

Energy Efficient, Eco-friendly,
Cutting-edge, Green technology
for 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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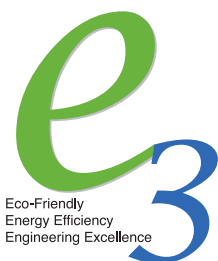
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COMMITTED TO A HEALTHIER ENVIRONMENT ...



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 'e₃' - 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

AHRI CERTIFIED™
www.ahridirectory.org
Heat Transfer Coils

CE
CE Certified AHUs

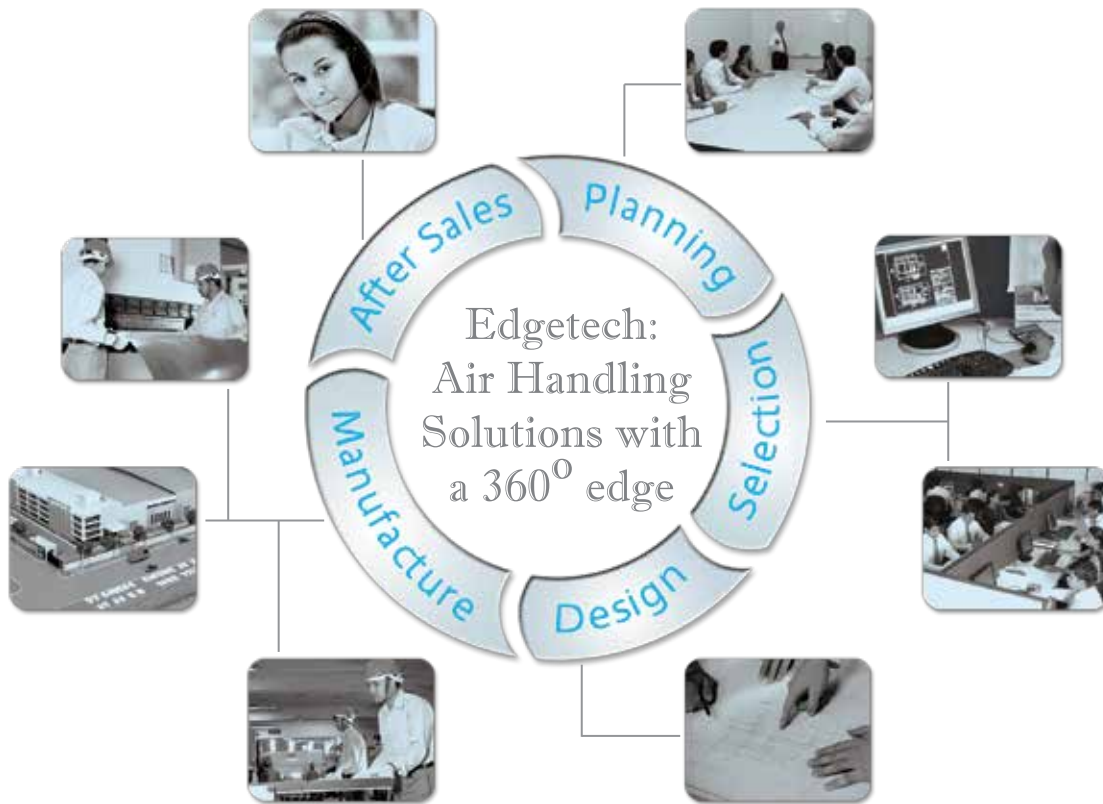
STATE-OF-THE-ART **ECO-FRIENDLY FACILITY**

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.

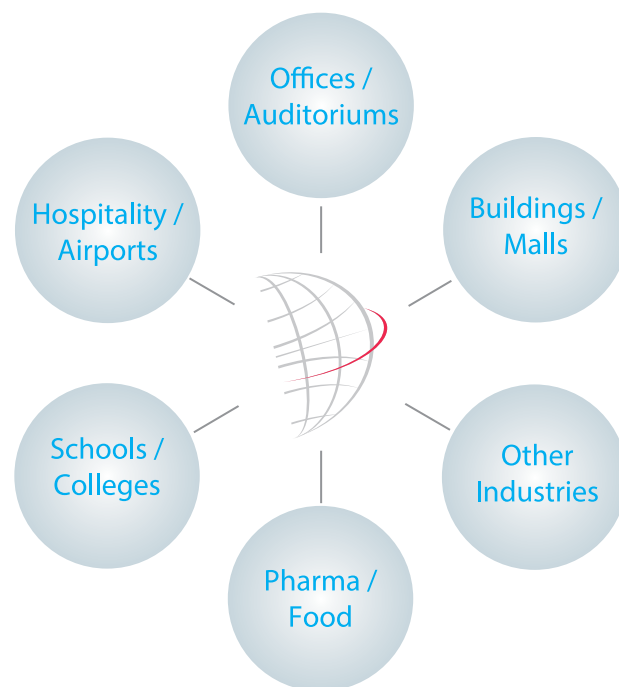


COMPLETE 360° SOLUTIONS WITH MAXIMUM FLEXIBILITY

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



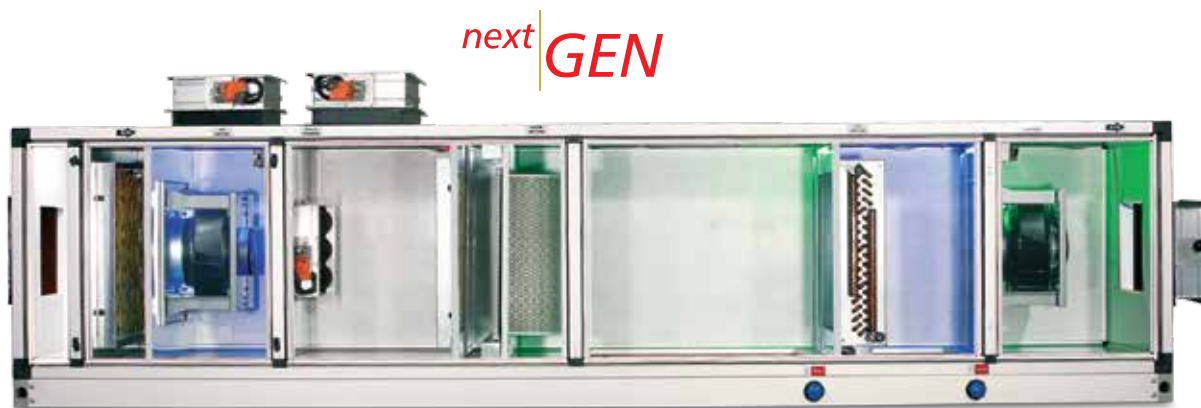
Ventilation Unit Exhaust
Capacity Range: 1200 CFM to 40000 CFM

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 CO₂ 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% redundancy.

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 / m²C and density of 38-40 kg/m³ 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 1/2", 5/8" and 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.

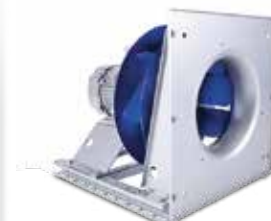
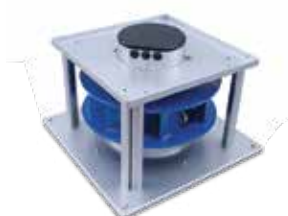
Edgetech Coils over the years have evolved as world class products, thanks to quality that is the best in the business. Leading edge technology, excellence in engineering, and flexible production formats for complete customer satisfaction -- all make Edgetech Coils the perfect choice for Air Handling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

SUPREME EFFICIENT FILTER FOR UNSEEN IMPURITIES



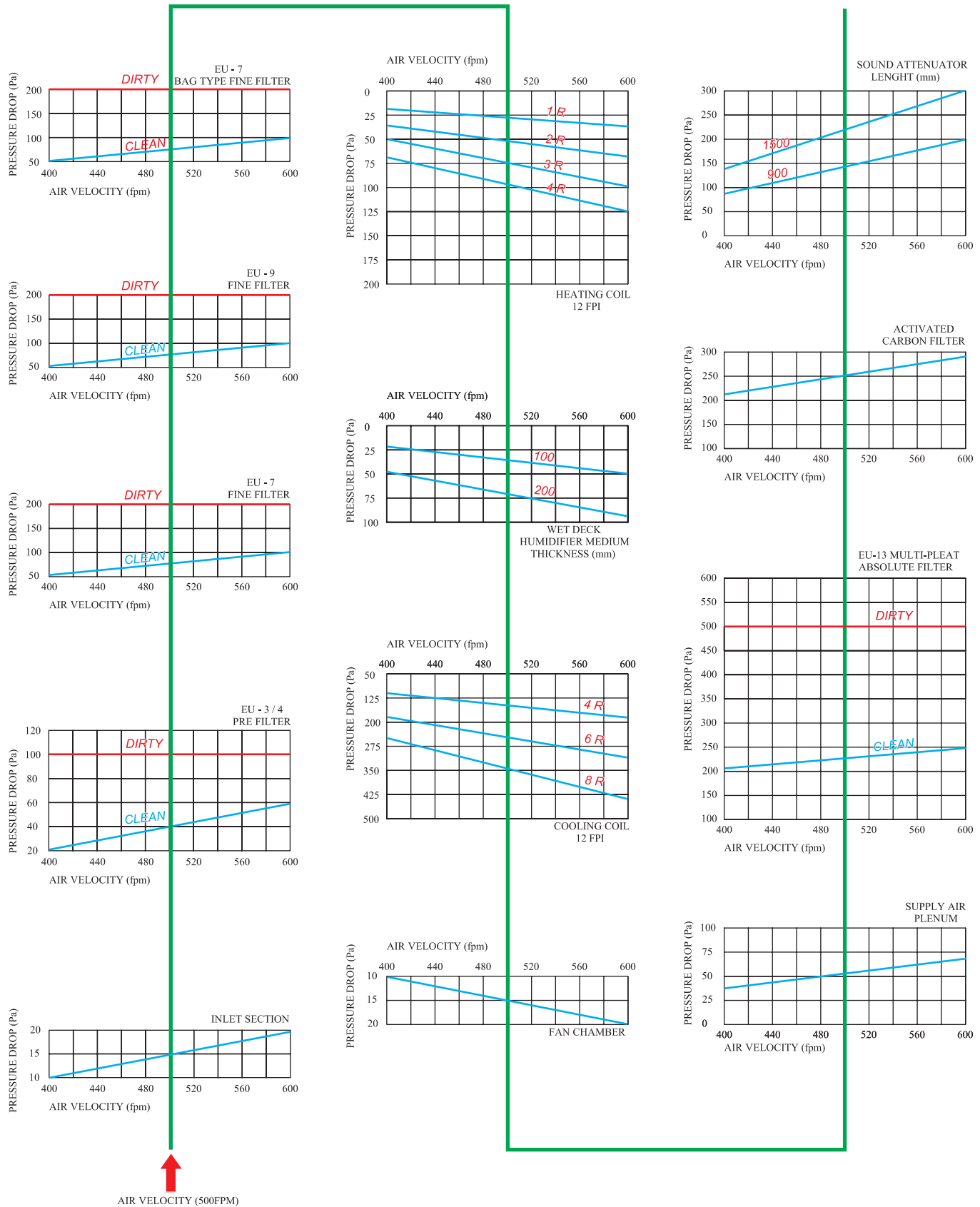
Fully sealed filter sections are designed for easy withdrawal and renewal of filter cells and are constructed to house any type of primary or secondary filters of different media with variable efficiencies.

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 | 25000 | 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 |

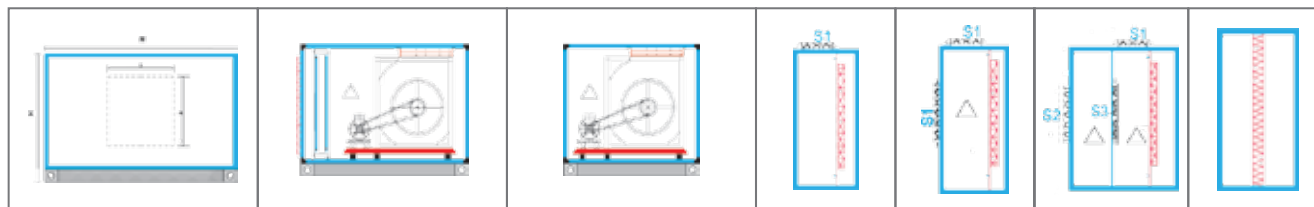
Forward / Backward / Airfoil Blade Series

| 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 Dimentions (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 mention above. For 43 / 50 / 60mm thick panels and 50 mm extra to the width (w), height (H) and length (L) of the unit.
- * Symbol in the various section above shows acces 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 tour technical assistance department.
- * For 900mm Silencer add 1200 mm to total length of AHU and for 1200 mm Silencer add 1500 mm to total length of AHU.
- * All dimension are in mm
- * Fan out let velocity at 9 to 10 m/s

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | FILTER SIZES A=610 X 610 B=610 X 305 C=305 X 305 (all dimension in mm) |
|--|--|--|--|--|--|--|--|--|--|

| 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 |

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*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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