

Energy Efficient, Eco-friendly,  
Cutting-edge, Green technology  
for a Healthy World...



**edgetech**   
... Creating a healthy world



## Driven by the challenge of creating superior, better performing products

The way a mountaineer takes up the challenge to conquer the peak despite all tough challenges, the way he equips himself with athletic ability and technical knowledge, we at Edgetech, conquer our challenges through technology upgradation – infrastructure, expansion & staff training on an ongoing basis All this with one mission to deliver superior & better performing products to our esteemed customers.



Newest designs, latest technologies, consistent highest quality and delivery assurance as well as meeting customer specific requirements are the basis of our success.



Our commitment to quality is underpinned by the achievement of most recognized certifications which are universally recognized as benchmarks of excellence.



Preliminary design at initial stages is undertaken by our technical sales team. Once order is placed initial designs are fine tuned and finalized by our team of expert engineers.

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## COMMITTED TO A **HEALTHIER ENVIRONMENT ...**



Founded by visionary and self-made businessman Mr. R.P. Goel, who have had four decades of business experience, along with his son Mr. Amit Goel, who have had two decade's experience in the HVAC industry, Edgetech has come a long way from a turnover of INR 3 crores in 2005 to INR 100 crores plus in 2015. Edgetech specializes in manufacturing Air Handling Systems. At the heart of the company's DNA is the vision that healthy economic growth and a healthy environment should go hand in hand. To achieve this goal, Edgetech has committed itself to a unique work philosophy called '*e<sub>3</sub>*' - which stands for Eco-friendliness, Energy Saving & Expertise - three vital principles that guide the company's entire operations. The philosophy flows all the way down from the top to the shop floor, to ensure delivery of world class Air Handling Systems.

## QUALITY THAT CONFIRMS TO THE BEST STANDARDS

### Environment Management & Quality Management at the core ... that's Edgetech for you!

At Edgetech, quality management is not a once-in-a-decade phenomenon, but an innate attribute that is deeply ingrained in our organizational DNA.

Our state-of-the-art manufacturing plant is equipped to meet the challenges of any market requirement. Each product passes through stringent quality & environment-friendliness checks at every stage of production. Armed with ISO 9001:2008 and 14001:2004 certifications, Edgetech is ready to serve its many discerning customers at home and abroad.



ISO 14001: 2004 Certified

ISO 9001: 2008 Certified

**EN**

AHUs Certified as per EN 1886



Heat Transfer Coils

**CE**

CE Certified AHUs

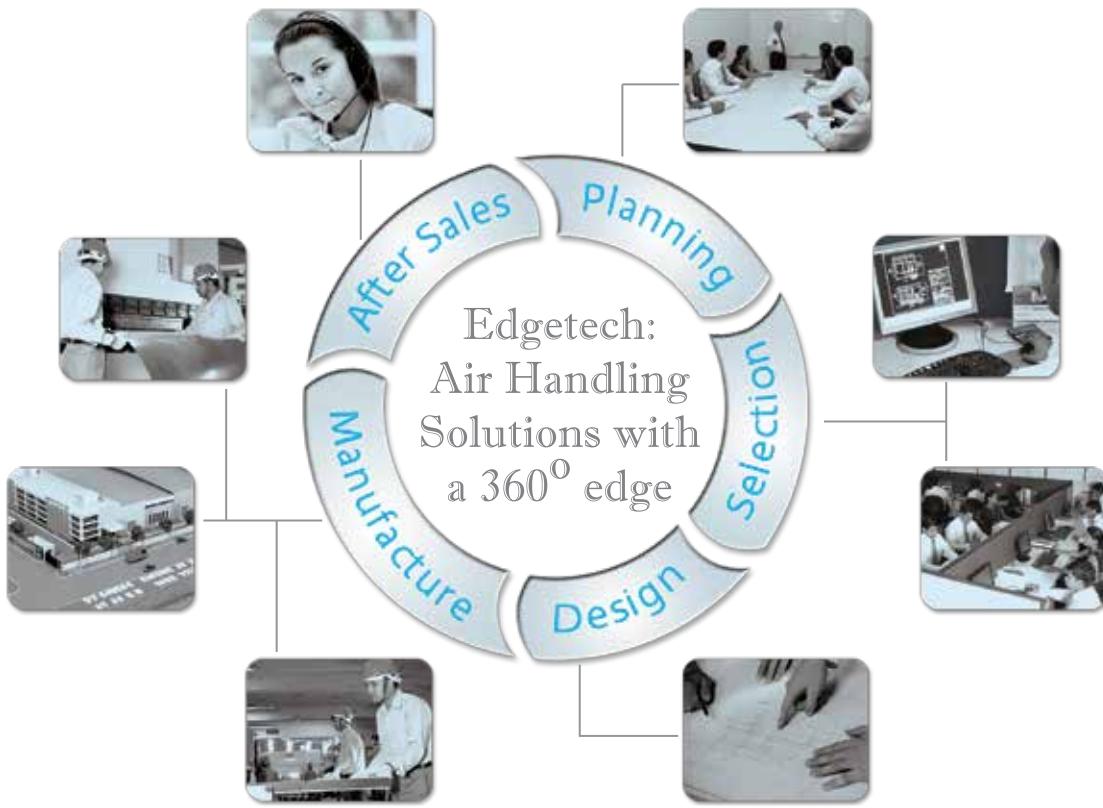
## STATE-OF-THE-ART ECO-FRIENDLY FACILITY

With an all new state-of-the-art facility at Rohad, Haryana, spanning over 1 lakh sq. ft. of manufacturing space, Edgetech is poised to take a quantum leap forward in offering its customers a more advanced & bigger range of premium & energy efficient AHUs & FCUs for both standard configuration and critical applications, with a wide selection of components to meet each need.





At Edgetech, achieving ever greater energy efficiency is a constant objective. In our endeavour to become No. 1 company in manufacturing energy efficient AHUs & FCUs, we relentlessly redesign & renovate our assembly lines at our manufacturing facility together with employing latest machines from all over the world to make AHUs & FCUs with rugged construction for ease of installation, longevity and powerful performance.

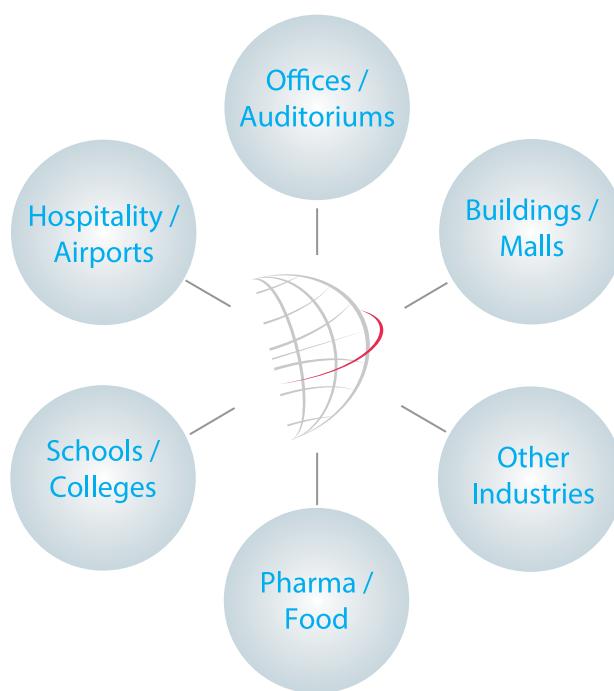


## COMPLETE 360° SOLUTIONS WITH MAXIMUM FLEXIBILITY

At Edgetech, we have an insight that most of the Air Handling configurations do not repeat themselves: with our 360° approach we work towards satisfying all goals right from understanding the brief, to designing, to component selection, custom made manufacturing followed by smooth installation & ensuring best performance post sales. Moreover, all these are done with the very best in dimension, material & component flexibility.

## EXPERT IN AIR HANDLING SOLUTIONS

Installations ranging from home, offices, industrial buildings, food industries, hospitals & labs, data processing center and school to institutions, Edgetech Air Handling Solutions over the years have earned a global reputation for unparalleled energy efficient and eco-friendly product performance. In areas of critical importance such as hospitals and labs where clean rooms call for zero tolerance, Edgetech ensures all parameters are met with utmost focus.



## SOME OF OUR BLUE CHIP CUSTOMERS AND INSTALLATIONS...



BECAUSE, BEST GO FOR THE BEST



## FUTURISTIC AIR HANDLING SOLUTIONS FOR EVERY APPLICATION



Horizontal Type Floor Mounted Unit  
Capacity Range: 1200 CFM to 40000 CFM

Horizontal Type Double Tier  
Floor Mounted Unit

Capacity Range: 1200 CFM to 20000 CFM



Clean Room AHU  
Capacity Range: Up to 30000 CFM

Vertical Type Double Skin AHU  
Capacity Range: 1200 CFM to 18000 CFM



Ceiling Suspended Ductable Unit  
(Belt Driven)  
Capacity Range: 1200 CFM to 12000 CFM

Ceiling Suspended Ductable Unit  
(Direct Driven)  
Capacity Range: Up to 1000CFM to 5000 CFM



## FUTURISTIC AIR HANDLING SOLUTIONS FOR EVERY APPLICATION



Energy Recovery Unit (Cross Flow Type)  
Capacity Range: 1200 CFM to 30000 CFM

Energy Recovery Unit (with Heat Pipe)  
Capacity Range: 1200 CFM to 30000 CFM



Energy Recovery Unit (with Heat Wheel)  
Capacity Range: 1200 CFM to 30000 CFM

Evaporative Cooling Unit  
Spray Type - Single / Double Bank  
Capacity Range: 1200 CFM to 40000 CFM



Evaporative Cooling Unit  
Pad Type : Single Stage  
Double Stage : Direct & Indirect  
Capacity Range: 1200 CFM to 40000 CFM



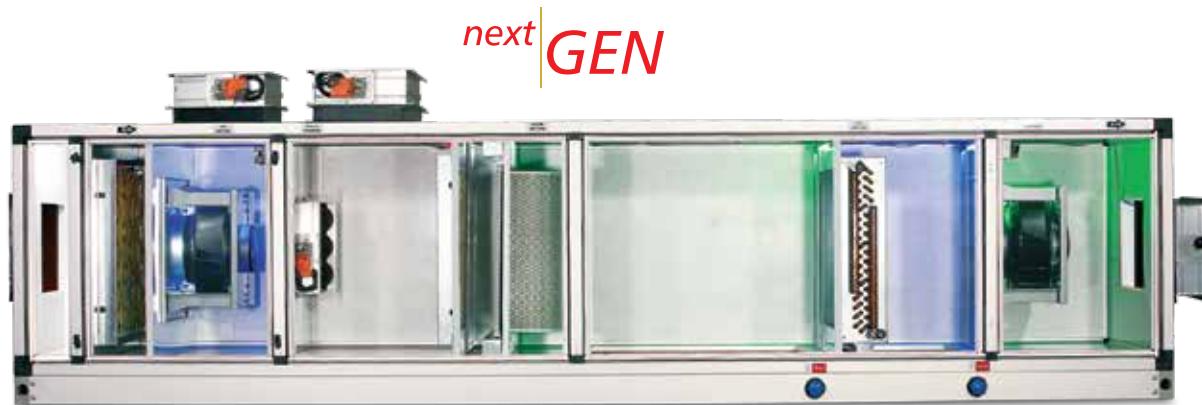
Ventilation Unit Exhaust  
Capacity Range: 1200 CFM to 40000 CFM



Ventilation Unit - Fresh Air  
Capacity Range: 1200 CFM to 40000 CFM

## NEXT GENERATION SERIES OF AIR HANDLING SOLUTIONS

An example of the company's commitment to offer innovative, energy saving, high IAQ, low sound, environment friendly systems.



### INDIA'S FIRST ELECTRONICALLY COMMUTATED SERIES OF AHUS WITH EC FANS

Capacity Range: Up to 30000 CFM

### ACREX AWARD OF EXCELLENCE

for outstanding work in the Energy  
Saving Products Category - Year 2011



Edgetech EC series of AHUs are equipped with new generation Electronically Commutated EC fans that incorporate a high efficiency backward curved impeller with external rotor EC motor & integrated electronics. EC (Electronically Commutated) fans save energy and reduce CO<sub>2</sub> emissions. The unique blades design of EC fan also helps in reducing air-cutting noise.

The EC motors are extremely quiet and operate at up to 90% efficiency - much higher than most voltage controlled synchronized motors. When working in part load conditions EC motors do not lose their efficiency which always remains over 90%, thus resulting in higher energy savings at all times. Their speed can be controlled with a mere 0-10V signal. EC motors do not draw extra power to maintain peak productivity and prevent expensive burnouts due to overheating.



*next* | **GEN**

#### RAISED FLOOR AIR HANDLING UNIT

Capacity Range: Up to 20000 CFM

#### ACREX AWARD OF EXCELLENCE

for outstanding work in the  
Innovation Category - Year 2014



Raised floor Unitary Air handling product is specifically designed to meet the unique requirements of under floor/Raised floor air systems. This special AHU is designed to deliver air into a raised floor plenum while using up to two different air streams: primary pre-treated air, and a mixture of bypass space return air and return air chilled using either chilled water or DX coils.

This next Gen AHU is equipped with many unique features that make our equipment durable and easy to operate and maintain. Some of these features are:

- The product is designed to consume low fan energy, has very quiet operation, and has a very compact space footprint.
- The unit casing is fabricated out of specially designed engineered thermo-acoustic lined double skin 50 mm thick panels, resulting in lower noise levels and optimal thermal properties.
- The complete fan and motor assembly is mounted on suspended spring isolators and complete assembly can be easily slid out of the unit for maintenance.
- Similarly the coil is mounted on roller balls with quick lock header couplings and is easy to slide out from the front side for maintenance.
- Under Floor unit is manufactured in two modules for fan and coil sections, each of which can rotate in any of the four directions with respect to each other, so that coil headers, filter access and supply air outlets can be selected in any direction to overcome internal constraints of the room.

## NEXT GENERATION SERIES OF AIR HANDLING SOLUTIONS



**next | GEN** AIR HANDLING UNIT FAN WALL ARREY  
Capacity Range: Up to 80000 CFM

The product is designed to consume low fan energy, have very quiet operation, have a compact space footprint while being easy to handle and maintain and provide upto 100% redency.

Multiple direct driven centrifugal plug fans are installed across the air stream of the AHU as a fan wall in combination of rows and columns, in contrast to a single fan motor arrangement in traditional AHUs. The AHU can be with AC motors with VFD or with EC fans and motors.

Comparatively smaller footprint of MULTIPLE FAN AHU due to optimal utilization of fan section reaps added benefit of smaller AHU rooms. A typical multiple fan AHU foot print dimension can be reduced upto 30%

Apart from the benefits of energy savings, high performance low noise levels, the multiple fan technology provides additional benefits to all stakeholders in the building process:

- Architects can devote less space to mechanical equipments.
- Owners can have more leasable space to generate revenue.

This multiple fan motor results in lower power consumption in comparison to the power consumed by traditional single fan motor based AHU for equivalent airflow at same static pressure.

Components in Multiple Fan unit system are typically significantly smaller, light weight and easier to access than the same components of conventional system.

Multiple Fan systems are ideally suitable for critical applications where AHU fan failure is highly undesirable or for applications which have variable load requirements.

Multiple Fan system also provides up to 100% redundancy and eliminates the need of stand by unit.



**next | GEN**

#### THERMOACOUSTIC LINED UNIT

Capacity Range: Up to 40000 CFM

These AHUs are preferably fitted with mixed flow fans that combine the best qualities of centrifugal and axial flow fans. Small sized and space saving, the fans are ideal for compact AHUs. Available in both belt-driven and direct-driven models, the fans are highly energy efficient, with lower sound levels, & static pressure of up to 8" of wg.

The units are fitted with air blenders that reduce air stratification.

The unit casing is fabricated out of specially designed and engineered thermo-acoustic lined double skin panels, resulting in lower noise levels and good thermal properties.

Where noise is the concern, the mixed flow AHU series are ideally supply, return or exhaust applications in such locations as schools, libraries, theatres, hospitals & clean rooms, office complexes, etc.

## FCU RANGE FOR EVERY APPLICATION

State-of-the-art Edgetech Fan Coil Units are designed to maximize flexibility of selection, ease of installation, optimal space saving, and years of trouble free, low noise operation. Edgetech FCUs are suitable for various applications such as shopping arcades, hotels, offices, hospitals, houses, schools, places of worship, recording studios, etc. The units are designed to ensure minimum ceiling height with easy access to pipe connections, drain & electrical fittings. The rigid construction further ensures vibration free operation. Edgetech FCUs are available following configurations:



Single Skin Fan Coil Unit

Normal Static: 1.0 TR - 5.0 TR

High Static: 1.0 TR - 5.0 TR



Double Skin Fan Coil Unit

Normal Static: 1.0 TR - 5.0 TR

High Static: 1.0 TR - 5.0 TR



Single Skin DC Fan Coil Unit

Capacity: 1.0 TR - 3.0 TR



Chilled Water Cassette

Capacity: 0.75 TR - 3.5 TR



Universal Fan Coil Unit

Capacity: 1.0 TR - 3.0 TR



High Wall Fan Coil Unit

Capacity: 1.0 TR - 2.0 TR

## OUR FRAME OF STRENGTH AND STABILITY...

To provide unique design with inherent strength & stability, Edgetech range of standard air handling units are assembled with self supporting modular framework, constructed of corrosion resistant extruded aluminium hollow profile, to choose from a wide variety, ranging from basic profiles to specialized true thermal break profiles with coving. The entire module is mounted on a continuous beam of heavy galvanized steel channel / sectional aluminium alloy base frame held together with special steel fabricated jointers/ die cast aluminium joints with heavy lifting holes for easy handling.



## CASING & PANELS INTEGRATED TO PROVIDE ROBUST CONSTRUCT & STRENGTH

The standard casing of the units are manufactured from precision cut precoated/ galvanised steel sheets. Double skinned panels insulated with pressure injected CFC/ HCFC free PUF with 'k' value of 0.02 Watts / m°C and density of 38-40 kg/m<sup>3</sup> as standard.

- Standard Panel Thickness: 16mm, 25mm, 50mm
- Thermal break Panels 25mm, 50mm

The panels are integrated with an extremely rigid sealed frame construction using specialised gaskets and ensuring gaps between panel junctions are minimal, and consequently minimising air leakage.

With above precision construction the units achieve the best of the classification under mechanical strength; casing leakage, filter by pass leakage, thermal transmittance and thermal bridging when measured as per standards of per EN 1886

The unit casing offered by Edgetech are tested and certified as per EN 1886 by Intertek.

## FLEXIBILITY TO CHOOSE

Edgetech AHUs can be manufactured in varied configurations, with a wide selection of components, to meet varied customer requirements. To help arrive at optimum performance of the system, we offer total flexibility for our customers to choose construction material from galvanized steel, pre-painted, stainless steel aluminium and more.



## TOTALLY ACCESSIBLE...

The units are provided with large sized access doors either Hinged or fully removable panels. The doors are fitted to the frame with easy release nylon handle and cam locks that can be operated internally for additional safety. Hinges are of robust heavy duty load bearing design and adjustable. In case of major maintenance, other panels can be detached using simple hand tools.



## HYGIENIC WAY TO DRAIN MICRO ORGANISM...

Unique hygienic drain-pan designed with multi slope ensures positive drainage of the condensate. The drain pan can be accessed easily for a periodic cleaning.

There is flexibility to choose construction material in SS 304/316, Aluminium and GSS. The drain pan is insulated for thermal protection with 13 mm thick closed cell elastomeric insulation as standard. Puff injected drain pan also available as an option.



## HEAT EXCHANGERS / COILS

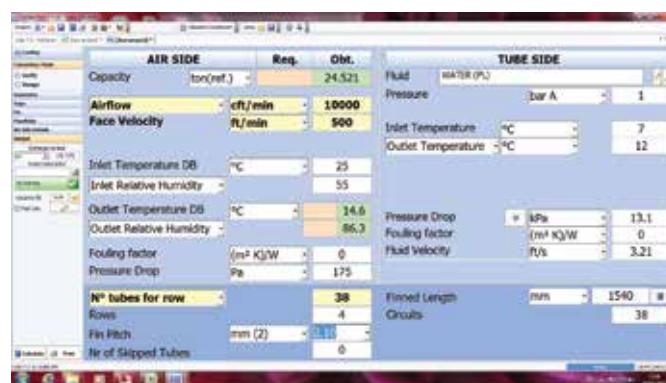
Edgetech offers a wide range of Heat Exchangers / Coils for chilled\* water / hot\* water / steam / refrigerant and brine applications, for diverse end-uses.

Certified by AHRI\*, coils are selected using world class computerized selection program to obtain optimum psychometric efficiency with low air and water pressure drop.

Edgetech offers plain or inner grooved copper tubes in  $\frac{1}{2}$ ",  $\frac{5}{8}$ " and  $\frac{3}{8}$ " diameter -with wall thicknesses, fin spacing, row depth and circuiting combinations as per application requirements.

We offer high quality Aluminum coils in plain & hydrophilic-coated options with fin spacing from 8-14 FPI.

Edgetech Coils over the years have evolved as world class products, thanks to quality that is the best in the business. Leading edge technology, excellence in engineering, and flexible production formats for complete customer satisfaction -- all make Edgetech Coils the perfect choice for Air Handling Systems.



Heat Transfer Coils

Coils are Selected & Designed through advanced software

## ENSURING OPTIMUM CORE EFFICIENCIES BY FIXING THE BEST IN CLASS TECHNOLOGY BASED FANS & MOTORS



Depending upon the application requirement, Edgetech offers a wide variety of fans like DIDW & SISW centrifugal fans. These fans are available in forward curve, backward curve or aerofoil blade construction in belt drive with options of v belts, flat belts or direct drive arrangement. We also offer Direct Driven Plug fans with AC motors and VFD or Plug fans with EC motors.

Each fan is individually tested, precision balanced statically & dynamically by fan manufacturer as per prevailing international standards and norms. High efficiency, low noise and low power consumption is the basic philosophy followed while selecting fans and each selection is thoroughly checked for suitability to the application. Similarly all our AHUs incorporate high efficiency motors ensure durable performance.



Flexible  
Canvas  
Connection



Vibration  
Isolators

Fan & motor assembly is mounted on extruded aluminium slide rails with provision for easy belt tensioning (in case of belt drive units). To ensure low operating noise & vibration, fan and motors are isolated from the unit casing with



fire retardant anti-fungal, anti-bacterial Neoprene impregnated, moisture resistant flexible canvas connection. The complete fan and motor assembly is mounted on combination of spring & rubber vibration isolators, selected to match the power with ratio for maximum isolation.

## HUMIDIFICATION SECTION



Humidification section can be offered/added in the standard units as an independent section.

Based on job requirement, these sections /units can be offered with different types of Humidification systems /medium to choose from Cellulose Paper based media, Water spray type in single or double bank, For Critical applications we also offer pan type as well steam type humidifiers.

We also offer standalone/ independent humidification units commonly known as Air washers, evaporative cooling units, scrubber etc. These units can be supplied with standard arrangement of single stage evaporative cooling system as well as two stage evaporative cooling system.

## HEAT / ENERGY RECOVERY SYSTEM

The overall indoor air quality and energy performance of a building can be improved by deploying the right energy-recovery technology in the system. An efficient energy recovery system is the key, as it improves the load efficiency of the cooling and heating functions.

**A choice of technology to fit differing applications  
& ensure exactly the right system to exploit the recovery potential.**



**State-of-the-art heat exchanger technologies that includes:**

Rotary heat exchanger • Plate type heat exchanger (Cross or Counter flow) • Run around coil • Heat pipe

## SUPREMELY EFFICIENT FILTER FOR UNSEEN IMPURITIES



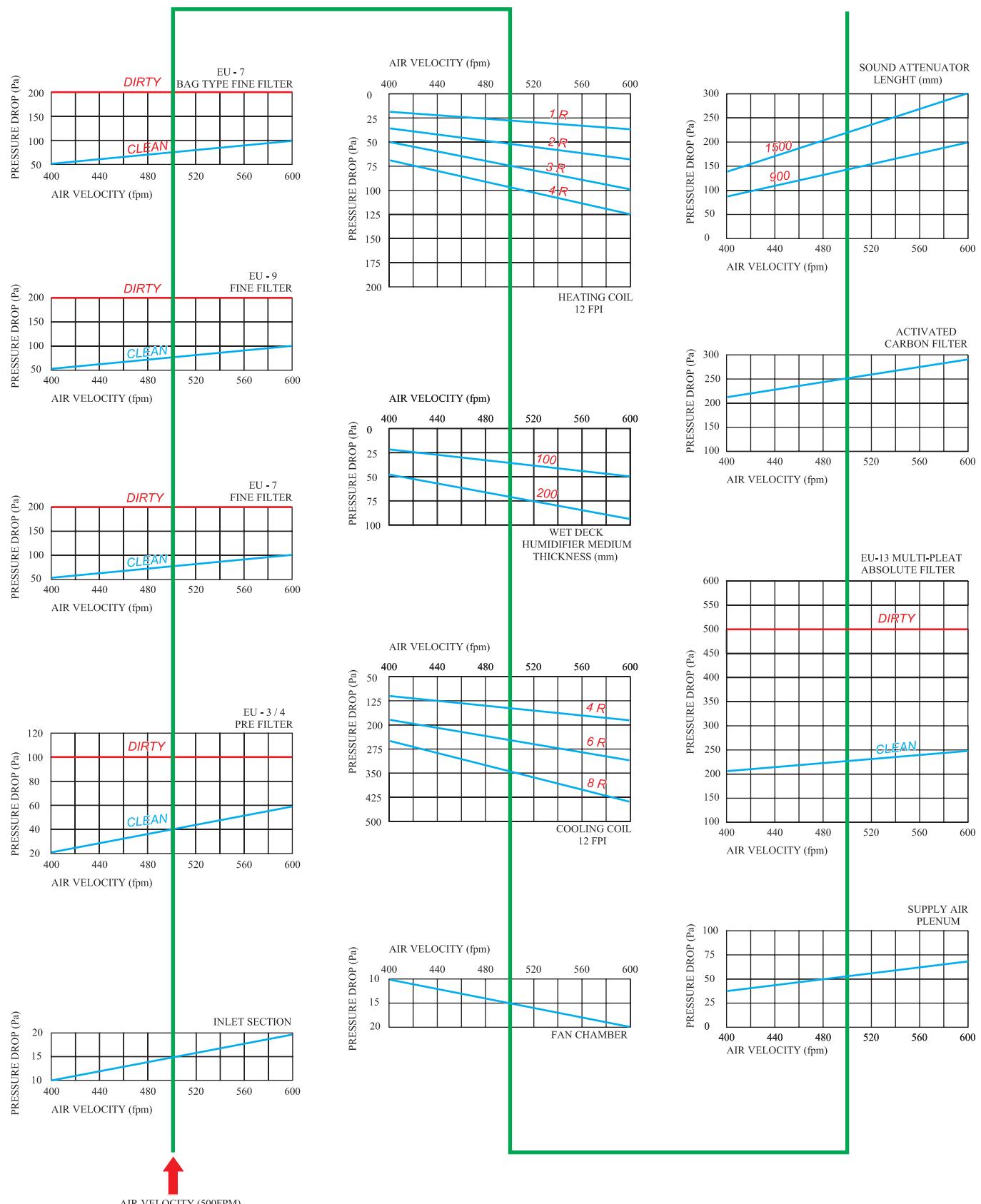
Fully sealed filter sections are designed for easy withdrawal and renewal of filter cells and are constructed to house any type of primary or secondary filters of different media with variable efficiencies.

Panel filters offered as standard are manufactured from pleated media which consists of reinforced non-woven fibers, with expanded diamond grid to provide maximum support. Pleating the media effectively increases the filtration area to more than three times that of the face area, providing high dust holding capacity and low pressure loss. The pleat pack is encased in extruded aluminum or GI frame.

In areas of particular importance, such as hospitals and clean rooms absolute filters can be provided to ensure safe human and machine environments.

Filter By pass leakage complies with class F9 according to EN 1886.

## 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 Components Used.

## Quick Air Handling Unit Selection Chart (Horizontal Floor Mounted)

### H-Series

Model ETU	Air Volume (CFM) @ 2.5 m/s	Filter Face Area (Sq. Ft.) @ 2.5 m/s	Coil Face Area (Sq. Ft.) @ 2.5 m/s	Air Volume (CFM) At different Air Velocity Through Unit Components		
				2.25 MPS	2.5 MPS	2.75 MPS
012H	1200	4	2.4	1080	1200	1320
015H	1500	4	3	1350	1500	1650
020H	2000	4	4	1800	2000	2200
025H	2500	6	5	2250	2500	2750
030H	3000	6	6	2700	3000	3300
040H	4000	8	8	3600	4000	4400
050H	5000	12	10	4500	5000	5500
060H	6000	12	12	5400	6000	6600
080H	8000	16	16	7250	8000	8800
100H	10000	20	20	9000	10000	11000
120H	12000	24	24	10800	12000	13200
150H	15000	30	30	13500	15000	16500
180H	18000	36	36	16200	18000	19800
200H	20000	40	40	18000	20000	22000
230H	23000	48	46	20700	23000	25300
260H	26000	54	52	23400	26000	28600
300H	30000	63	60	27000	30000	33000
350H	35000	70	70	31500	35000	38500
400H	40000	80	80	36000	40000	44000

Please refer Horizontal Floor Mounted Unit-Dimension Chart for further informations and dimensions.

## Quick Fan Section Chart

### KAT-Series

Fan Model	Fan Opening (MM)		Fan Outlet Area (Sq.M)	Air Volume (CFM) At Different Fan Outlet Velocity			
	D	E		AT 8 MPS	AT 9 MPS	AT 10 MPS	AT 11 MPS
7x7	228	259	0.0591	1001	1126	1251	1376
9x9	262	298	0.0781	1323	1489	1654	1820
10x10	289	331	0.0957	1622	1824	2027	2230
12x12	341	395	0.1347	2283	2569	2854	3139
15x15	404	471	0.1903	3226	3629	4032	4435
18x18	478	557	0.2662	4513	5077	5641	6206

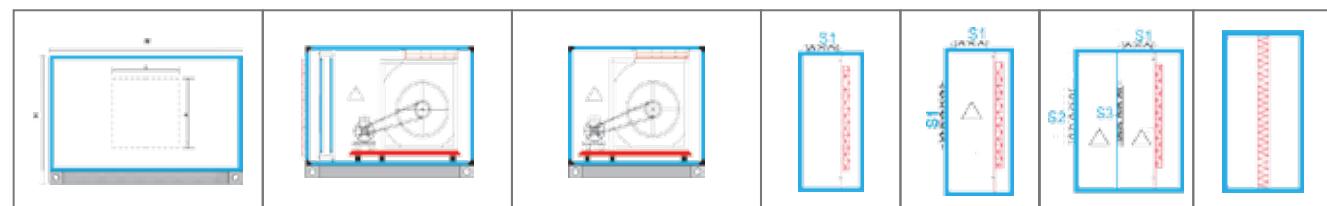
### Forward / Backward / Airfoil Blade Series

Model ETU	Fan Opening (MM)		Fan Outlet Area (Sq.M)	Air Volume (CFM) At Different Fan Outlet Velocity			
	D	E		AT 8 MPS	AT 9 MPS	AT 10 MPS	AT 11 MPS
#160	204	204	0.0416	705	794	882	970
180	228	228	0.0520	881	991	1101	1212
200	256	256	0.0655	1111	1250	1389	1527
225	288	288	0.0829	1406	1582	1757	1933
250	322	322	0.1037	1758	1977	2197	2417
280	360	360	0.1296	2197	2471	2746	3021
315	404	404	0.1632	2767	3113	3458	3804
355	452	452	0.2043	3463	3896	4329	4762
400	506	506	0.2560	4340	4883	5425	5968
450	568	568	0.3226	5469	6152	6836	7520
500	638	638	0.4070	6900	7762	8625	9487
560	714	714	0.5098	8642	9722	10802	11882
630	800	800	0.6400	10849	12205	13561	14917
710	898	898	0.8064	13669	15368	17087	18795
800	1006	1006	1.0120	17155	19299	21444	23558
900	1130	1130	1.2769	21645	24350	27056	29762
1000	1266	1266	1.6028	27168	30564	33960	37356

# Backward & Airfoil Models Not Available. Fan models & selection refer to Kruger Selection Programme All dimensions are in mm.

## Horizontal Floor Mounted Unit-Dimension Chart

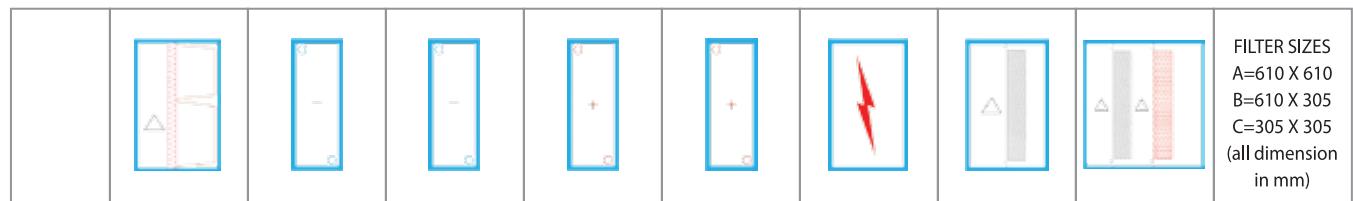
**H-Series**



Model ETU	External Dimensions (mm)		Overall Length(mm) (50 mm Thick Prefilter, 1-6 RD Coil and Fan)	Fan Section	Ducted Intake Section	Mixing Section With Flat Filter	Double Mixing Section	Plain Filter Section
	Width (w)	Total Height (H)						
012H	800	875	1300	830	400	450	880	200
015H	850	875	1300	830	400	450	880	200
020H	950	875	1370	900	400	450	880	200
025H	1150	875	1450	980	400	450	1000	200
030H	1200	925	1550	1080	400	450	1000	200
040H	1520	975	1650	1180	400	450	1000	200
050H	1450	1225	1750	1280	400	550	1000	200
060H	1580	1225	1850	1380	450	550	1000	200
080H	1550	1525	2000	1530	450	550	1000	200
100H	1850	1525	2100	1630	550	550	1200	200
120H	2180	1525	2230	1760	550	550	1200	200
150H	2180	1875	2500	2030	550	650	1200	200
180H	2250	2175	2650	2180	550	650	1580	200
200H	2800	1875	2670	2200	600	650	1580	200
230H	2800	2175	2950	2480	600	650	1650	200
260H	3000	2225	2950	2480	600	650	1650	200
300H	3100	2475	3100	2630	600	750	1650	200
350H	3350	2625	3100	2630	600	750	1650	200
400H	3250	3125	3100	2630	600	750	1650	200

Note:

- \* Standard models with 25 mm thick panels are mentioned above. For 43 / 50 / 60 mm thick panels and 50 mm extra to the width (w), height (H) and length (L) of the unit.
- \* Symbol in the various sections above shows access door. If the same is required after HEPA filter for DOP test add 300 mm extra to the section.
- \* For two-tier AHUs and for other and on models viz, wet deck section, spray section (single back or double back), heat recovery plate section or heat recovery wheel section, sound attenuator section, empty section etc. please contact our technical assistance department.
- \* For 900 mm Silencer add 1200 mm to total length of AHU and for 1200 mm Silencer add 1500 mm to total length of AHU.
- \* All dimensions are in mm
- \* Fan outlet velocity at 9 to 10 m/s



Model ETU	Combination Filter Section Pre (50 mm thick) & Bag (305 mm thick) or Fine (305 mm thick)	Chilled Water Coil Section 1-6 Rows Deep	Chilled Water Coil Section 8 Rows Deep	Hot Water Coil Section 1-2 Rows Deep	Hot Water Coil Section 4-6 Rows Deep	Electric Heater Section	Discharge Plenum with Fine Filter	Discharge Plenum With Fine Filter & HEPA Filter	Filter Quantity A / B / C
	Section Wise Details Of Add On Modules								
012H	450	470	550	200	300	200	1050	1850	1 / 0 / 0
015H	450	470	550	200	300	200	1050	1850	1 / 0 / 0
020H	450	470	550	200	300	200	1050	1850	1 / 0 / 0
025H	450	470	550	200	300	200	1050	1850	1 / 1 / 0
030H	450	470	550	200	300	300	1050	1850	1 / 1 / 0
040H	450	470	550	200	300	300	1250	1850	2 / 0 / 0
050H	450	470	550	200	300	300	1350	2100	2 / 2 / 0
060H	450	470	550	200	300	300	1350	2100	2 / 2 / 0
080H	450	470	550	200	300	300	1450	2100	4 / 0 / 0
100H	450	470	550	200	300	300	1450	2100	4 / 2 / 0
120H	450	470	550	200	300	300	1450	2100	6 / 0 / 0
150H	450	470	550	200	300	300	1500	2350	6 / 3 / 0
180H	450	470	550	200	300	300	1550	2350	9 / 0 / 0
200H	450	470	550	200	300	300	1550	2350	8 / 4 / 0
230H	450	470	550	200	300	300	1650	2500	12 / 0 / 0
260H	450	470	550	200	300	300	1650	2500	12 / 3 / 0
300H	450	470	550	200	300	300	1650	2500	12 / 7 / 1
350H	450	470	550	200	300	300	1850	2600	15 / 5 / 1
400H	450	470	550	200	300	300	1850	2600	20 / 0 / 0



## Ceiling Suspended Ductable Unit (Belt Driven)

Model ETU	Air Volume (CFM)	Fan Model KAT/FDA Series	Overall Dimension (MM) (25 mm thick Prefilter, 1 - 6 RD Coil & Fan)			Fan Outlet Velocity (m/s)	# RPM / BKW / Recommended Motor kw at a Static Pressure* of		
			Depth	Width	Height		32 MM WG	40 MM WG	50 MM WG
012C	1200	KAT 7/7/C	1180	800	540	9.59	1766/0.50/0.75	1865/0.54/0.75	2031/0.62/0.75
015C	1500	KAT 9/9/C	1180	960	550	9.07	1173/0.46/0.55	1312/0.55/0.75	1585/0.81/1.1
020C	2000	KAT 10/10/C	1230	1030	610	9.87	1027/0.57/0.75	1138/0.69/1.1	1286/0.83/1.1
025C	2500	KAT 12/12/C	1300	1120	670	8.76	894/0.70/1.1	1040/0.92/1.1	1205/1.21/1.5
030C	3000	KAT 9/9/S2	950	1550	550	9.07	1220/0.99/1.1	1365/1.19/1.5	1649/1.73/2.2
035C	3500	KAT 10/10/S2	1000	1650	610	8.64	1059/1.03/1.5	1201/1.27/1.5	1382/1.70/2.2
040C	4000	KAT 10/10/S2	1000	1770	610	9.87	1068/1.22/1.5	1184/1.49/2.2	1337/1.79/2.2
050C	5000	KAT 12/12/S2	1050	1930	670	8.76	930/1.51/2.2	1082/1.97/2.2	1253/2.6/3.7
060C	6000	KAT 12/12/S2	1050	2250	670	10.52	927/1.91/2.2	1030/2.28/3.7	1176/2.85/3.7
070C	7000	KAT 15/15/S2	1150	2350	750	8.68	801/2.01/2.2	902/2.49/3.7	1026/3.19/3.7
080C	8000	KAT 15/15/S2	1150	2450	800	9.93	801/2.36/3.7	896/2.88/5.5	1006/3.55/5.5
100C	10000	KAT 18/18/S2	1300	2600	930	8.87	666/2.79/3.7	770/3.60/5.5	900/4.95/7.5
120C	12000	KAT 18/18/S2	1300	3000	930	10.64	672/3.51/5.5	744/4.21/5.5	839/5.26/7.5

# Above indicated data (RPM / BKW / Motor KW) corresponds to mean sea level

\* For selection at other static pressure please contact our technical assistance department

\* Standard models with 25mm thick panels are mention above, for 43mm thick panels add 45mm, for 50mm thick panels add 60mm and for 60mm thick panels add 80mm extra to the width (W), height (H) and length of the unit.

\* For 8 rows deep coil add 100 mm extra to the depth of the unit.

\* Units having fan model as S2 shall have two impellers mounted on common shaft driven by single motor.

\* For other add on modules viz., mixing chamber, ducted intake section, filter plenum, hot water coil section, electric heater section, pre & bag filter on common frame, sound attenuator section, empty section etc please contact our technical assistance department.

\* All dimension are in mm.



## Ceiling Suspended Ductable Unit (Direct Driven)

Unit Model	ETU-012CD	ETU-015CD	ETU-020CD	ETU-025CD	ETU-030CD	ETU-040CD	ETU-050CD
Air Qty. (CFM)	1200	1500	2000	2500	3000	4000	5000
Static Pressure (Total)	25-28 mm wg						
Pannel Thickness	25 mm						
Coil Face Area (Sq. Ft.)	2.4	3	4	5	6	8	10
Row Deep	4/6						
Fan Type / Drive	DIDW Centrifugal Forward Curved / Direct Drive						
Fan Model	9/9	9/9	10/10	12/12	9/9	10/10	12/12
No. of Fans	1	1	1	1	2	2	2
Watt	375	375	550	709	375x2	550x2	709x2
Motor Pole	6	6	4	6	6	4	6
RPM	950/925/900	950/925/900	1300/1200/1150	900/715/510	950/925/900	1300/1250/1150	900/715/510
Volt	220-240						
Filter Type / Thickness	Pre-Filter / 25 mm						
Filter Media	Non Woven Synthetic						
Overall Dimension (mm)							
Depth	960	960	960	1000	960	960	1000
Width	850	1050	1150	1150	1550	2000	1930
Height	500	500	560	670	550	560	670

Note :

- \* Above technical details refer to a static pressure of 25 - 28 mm WG.
- \* Standard models with 25 mm thick panels are mentioned above.
- \* For more details please contact our technical assistance department.
- \* All dimensions are in mm.



## Vertical Type Double Skin AHU

Model ETU	Air Volume (CFM)	Fan Model KAT/FDA Series	Overall Dimension			Fan Outlet Velocity (m/s)	# RPM / BKW / Recommended Motor kw at a Static Pressure* of		
			Depth	Width	Total Height		32 MM WG	40 MM WG	50 MM WG
012V	1200	KAT 7/7/S	610	900	1125	9.59	1766/0.50/0.75	1865/0.54/0.75	2031/0.62/0.75
015V	1500	KAT 9/9/S	610	1030	1755	9.07	1173/0.46/0.55	1312/0.55/0.75	1585/0.81/0.1.1
020V	2000	KAT 10/10/S	700	1140	1275	9.87	1027/0.57/0.75	1138/0.69/1.1	1286/0.83/1.1
025V	2500	KAT 12/12/S	750	1220	1395	8.76	894/0.70/1.1	1040/0.92/1.1	1205/1.21/1.5
030V	3000	KAT 9/9S2	610	1550	1225	9.07	1220/0.99/1.5	1365/1.19/1.5	1649/1.73/2.2
040V	4000	KAT 10/10S2	700	1770	1325	9.87	1068/1.22/1.5	1184/1.49/2.2	1337/1.79/2.2
050V	5000	KAT 12/12S2	750	1930	1475	8.76	930/1.51/2.2	1082/1.97/3.7	1253/2.6/3.7
060V	6000	KAT 15/15S2	850	2250	1555	7.44	811/1.71/2.2	927/2.33/3.7	1067/2.99/3.7
070V	7000	KAT 15/15S2	850	2350	1625	8.68	801/2.01/3.7	902/2.49/3.7	1026/3.19/3.7
080V	8000	KAT 15/15S2	850	2450	1745	9.93	801/2.36/3.7	896/2.88/3.7	1006/3.55/5.5
100V	10000	KAT 18/18S2	1000	2550	1925	8.87	666/2.79/3.7	770/3.60/5.5	900/4.95/7.5
120V	12000	FDA 450-2 NOS	1400	2850	2125	8.78	672/3.53/5.5	744/4.22/5.5	839/5.2/7.5
140V	14000	FDA 500-2 NOS	1500	3250	2275	8.12	624/1.99/3.7	692/2.36/3.7	775/2.89/5.5
160V	16000	FDA 500-2 NOS	1500	3250	2425	9.28	589/2.22/3.7	654/2.67/3.7	731/3.29/5.5
180V	18000	FDA 560-2 NOS	1600	3250	2625	8.33	596/2.63/3.7	659/3.12/5.5	731/3.79/5.5
200V	20000	FDA 560-2 NOS	1600	3400	2675	9.26	515/2.61/3.7	573/3.16/3.7	645/3.96/5.5

#Above indicated data (RPM / BKW / Motor KW) corresponds to mean sea level.

\* For Selection at other static pressure please contact our technical assistance department

Note :

\* Standard models with 25mm thick panels are mention above, for 43mm thick panels add 45mm, for 50mm thick panels add 60mm and for 60mm thick panels add 80mm extra to the width (W), height (H) and length of the unit.

\* For 8 rows deep coil add 100 mm extra to the depth of the unit.

\* Units having fan model as S2 shall have two impellers mounted on common shaft driven by single motor.

\* For other add on modules viz., mixing chamber, ducted intake section, filter plenum, hot water coil section, electric heater section, pre & bag filter on common frame, sound attenuator section, empty section etc. please contact our technical assistance department.

\* All dimensions are in mm.



## Energy Recovery Unit (with Heat Recovery Wheel)

Model ETU	Wheel Dia.	Air Volume (CFM)			Overall Dimensions		
		600 FPM	700 FPM	800 FPM	Length	Width	Height
012 HRU	700	1050	1225	1400	2310	1200	1655
015 HRU	800	1404	1638	1872	2310	1250	1655
020 HRU	900	1806	2107	2409	2310	1300	1655
025 HRU	1000	2285	2635	3011	2310	1400	1655
030 HRU	1100	2760	3220	3680	2310	1500	1755
040 HRU	1200	3310	3862	4414	2510	1600	1855
045 HRU	1300	3910	4562	5214	2610	1700	2055
050 HRU	1400	4560	5320	6079	2610	1750	2055
060HRU	1500	5258	6135	7011	2810	1850	2255
070HRU	1600	5949	6841	7933	3040	2000	2455
075HRU	1700	6743	7867	8990	3040	2050	2455
085HRU	1800	7585	8850	10114	3040	2100	2455
095HRU	1900	8477	9890	11303	3240	2250	2755
100HRU	2000	9419	10988	12558	3240	2350	2755
130HRU	2200	11219	13089	14959	3680	2600	2955
150HRU	2400	13433	15671	17910	3980	2800	3355
180HRU	2600	15483	18484	21125	4280	3100	3655
200HRU	2800	18451	21527	24602	4280	3200	3655
250HRU	3000	21257	24800	28342	4780	3450	4055



## Ventilation Unit Exhaust / Fresh Air

Model ETU	Air Volume (CFM)	Fan Model	Filter Area (Sq.Ft)	Filter Quantity A / B / C	Overall Dimension (MM) (50 mm thick Prefilter & Fan)		
					Length	Width	Total Height
012VU	1200	7/7	4.0	1 / 0 / 0	900	750	805
015VU	1500	9/9	4.0	1 / 0 / 0	900	750	805
020VU	2000	10/10	4.0	1 / 0 / 0	1000	750	805
025VU	2500	12/12	6.0	1 / 1 / 0	1000	1050	805
030VU	3000	15/15	6.0	1 / 1 / 0	1100	1050	905
040VU	4000	15/15	8.0	2 / 0 / 0	1100	1350	905
060VU	6000	450	12.0	2 / 0 / 2	1350	1350	1105
080VU	8000	500	16.0	4 / 0 / 0	1500	1400	1405
100VU	10000	560	20.0	4 / 2 / 0	1600	1650	1405
120VU	12000	630	24.0	6 / 0 / 0	1700	2000	1455
160VU	16000	710	36.0	9 / 0 / 0	2000	2000	2055
200VU	20000	800	40.0	8 / 0 / 0	2150	2650	1805
250VU	25000	900	50.0	12 / 3 / 0	2300	2900	2055
300VU	30000	1000	60.0	15 / 0 / 0	2500	3200	2155
350VU	35000	1000	70.0	15 / 0 / 5	2500	3200	2405
400VU	40000	1000	80.0	20 / 0 / 0	2500	3200	2705

Note :

- \* Filter dimensions: A = 610 x 610; B = 610 x 305 & C = 305 x 610 (all in mm)
- \* Total height includes 55 mm deep base channel
- \* Optional Accessories: bird screen, dampers, inlet cowl, louvers, ducted intake section, empty section, pre & fine filter on common frame, fine filter plenum etc.
- \* All dimensions are in mm.



### Evaporative Cooling Unit (Cellulose Pad Type)

Model ETU	Air Qty. (cfm)	Fan Model	Overall Dimension			Pad Face Area (Sq. Ft.)	Filter Face Area (Sq. Ft.)
			L	W	H		
010 AW	1000	KAT-7/7	1550	750	800	2	2
012 AW	1200	KAT-9/9	1600	750	1050	2	4
015 AW	1500	KAT-9/9	1600	750	1050	3	4
020 AW	2000	KAT-10/10	1600	750	1050	4	4
025 AW	2500	KAT-12/12	1700	1050	1050	5	6
030 AW	3000	KAT-15/15	1800	1050	1050	6	6
040 AW	4000	KAT-15/15	1800	1350	1050	8	8
050 AW	5000	KAT-18/18	2000	1350	1350	10	12
060 AW	6000	FDA-450	2100	1350	1350	12	12
080 AW	8000	FDA-500	2200	1350	1650	16	16
100 AW	10000	FDA-560	2300	1650	1650	20	20
120 AW	12000	FDA-630	2450	1950	1650	24	24
150 AW	15000	FDA-710	2700	1950	1950	30	30
180 AW	18000	FDA-800	2900	1950	2250	36	36
200 AW	20000	FDA-800	2900	2550	1950	40	40
230 AW	23000	FDA-900	3100	2550	2250	46	48
260 AW	26000	FDA-900	3100	2250	2850	52	56
300 AW	30000	FDA-1000	3250	2550	2850	60	64
350 AW	35000	FDA-1000	3250	2850	2850	70	72
400 AW	40000	FDA-1000	3250	3150	2850	80	80



## Evaporative Cooling Unit - Spray Type - Single / Double Bank

Model ETU	Air Volume (CFM)	Overall Dimension (mm)				Filter Area (Sq. Ft.)
		Single Bank L	Double Bank L	W	H	
012 SC	1200	2050	2650	750	1050	4
015 SC	1500	2100	2700	750	1050	4
020 SC	2000	2100	2700	750	1050	4
025 SC	2500	2200	2800	1050	1050	6
030 SC	3000	2300	2900	1050	1050	6
040 SC	4000	2300	2900	1350	1050	8
050 SC	5000	2500	3100	1350	1350	12
060 SC	6000	2600	3200	1350	1350	12
080 SC	8000	2700	3300	1350	1650	16
100 SC	10000	2800	3400	1650	1650	20
120 SC	12000	2950	3550	1650	1950	24
150 SC	15000	3200	3800	1950	1950	30
180 SC	18000	3400	4000	1950	2250	36
200 SC	20000	3400	4000	2250	2250	40
230 SC	23000	3900	4600	2550	2250	48
260 SC	26000	3900	4600	2550	2550	56
300 SC	30000	4050	4750	2850	2550	63
350 SC	35000	4050	4750	2850	2850	70
400 SC	40000	4050	4750	3150	2850	80



Edgetech's state-of-the-art modern manufacturing facility at Rohad, Haryana is IGBC Certified Gold rated green Building



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Rohad (Bahadurgarh), Haryana

has successfully achieved the Green Building Standards required for  
the following level of certification under the IGBC Green Factory Building Rating System

### IGBC Green Factory Building Gold

March 2015

This certification is valid for the next 3 years

**Pradeep Bhargava**  
Chairman, IGBC Green Factory  
Building Rating System

**Dr Prem C Jain**  
Chairman, IGBC

**S Raghupathy**  
Executive Director, CII-Godrej GBC

*Quality is never an accident. It is always  
the result of intelligent effort. There must be  
the will to produce a superior thing.*

John Ruskin



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