



CRYSTAL  
*Where Air is Life...*



*Integrating Air into Life*

[www.crystalairsystems.co.in](http://www.crystalairsystems.co.in)



Crystal Air Systems is to provide state of the art technology to comfort human life with its constant innovation and smart designs



COMMERCIAL SPACES • INDUSTRIAL SPACES • HYGIENE SYSTEMS • PROCESS MANUFACTURING • IT INDUSTRIES



# We Are



The foundation stone of the organization has been set at New Delhi (INDIA) in 2006 on 6,000 sqft area. Today the organization has become a world class manufacturer for AIR MANAGEMENT PRODUCTS at 30,000 sqft. area on which our most modern construction takes place.

Crystal Air Systems seek immense pleasure in introducing themselves as one of the most reliable & prominent manufacturer for products like:

AIR HANDLING UNITS , FAN COIL UNITS, AIR COOLING UNIT, AIR WASHER, AIR SCRUBBER, FRESH AIR, AIR EXHAUST & other air distribution products.

Crystal have in house State of Art Manufacturing Facilities to cater specific needs of our esteemed customer has per emerging demands & customize requirements. Our utmost concern area is quality check & delivery schedule of the product manufactured through our stringent quality test.

Crystal has a work force of qualified experienced engineers who's industry knowledge will create our remarkable production with stringent quality checks and maintenance. Customer satisfaction is our biggest concern we assure to provide value for money of the product.

We at Crystal air systems commit ourselves to provide cost effective air distribution solutions as per the customer requirement & shall endeavour to achieve & exceed the expectation of our customer by making continual improvement in our existing development process through technical & technological up gradation & innovation.

We at Crystal assured the first opportunity offered to us will be the foundation stone for a long & lasting business relationship. Assuring the best of the services in times to come.

# Air Handling Unit

## CAPACITY RANGE:

1000 CFM (2.5 TR) upto 80000 CFM (100 TR)

## TYPES:

- Ceiling Suspended Type (Air Handling Unit)
- Vertical Type (Air Handling Unit)
- Horizontal Type (Air Handling Unit)
- TFA (Special Air Treatment Unit)

## APPLICATIONS:

Hotel, Hospital, Offices, Class Rooms, Malls, Pharmaceutical industry.

## FEATURES:

- Casing made out of pre coated/Galvanised/Powder coated Sheets (GI).
- Usage of Heavy duty Extruded Aluminium profile construction
- Sturdy access doors with extra strong locks, handles and knobs for leak proof fittings

- 25/50 mm thick External and Internal flush panels
- Panels are filled with thick pressure injected polyurethane foam, having 40 kg / cum density
- High efficiency, AMCA Certified, Imported Blowers are used
- forward curved blowers for normal applications.
- back ward curved for high resistance applications.
- Thermal break construction.

## OPTIONS:

- Thermal break with covered profile
- Heating coil
- Face and pass damper
- Humidifier
- Air mixing chamber
- S.S. drain tray

## Ceiling Suspended Type (Air Handling Unit)

**CAPACITY RANGE:** 800 CFM upto 10000 CFM

## TYPES:

- Belt type
- Direct driven

**APPLICATIONS:** Comfort Air-conditioning – For Shopping Malls, Multiplexes, and Small offices.

## FEATURES:

- Compact, low height, with single /Twin centrifugal fan.

## OPTIONS:

- Direct driven/ Belt driven options.
- Units available in Double / Single skin.
- Direct Driven units with single-phase motors.



## Vertical Type (Air Handling Unit)

**CAPACITY RANGE:** 800 CFM upto 12000 CFM

**APPLICATIONS:** Comfort Air-conditioning – For Shopping Malls, Multiplexes, and Small offices, Hotels.

## FEATURES:

- Customized Units available up to 18000 cfm.

## OPTIONS:

- Belt driven units available in Double / Single skin.
- Compact, Space saving with single /multi centrifugal fan.



## Horizontal Type (Air Handling Unit)

**CAPACITY RANGE:** 1000 CFM to 80000 CFM

**APPLICATIONS:** Comfort Air Conditioning – For Schools, Studio, Airports, Laboratories, Multiplexes, Offices, Institutional Buildings, and Hotels.

**FEATURES:** The Unit is manufactured as per the customer's requirements.

**OPTIONS:**

- Single/Double Tier Construction.
- Thermal break profile with 25/43mm panel thickness.
- Filter sections for EU-5, EU-7, in Rigid /Bag construction.
- Heat recovery Wheel/Heat Pipe.
- Humidification, Pre/ Re Heat Package.
- Mixing Box with Fresh/Return Air Dampers



## TFA (Special Air Treatment Unit)

**CAPACITY RANGE:** 1000 CFM to 50000 CFM

**APPLICATIONS:** Comfort, Clean Room, IAQ, and Energy Recovery. For Operation Theatre/ICU/ICCU, Pharma, Laboratories

**FEATURES:** The Unit is manufactured as per the customer's requirements.

**OPTIONS:**

- Single/Double Tier Construction.
- Thermal Break Profile with 25/43 mm Panel thickness.
- Filter sections for EU-7, EU-9, EU-13, Carbon Filters in Rigid/Bag construction.
- Heat recovery Wheel/Heat Pipe.
- Humidification, Pre/Re Heat Package.
- Backward curved blower.
- Plenum Fan
- Motorized Supply/Return/Exhaust/Bypass/Fresh air Dampers.



## Fan Coil Unit

**CAPACITY RANGE:**

400 CFM ( 1 TR ) to 1200 CFM ( 3 TR )

**TYPES:**

- Chilled water
- Direct Expansion

**APPLICATIONS:** Hotel, Hospitals, Offices, Class rooms, Studio, Shopping Malls.



**FEATURES:**

- Casing made out of Pre coated / Galvanized / Powder coated sheets.
- Sandwiched insulated drain pan with expanded polystyrene.
- Vibration free, noise less, single phase direct driven motor with

**OPTIONS:**

- Ceiling / Wall mounted
- Three-way Mixing / diverting Valves
- Ball Valve set

# Air Washer



**CAPACITY RANGE:** 1000 CFM upto 100000 CFM

**TYPES:** Pad type air washer

**APPLICATIONS:** Hotel, Hospital, industry, Colleges, Theatre

**FEATURES:**

- Fill type system can attain very high saturation efficiencies as against conventional system.
- Compact per-fabricated design to take less space, consuming only 40% of conventional systems.
- Power consumption negligible as compared to spray machine due to low pump power and low pressure drop.
- Quick installation as machine is factory fabricated and tested and has flexibility in regard to re-location at a later date.

**OPTIONS:**

- Double/Single skin
- water tank in Stainless Steel – 202/304
- Cooling Pad 200/300mm
- PVC Eliminator
- Water Pump
- Intake louvers and bird screen

# Air Scrubber



**CAPACITY RANGE:** 10000 CFM upto 100000 CFM

**TYPES:**

- Wet Scrubber
- Dry Scrubber

**APPLICATIONS:** Hospital, Hotel kitchen, College, Industry and other

**FEATURES:**

- Corrosion resistant AMCA rated fan on the inlet or outlet side of the scrubber.
- Corrosion resistant recirculating pumps for scrubber liquid re-circulation.
- Non-plugging spray nozzles for wetting packing in a wide range of corrosion resistant materials.
- Moisture eliminators with chevron, mist pad, or loose fill type designs.

**OPTIONS:**

- Double and single skin.
- Water tank in stainless steel 202/304.
- Eliminator section, PVC/GI Eliminators.
- Backward curved blower.
- Double bank filter section.
- Single/Double bank spray chamber.

# Fresh Air

**CAPACITY RANGE:**

1000 CFM upto 10000 CFM.

**TYPES:**

- Coiling type
- Floor mounted

**APPLICATIONS:**

Hospital, Hotel, Colleges and many other uses.

**FEATURES:**

- Highly suitable for fresh air.
- Specially designed for pharmaceutical.
- Available with pre-filters.

**OPTIONS:**

- Cowl
- Fine Filters
- Hepa Filters
- Dampers



# Air Exhaust

**CAPACITY RANGE:**

1000 CFM upto 100000 CFM

**TYPES:**

- Ceiling suspended .
- Floor mounted.

**APPLICATIONS:**

Hospital, Hotel kitchens, Colleges, Homes and many other application.

**FEATURES:**

- Highly suitable for the exhaust.
- Specially designed for pharmaceutical.

**OPTIONS:**

- Cowl
- Dampers



# Air Curtain

We offer a wide range of air curtains using mild steel, galvanized sheets, stainless steel, board laminates (powder coating is rendered on both sides of M.S/ G.I sheets). However specific sizes can also be provided by us as per the customer's applications. These air curtains provide thermal barrier to prevent heat transfer to and from premises. These also prevent dust or insect infiltration into usable space. Our standard sizes are: 2ft, 3ft, 4ft, 5ft, 6ft, 7ft



# Axial Flow Fans

Crystal Axial Flow fans are designed for air ventilation in commercial or industrial building and are available from 315 mm dia to 1600 mm dia that covers the cfm upto 100000.

The blade pitch is field adjustable to accommodate system changes.

The casing design and construction are well suited for indoor or outdoor applications and can be easily installed in ducted or non-ducted systems.

Fans and blades are designed to reduce operating cost with improved efficiency design offers inherently lower sound level than other axial fans.

## Types :

- Axial flow fan ( Normal Series)
- Axial flow fan ( High Temp. Series for 250 & 300 upto 2 hrs.)

## Application :

- General Ventilation
- Emergency Smoke and Heat Exhaust
- Car Ventilation / Basement
- Stairwell pressurization



## Construction :

- Fan casing is made of heavy gauge M.S sheet. It has flanges at both ends for easy fixing.
- Impellers is made of Die cast aluminium having Aerofoil design with adjustable pitch angle.
- Maintenance free reliable IEC motors.

## Options :

- Pedestal Stand
- Bird Screen
- Sound Attenuator





# Coils

Crystal Manufacturer Coils in 1/2" & 3/8" for the commercial and Industrial applications.

These coils can be made from 2 row to 12 row deep.

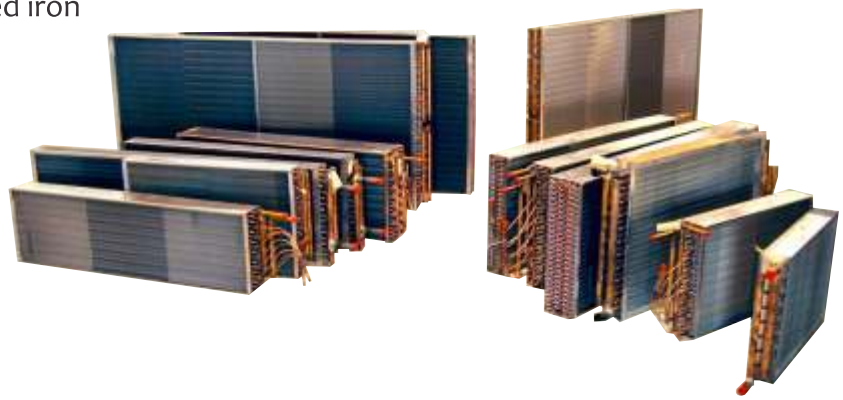
Crystal plays a very important role in procurement of copper tube and aluminum foil from across the globe to maintain the international standard.

## Features :

- Aluminum foils with or without hydrophilic coating
- End Plate Stainless steel/ Galvanized iron

## Types :

- Direct Expansion
- Chilled Water
- Heating



# Filters

**HEPA Filters** The standard HEPA Filters made by us are 99.9% efficient at 0.3 microns which enables better than Class 100 conditions. These filters can be directly installed in AHUs or mounted in banks in separate single skin plenums. Following are the construction features of our range:

- Filter media micro fiber glass.
- Frame material aluminum/GI/SS/MS.
- Frame type box/flange/channel.



**FINE Filters** are widely used in pharmaceutical, clean room, semi-conductor, biotechnology, photo film, optical, precision mechanical, critical O.T, defense, air handling units and air conditioning etc as secondary or final filter. These filters are resistant to chemicals & organic solvents. Following are the construction features of our range:

- Filter media synthetic non woven deepa pleated and panel type
- Media support aluminium and HDPE wire mesh.
- Efficiency 95 % down to 0.5µ.



**PRE- Filters** are widely used in air conditioning ,Air Handling units, pharmaceutical, clean room, semi-conductor, biotechnology, photo film, optical, precision mechanical, critical O.T, defense etc as Pre filter and riser filters. Following are the construction features of our range:

- Filter media synthetic non woven
- Efficiency 90 % down to 10µ.
- Thickness available 25 mm /50 mm



# Air Distribution Range

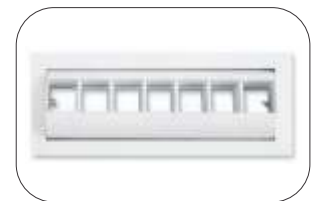
**Air Distribution & Architectural Products** refers **Rectangular & Square ceiling diffusers, Linear Grills, Volume Control Devices, Fresh Air Louvers & Fire & Smoke Control Dampers**

- Aluminum Powder Coated Fixed Bar Linear Grills
- Aluminum Powder Coated Removal Core Type Grills
- Aluminum Powder Coated Single Louver Adjustable Grills
- Aluminum Powder Coated Double Louver Adjustable Grills
- Aluminum Powder Coated Rectangular/Square Ceiling Diffusers
- Aluminum Powder Coated Multi Slot Diffusers (with & without Hit & Miss Damper)
- Aluminum Powder Coated Linear Diffuser (One/Tway Way)
- Aluminum Powder Coated Special Jointless Round Diffuser
- Aluminum Powder Coated Perforated Diffusers
- Aluminum Key Operated Volume Control Dampers
- Aluminum Powder Coated Fresh Air Assembly
- Aluminum Low Leakage (ABS Gear Drive) Volume Control Damper
- G.I. Duct Volume Control Dampers
- G.I. Smoke & Fire Control Dampers

**FINISHES:** Most of our products come with powder coated finish with any colour to suit the interiors. Anodized Aluminum finish is also available.

**FIXING:** The Grills & Diffusers are produced with concealed Screw spring Action Clip, Fixing arrangement. Exposed screw type fixing can be made on special request.

**MATERIAL OF CONSTRUCTION:** All our products are made from high grade aluminum, Extrusion for maximum strength, Corrosion Resistance, Light Weight & Dimensional Stability.

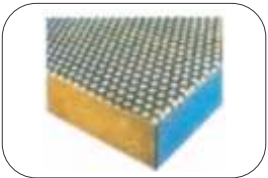


# Accessories



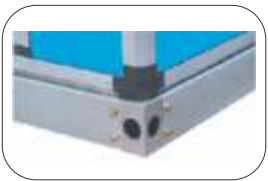
## Frame Work

Corrosion resistant aluminum profile with specially designed 3-way corners. (thermal break on demand)



## Frame Panels

Double skin sandwich panels fabricated from inside with 0.63mm (24 G) galvanized sheet steel and outside with 0.63mm (24 G) pre-coated galvanized sheet steel. The panels have infilled insulation of 40 Kg/m<sup>3</sup> density puf injection/puf slab, resulting in high rigidity and sound attention characteristics.



## Base Frame

Base frame is made of galvanised steel with die cast aluminum joints having lifting holes.



## Condensate Drain Pan

Drain pan can be made of aluminium/ G.I / S.S with dual slope to facilitate immediate discharge of condensate. Specially designed drain pan with all round edges allow complete cleaning and avert microbial growth.



## FAN Section

Nicotra or kruger centrifugal fans are used either SISW or DIDW type with forward curve or backward curved driven with belts as per static pressure requirements.



## Celdek Pad

Celdek pad is used in evaporative cooling unit. It can be used with the depth of 200 /300 mm. The Cellulose pad is cross corrugated coated with anti rot, rigidifying & wetting resins makes the material stiff and self supporting.



## Inspection Glass

Port Hole Used In Air Handling Unit Sight Window For Checking Operation In Machine



## Hinges and Locks

Assess doors are provided with hinges and locks made of self extinguishing nylon for perfect air tightness.

# Certification

Crystal boasts of an extremely hard-to-please team of quality control specialists.

Every Equipment manufactured at crystal must pass a rigorous quality control program. Raw materials are inspected for defects and inconsistencies. During each step of production the components are reviewed for quality workmanship.



# Clients

“Crystal” have a very wide range of satisfied clients. IT industry, Govt. offices & establishments, VVIP residences, Public sector undertakings, Defence sector, Telecom, pharmaceuticals, food processing & hospitality industries, Industrial, corporate & business houses, Banks, financial institutions, stock exchanges and many more...



## QUICK SELECTION CHART OF CEILING SUSPENDED AIR HANDLING UNITS

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FPM	COIL AREA (sq. ft.)	FILTER AREA (sq. ft.)	FAN SIZE	MOTOR (KW)	SIZES		
										L	W	H
CAS/DU-010	1000	32	8.00	1632	500	2	2	KAT 7X7	0.55	1090	800	555
CAS/DU-012	1200	32	7.26	1268	500	2.4	2.4	KAT 9X9	0.55	1140	975	575
CAS/DU-015	1500	32	9.07	1173	500	3	3	KAT 9X9	0.55	1140	975	575
CAS/DU-020	2000	32	9.87	1027	500	4	4	KAT 10X10	0.75	1190	1085	630
CAS/DU-025	2500	32	7.56	1268	500	5	5	KAT 9X9 C2L	1.10	1140	1250	575
CAS/DU-030	3000	32	9.07	1220	500	6	6	KAT 9X9 C2L	1.50	1140	1775	575
CAS/DU-035	3500	32	8.64	1059	500	7	7	KAT 10X10 C2L	1.50	1225	1585	655
CAS/DU-040	4000	32	9.87	1068	500	8	8	KAT 10X10 C2L	1.50	1190	2075	630
CAS/DU-045	4500	32	7.89	965	500	9	9	KAT 12X12 C2L	2.20	1190	2175	630
CAS/DU-050	5000	32	8.76	930	500	10	10	KAT 12X12 C2L	2.20	1290	1875	710
CAS/DU-060	6000	40	10.52	1030	500	12	12	KAT 12X12 C2L	3.00	1050	2250	730
CAS/DU-070	7000	40	8.68	902	500	14	14	KAT 15X15 C2L	3.00	2190	1710	1100
CAS/DU-075	7500	40	9.30	897	500	15	15	KAT 15X15 C2L	4.00	1700	2150	940
CAS/DU-080	8000	40	9.93	896	500	16	16	KAT 15X15 C2L	4.00	1700	2200	940

## QUICK SELECTION CHART OF HORIZONTAL AIR HANDLING UNITS

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FPM	COIL AREA (sq. ft.)	FILTER AREA (sq. ft.)	FAN SIZE	MOTOR (KW)	SIZES		
										L	W	H
CAS/HAU-010	1000	32	8.00	1632	500	2	2	KAT 7X7	0.55	1525	895	700
CAS/HAU-030	3000	32	7.44	780	500	6	6	KAT 15X15	1.10	1800	1150	900
CAS/HAU-050	5000	32	8.87	640	500	10	10	KAT 18X18	1.50	1950	1350	1175
CAS/HAU-070	7000	40	10.24	692	500	14	14	FDA 450	3.00	2025	1700	1275
CAS/HAU-100	10000	40	11.06	666	500	20	20	FDA 500	5.50	2225	2075	1475
CAS/HAU-125	12500	40	11.57	584	500	25	25	FDA 560	5.50	2350	2300	1600
CAS/HAU-150	15000	40	11.07	525	500	30	30	FDA 630	7.50	2500	2550	1725
CAS/HAU-200	20000	40	11.72	465	500	40	40	FDA 710	11.00	2750	2800	2075
CAS/HAU-250	25000	40	11.66	399	500	50	50	FDA 800	11.00	3000	3050	2350
CAS/HAU-300	30000	40	11.09	356	500	60	60	FDA 900	15.00	3250	3300	2600
CAS/HAU-400	40000	40	11.78	324	500	80	80	FDA 1000	18.50	3750	3800	3100
CAS/HAU-500	50000	40	14.73	369	500	100	100	FDA-1000	30.00	2500	4000	2400
CAS/HAU-650	65000	40	12.02	396	500	130	130	FDA900X2	18.50X2	2600	4500	2800
CAS/HAU-800	80000	40	11.78	357	500	160	160	FDA1000X2	18.50X2	2800	4700	2900

## QUICK SELECTION CHART OF VERTICAL AIR HANDLING UNITS

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FPM	COIL AREA (sq. ft.)	FILTER AREA (sq. ft.)	FAN SIZE	MOTOR (KW)	SIZES		
										L	W	H
CAS/VAU-010	1000	32	8.00	1632	500	2	2	KAT 7X7	0.55	625	850	1225
CAS/VAU-020	2000	32	9.87	1027	500	4	4	KAT 10X10	0.75	700	1050	1500
CAS/VAU-030	3000	32	7.44	780	500	6	6	KAT 9x9 C2L	1.50	650	1555	1350
CAS/VAU-040	4000	32	9.93	770	500	8	8	KAT 10X10 C2L	1.50	700	1770	1450
CAS/VAU-050	5000	32	8.87	640	500	10	10	KAT 12X12 C2L	2.20	770	1950	1580
CAS/VAU-055	5500	40	9.75	718	500	11	11	KAT 12X12 C2L	3.00	770	2050	1625
CAS/VAU-060	6000	40	10.64	716	500	12	12	KAT 12X12 C2L	3.00	770	2100	1665
CAS/VAU-070	7000	40	10.24	692	500	14	14	KAT 15X15 C2L	3.00	850	2200	1910
CAS/VAU-080	8000	40	9.28	654	500	16	16	KAT 15X15 C2L	4.00	860	2250	1910
CAS/VAU-090	9000	40	11.17	896	500	18	18	KAT 15X15 C2L	4.00	950	2400	1950
CAS/VAU-100	10000	40	8.87	770	500	20	20	KAT 18X18 C2L	5.50	1050	2600	2065
CAS/VAU-110	11000	40	9.75	746	500	22	22	KAT 18X18 C2L	5.50	1050	2700	2075
CAS/VAU-115	11500	40	10.20	744	500	23	23	KAT 18X18 C2L	5.50	1050	2750	2100
CAS/VAU-120	12000	40	10.64	744	500	24	24	KAT 18X18 C2L	5.50	1050	2800	2130

## QUICK SELECTION CHART OF FAN COIL UNITS

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FPM	COIL AREA (sq. ft.)	FILTER AREA (sq. ft.)	FAN SIZE	MOTOR (KW)	SIZES		
										L	W	H
CAS/FCU-004	400	20	1	940	500	0.88	0.8	6X6 X 2	1/12	620	945	265
CAS/FCU-006	600	20	1.5	940	500	1.33	1.2	6X7 X 2	1/12	620	1145	265
CAS/FCU-008	800	20	2	940	500	1.77	1.6	7X7 X 2	1/12	635	1220	315
CAS/DU-010	1000	20	2.5	940	500	2.22	2	7X8 X 2	1/12	635	1220	365
CAS/DU-012	1200	20	3	940	500	2.66	2.4	8X8 X 2	1/5	670	1400	365
CAS/DU-012	1200	20	3	1300	500	2.66	2.4	8X7 X 2	1/3	670	1400	365

## QUICK SELECTION CHART OF AIR WASHER

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FPM	COOLING PAD AREA (sq. ft.)	ELIMINATOR AREA (sq. ft.)	FILTER AREA (sq. ft.)	FAN SIZE	MOTOR (KW)	PUMP (KW)	SIZES		
												L	W	H
CAS/AW-010	1000	40	8.00	1089	500	2	2	2	KAT 7X7	0.55	0.37	1250	728	1035
CAS/AW-030	3000	40	10.52	990	500	6	6	6	KAT 12X12	1.50	0.37	1700	1050	1100
CAS/AW-050	5000	40	8.87	741	500	10	10	10	KAT 18X18	2.20	0.37	1900	1170	1550
CAS/AW-070	7000	50	10.24	775	500	14	14	14	FDA 450	4.00	0.37	2050	1450	1500
CAS/AW-100	10000	50	11.60	736	500	20	20	20	FDA 500	5.50	0.37	2165	1700	1650
CAS/AW-125	12500	50	11.57	644	500	25	25	25	FDA 560	5.50	0.75	2300	2125	1800
CAS/AW-150	15000	50	11.07	580	500	30	30	30	FDA 630	7.50	0.75	2475	2050	2000
CAS/AW-200	20000	50	11.72	513	500	40	40	40	FDA 710	11.00	0.75	2600	2400	2200
CAS/AW-250	25000	50	11.66	445	500	50	50	50	FDA 800	11.00	0.75	2800	2700	2300
CAS/AW-300	30000	50	14.00	452	500	60	60	60	FDA 800	18.50	1.50	3200	3250	2350
CAS/AW-400	40000	50	11.78	357	500	80	80	80	FDA 1000	18.50	2.25	2850	4400	2600
CAS/AW-500	50000	50	14.73	369	500	100	100	100	FDA 1000	30.00	2.25	2850	4850	2600
CAS/AW-650	65000	65	13.22	323	500	130	130	130	FDA 1250	45.00	3.00	2850	5000	2600
CAS/AW-800	80000	65	16.27	330	500	160	160	160	FDA 1250	55.00	3.00	3150	7500	2600

## QUICK SELECTION CHART OF AIR SCRUBBER

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FPM	ELIMINATOR AREA (sq. ft.)	FAN SIZE	MOTOR (KW)	PUMP (KW)	SIZES		
										L	W	H
CAS/AS-010	1000	40	8.00	1089	500	2	KAT 7X7	0.55	0.37	2000	728	810
CAS/AS-030	3000	40	10.52	990	500	6	KAT 12X12	1.50	0.37	2200	850	990
CAS/AS-050	5000	40	8.87	741	500	10	KAT 18X18	2.20	0.37	2600	1120	1220
CAS/AS-070	7000	50	10.24	775	500	14	FDA 450	4.00	0.37	2650	1250	1500
CAS/AS-125	12500	50	11.57	644	500	25	FDA 560	5.50	0.75	2875	1750	1700
CAS/AS-200	20000	50	11.72	513	500	40	FDA 710	11.00	0.75	3250	2400	2050
CAS/AS-250	25000	50	11.66	445	500	50	FDA 800	11.00	0.75	3500	2600	2100
CAS/AS-300	30000	50	14.00	452	500	60	FDA 800	18.50	1.50	3500	2750	2500
CAS/AS-400	40000	50	11.78	357	500	80	FDA 1000	18.50	2.25	3900	3650	2550
CAS/AS-500	50000	50	14.73	369	500	100	FDA 1000	30.00	2.25	3900	4000	2550
CAS/AS-650	65000	65	13.22	323	500	130	FDA 1250	45.00	3.00	5125	5025	4500
CAS/AS-800	80000	65	16.27	330	500	160	FDA 1250	55.00	3.00	5500	5475	5100

## QUICK SELECTION CHART OF A FRESH AIR UNITS

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FPM	FILTER AREA (sq. ft.)	FAN SIZE	MOTOR (KW)	SIZES		
									L	W	H
CAS/FA-010	1000	40	8.00	1089	500	2	KAT 7X7	0.55	700	520	555
CAS/FA-030	3000	40	10.52	990	500	6	KAT 12X12	1.50	950	800	710
CAS/FA-050	5000	40	8.87	741	500	10	KAT 18X18	2.20	1250	1200	1000
CAS/FA-100	10000	50	11.60	736	500	20	FDA 500	5.50	1350	1500	1600
CAS/FA-125	12500	50	11.57	644	500	25	FDA 560	5.50	1450	1950	1475
CAS/FA-150	15000	50	11.07	580	500	30	FDA 630	7.50	1675	2000	1800
CAS/FA-200	20000	50	11.72	513	500	40	FDA 710	11.00	1775	2000	2100
CAS/FA-250	25000	50	11.66	445	500	50	FDA 800	11.00	2050	2600	2000
CAS/FA-300	30000	50	14.00	452	500	60	FDA 800	18.50	2050	3250	2100
CAS/FA-400	40000	50	11.78	357	500	80	FDA 1000	18.50	2500	3300	2400
CAS/FA-500	50000	50	14.73	369	500	100	FDA 1000	30.00	2500	4000	2400
CAS/FA-650	65000	50	12.02	396	500	130	FDA 900X 2	18.50X2	2600	4500	2800
CAS/FA-800	80000	50	11.78	357	500	160	FDA 1000X2	18.50X2	2800	4700	2900

## QUICK SELECTION CHART OF AIR EXHAUST

MODEL No.	CFM	S. P.	OUTLET VELOCITY	RPM	FAN SIZE	MOTOR (KW)	SIZES		
							L	W	H
CAS/EX-010	1000	40	8.00	1089	KAT 7X7	0.55	815	550	745
CAS/EX-030	3000	40	10.52	990	KAT 12X12	1.50	900	800	900
CAS/EX-050	5000	40	8.87	741	KAT 18X18	2.20	1250	1150	1000
CAS/EX-070	7000	50	10.24	775	FDA 450	4.00	1250	1250	1200
CAS/EX-100	10000	50	11.60	736	FDA 500	5.50	1350	1350	1300
CAS/EX-125	12500	50	11.57	644	FDA 560	5.50	1500	1500	1400
CAS/FA-150	15000	50	11.07	580	FDA 630	7.50	1675	1675	1600
CAS/FA-200	20000	50	11.72	513	FDA 710	11.00	1750	1750	1750
CAS/FA-250	25000	50	11.66	445	FDA 800	11.00	2050	2050	1900
CAS/FA-300	30000	50	14.00	452	FDA 800	18.50	2050	2050	1900
CAS/FA-400	40000	50	11.78	357	FDA 1000	18.50	2500	2500	2300
CAS/FA-500	50000	50	14.73	369	FDA 1000	30.00	2500	2500	2300
CAS/FA-650	65000	50	12.02	396	FDA 900X 2	18.50X2	2600	4500	2800
CAS/FA-800	80000	50	11.78	357	FDA 1000X2	18.50X2	2800	4700	2900

## *Our Product Range*

- ▶ **Air Handling Unit (Belt drive/Direct drive)**  
Capacity Range (1000 CFM–80000 CFM)
- ▶ **Air Cooling Unit (Double & Single skin)**  
Capacity Range (1000 CFM–80000 CFM)
- ▶ **Evaporative Cooling Unit/Air Washer (Double & Single skin)**  
Capacity Range (1000 CFM–100000 CFM)
  - ▶ **Air Scrubbers (Double & Single skin)**  
Capacity Range (1000 CFM–100000 CFM)
  - ▶ **Fresh Air Unit (Double & Single skin)**  
Capacity Range (1000 CFM–100000 CFM)
  - ▶ **Air Exhaust Unit (Double & Single skin)**  
Capacity Range (1000 CFM–100000 CFM)
  - ▶ **AXil Flow Fan**  
Capacity Range (1000 CFM–100000 CFM)
  - ▶ **Fan Coil Unit (1 TR–3TR)**  
Capacity Range (400 CFM–1200CFM)
  - ▶ **Air Curtain**  
Capacity Range (3FT–7FT)
- ▶ **Extruded Aluminum Grills, Diffusers, Dampers, Fire Dampers etc.**

# CRYSTAL AIR SYSTEMS

(An ISO 9001-2008 CERTIFIED COMPANY)

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