- Jain Hospital
- Medicheck Hospital
- Degania Medical Devices Pvt. Ltd
- Vivekanand Arogya Kendra
- Alokik Hospital Udaipur
- Sardar Singh Hospital
- Hotel Park Plaza
- Holiday Inn
- White Wharf Resort
- Tulip Heights
- Daulatgarh Resort
- Mansingh Palace
- Devrajniwas
- Downtown Diner 7 Fresh Beer Café
- Public Affair Bar & Restaurant
- The Lallgarh Palace
- KFC
- Cream Center Anthurium
- Boomerang Hospitality
- Asta International School
- Faridabad Model School
- Unitech Cyber
- Anthurium
- Grandthumb
- ATS Khyber Range
- Mewar Infra Developers
- NBCC Center Okhla
- ATS Bouquet
- JMD Tech Infra
- Oppo Factory
- Venetian Ldf Projects Llp
- Devyani International
- Defense Service Officers Institute
- Poddar Pigment Ltd
- Jk White Cement Works
- BPCL
- Dhanuka

ZENOVENT PROJECTS

UNITYONE elegante

MVN MALL GURUGRAM

WORLD SQUARE MALL

KOPA MALL KOREGAON PARK

FELIX PLAZA

DLF PROMENADE VASANT KUNJ

nexus SELECT CITYWALK

MITTAL GROUP

WAVE One

citycentre DLF GURGAON

CHANDRA MODI HOSPITAL

medanta

OM HOSPITAL

PENTAMED HOSPITAL

KIDENY CARE CENTER

Supreme Hospital A Passion To Heal

BHIWADI HOSPITAL

Hollister

ALOKIK HOSPITAL HOMOEO AND MEDICAL RESEARCH CENTER

MEDICHECK "Because Every Life Matters"

Degania

ALOKIK HOSPITAL UDAIPUR

विवेकानन्द आरोग्य केन्द्र

JAIN HOSPITAL

SsmH

HOTEL PARK PLAZA

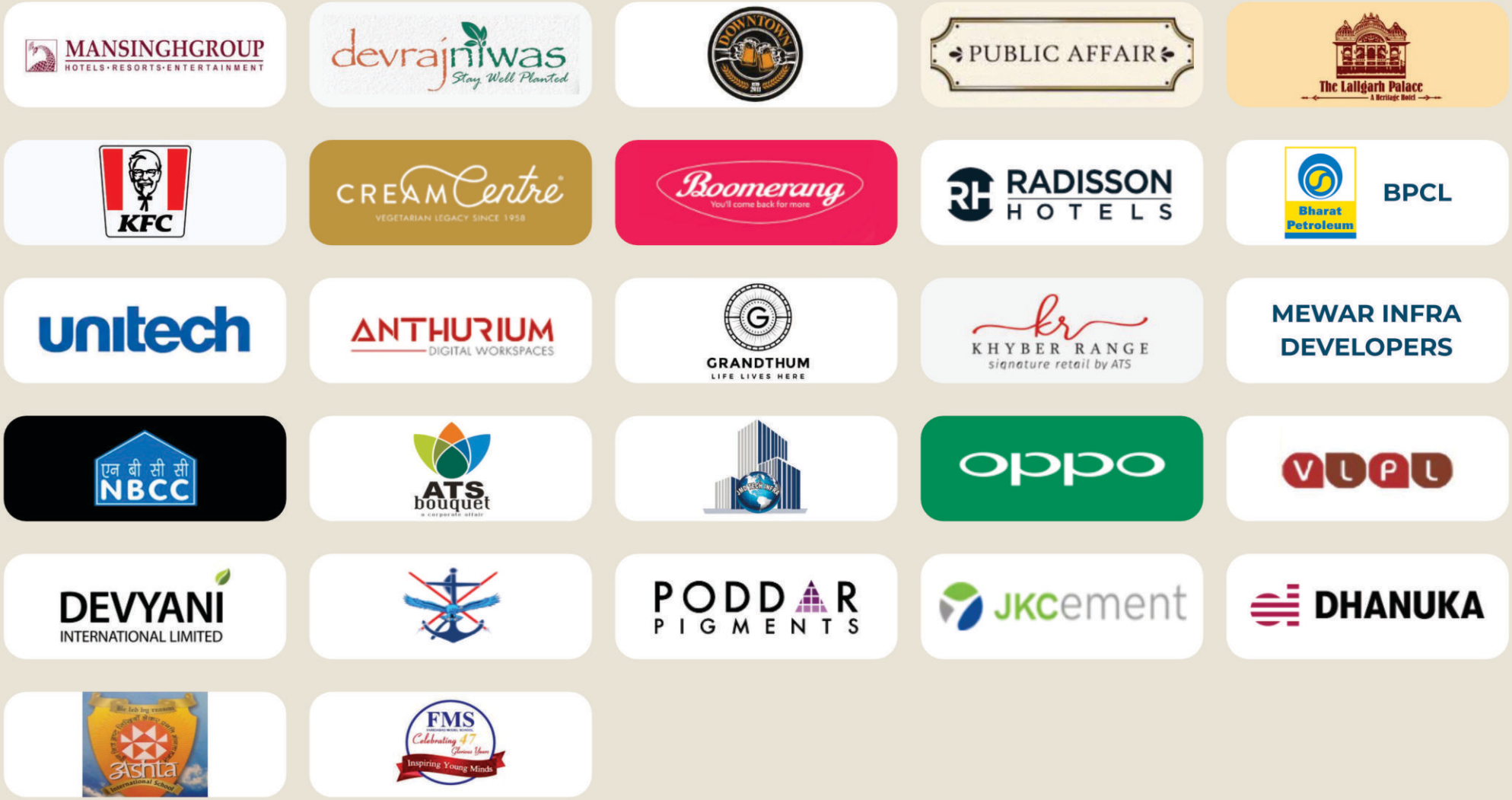
Holiday Inn AN IHG HOTEL NEW DELHI AEROCITY

WHITE WHARF

Comfort INN by CHOICE HOTELS TULIP HEIGHTS

DAULATGARH RESORT

ZENOVENT PROJECTS



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