



REFCON ENGINEERING WORKS

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The foundation stone of the organization has been set in GHAZIABAD in 2002 on approx 4000 sqft area.

REFCON seek immense pleasure in introducing itself as one of the most reliable and prominent manufacturer for products like Air handling unit, Air Cooling Units, Comfort Cooling , Cabinet fans and Ventilation Systems. We are recognized for development and installation of fresh air cooling system with versatile range of application for Industrial, Institutional spaces.

“Refcon attribute our success to our design, quality products, employee and an overall desire to do a great job for our customers. We constantly works to offer new products & techniques that pursue to give value addition to HVAC needs in more efficient manner.”

We have inhouse manufacturing facilities to cater specific needs of our esteemed customers as per emerging demands and customers requirements. Our utmost concern area is quality check & delivery schedule of the product manufactured.

WE at REFCON commit ourself to provide cost effective air distribution solutions as per the customers requirements and shall endeavour to achive & exceed the expectation of our customers by making continual improvement in our existing development process thru technical & technological upgradation and innovation.

We assured the first opportunity offered to us will be the foundation stone for the long lasting business relationship, assuring the best of the services in times to come.

AIR HANDLING UNIT

We are manufacturer and supplier of air handling unit that are widely used in the industries. Its main function is to reduce the temperature, control the humidity and eliminates the dust particles. It has the special features of low power consumption, maintenance free, noiseless operation, compact design. We also manufacture the AHU according to customers requirements.

Capacity Range: For 800 cfm to 40,000 cfm

TYPES OF AIR HANDLING UNIT :

- Horizontal Air Handling Unit
- Ceiling Suspended Ductable Unit (upto 8000 cfm)
- Vertical Air Handling Unit (upto 20,000 cfm)
- Treated Fresh Air Unit

FEATURES :

- Panel are made out from pre-coated GI PUF panels
- Heavy Duty extruded aluminium profile construction
- Access doors with extra strong locks & fittings
- High efficiency forward curved/Backward curved DIDW centrifugal blower (AMCA Certified)
- Choice of direct expansion cooling coil with chilled water cooling coil is available
- Fine filter options are available
- SS Drain pan available for proper drainage of condensate
- Mixing chambers of fresh air/rectun air is available
- TEFC induction motor AC supply 415 +/-10% volts.

CEILING SUSPENDED DUCTABLE UNIT (UPTO 8,000 CFM)

TYPE BELT DRIVEN/DIRECT DRIVEN:

APPLICATIONS :

- Offices
- Malls
- Comfort air conditioning
- Restaurants

FEATURES :

- Panel are made out from double / single skin.
- Heavy Duty extruded aluminium profile construction
- Access doors with extra strong locks & fittings
- High efficiency forward curved DIDW centrifugal blower (AMCA Certified)



VERTICAL DUCTABLE AIR HANDLING UNIT (UPTO 20,000 CFM)

We are manufacturer and supplier of air handling unit that are widely used in the industries. Its main function is to reduce the temperature, control the humidity and eliminates the dust particles. It has the special features of low power consumption, maintenance free, noiseless operation, compact design. We also manufacture the AHU according to customers requirements.

CAPACITY RANGE : For 800 cfm to 20,000 cfm

TYPES OF AIR HANDLING UNIT :

- Offices
- Malls
- comfort air conditioning
- Restaurants

FEATURES :

- Panel are made out from double / single skin.
- Heavy Duty extruded aluminium profile construction
- Access doors with extra strong locks & fittings
- High efficiency forward curved DIDW centrifugal blower (AMCA Certified)
- Choice of direct expansion cooling coil with chilled water cooling coil is available
- SS Drain pan available for proper drainage of condensate low height units



HORIZONTAL DUCTABLE AIR HANDLING UNIT

(Upto 20,000 cfm)

TYPE BELT DRIVEN/DIRECT DRIVEN

FEATURES :

- Panel are made out from double / single skin.
- Heavy Duty extruded aluminium profile construction
- Access doors with extra strong locks & fittings
- High efficiency forward curved DIDW centrifugal blower (AMCA Certified)
- Choice of direct expansion cooling coil with chilled water cooling coil is available
- SS Drain pan available for proper drainage of condensate
- low height units
- Can be added as per customers requirements
- Two stages of filtration EU-5, EU-7, etc.



AIR SUPPLY UNIT

Air Supply Unit deliver the required quantity of air with required level of filtration level.

CAPACITY RANGE :

Form 100 cfm to 40,000 cfm

FEATURES :

- Panel are made out from pre-coated GI PUF panels
- Heavy Duty extruded aluminium profile construction
- Access doors with extra strong locks & fittings
- High efficiency forward curved/Backward curved DIDW centrifugal blower (AMCA Certified)
- SS wet section with PVC eliminator
- TEFC induction motor AC supply 415 +/-10% volts
- Intake louvers at optional.

AIR COOLING UNIT

An air cooling unit is a machine that cleans the air as well as cools the air. Fresh air passes through filters and then through cooling pads resulting in a heat and mass (water vapour) exchange between the two. The direction of heat and mass transmission in the air cooling unit is determined by the mean temperature of water contact with air.

Capacity Range :
For 1000 cfm to 50,000 cfm

APPLICATIONS :

- Hotel
- Offices
- Restaurant kitchens
- Hospital
- Engineering Industries

FEATURES :

- Panel are made out from pre-coated GI PUF panels
- Heavy Duty extruded aluminium profile construction
- Access doors with extra strong locks & fittings
- High efficiency forward curved/Backward curved DIDW centrifugal blower (AMCA Certified)
- SS wet section with PVC eliminator
- TEFC induction motor AC supply 415 +/-10% volts
- Intake louvers at optional



AIR SCRUBBER

An air WET SCRUBBER unit is a machine that removes a variety of pollutants from exhaust gas from kitchen or from other sources. Wet scrubber can neutralize corrosive gases.

APPLICATIONS :

- Hotel
- Hospital
- Offices
- Engineering Industries
- Restaurant kitchens

FEATURES :

- Panel are made out from pre-coated GI PUF panels
- Heavy Duty extruded aluminium profile construction
- Access doors with extra strong locks & fittings
- High efficiency forward curved/Backward curved DIDW centrifugal blower (AMCA Certified)
- SS wet section with PVC eliminator
- TEFC induction motor AC supply 415 +/-10% volts
- Intake louvers at optional



AXIAL FLOW FAN

Axial flow fans is a propeller industrial fan, used to cool the area, equipments, a heavy duty exhaust industrial fan, blades are die casted dully balanced to meet the specific requirement. Axial flow fans are suitable for longer flow rate with relatively small pressure gain.



AIR FILTERS

Air filters are used in HAVAC system are important job to do. They filter dust, pollen and other small particles out of the air. These particles are trapped in the filters.



PRODUCT RANGE

- Metallic air Filters
- Syenthatic Air Filters
- Fine filters
- Baffel filters
- Primery Filters/ Pocket Filters

ROUND DIFFUSERS

Round Diffusers are designed to provide supply or return of conditioned air acceptable sound levels, pressure drops and uniform radial discharge in supply air applications.



SIZE RANGE: 150/200/250/300/375/400/450 mm

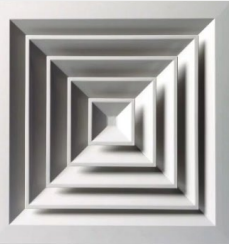
FEATURES:

High Aluminium sheet quality
INNER CORE ARE FIXED RIGIDLY WITH FRAME
Powder coatd

FINISH: Powder coated

SQUARE DIFFUSERS

Four way horizontal supply air discharge with fixed air control blades.



NORMAL SIZES

225, 300, 375, 450 mm neck size

FINISH: Powder coated

SLOTTED DIFFUSERS



Construction	High quality extruded aluminium profile
Frame	30 mm standard, 20 mm also available
Slot width	20 mm Standard
Nos of slots	1,2,3,4,5,6,7,8
Max, length	5800 mm

DAMPERS

HVAC Dampers also called as Duct dampers is a movable plate installed in GI Ducting arrangement which regulates the air quantity and redirect to its specific area.



Construction	GI, Aluminium and in MS
Available width	100 mm and 150 mm
Size	Customized

COOLING PADS

High efficiency cooling pads saturations efficiency ranging from 50 to 98% can be achived depending upon the air velocity and depth of pad.



Standard width	600 mm
Thickness	100/150/200/300 mm
Standard height	1200/1500/1800 mm
Flute angle	7 mm/5 mm
Coross Angle	45/45 deg

EYE BALL DIFFUSERS

Diffusers are recomended for delivering high stream of air over a long distance. These are suitable for large space or area with high ceiling,



Availabe dia	200/275/315/400 mm
Finish	Powder coated

CIRCULAR FANS

Design: The fan casing is made up of galvanised steels. Motor: The impellor with backward blades is powered by single phase motor with external rotor and overheating protection.



Technical Data

	VSM 125	VSM 150	VSM 200	VSM 250	VSM 315	VSM 315 (S)
Voltage (V/50 Hz)	230	230	230	230	230	230
Power (W)	80	150	150	200	250	290
Current (A)	0.38	0.65	0.7	0.9	1.1	1.34
RPM [min]	2500	2580	2580	2550	2500	2600
Noise level at 3m [dBA]	45	46	48	51	52	53
Maximum Operating temperature [°C]	-25+55	-25+55	-25+55	-25+50	-25+45	-25+45
Protection Rating	IP x 4	IP x 4	IP x 4	IP x 4	IP x 4	IP x 4
Insulation Class	F	F	F	F	F	F

AIR HANDLING UNIT CEILING SUSPENDED

S. NO.	CFM	SP	O/V	RPM	FPM	COIL AREA	FILTER AREA	FAN SIZE	MOTOR (HP)	UNIT SIZE (in mm)		
										LENGTH	WIDTH	HEIGHT
1	1000	32	9.78	1492	500	2	2	7 X7	0.5	1090	800	555
2	1200	32	7.25	1248	500	2.4	2.4	9 X9	0.5	1140	975	575
3	1500	32	9.07	1231	500	3	3	9 X9	0.75	1140	975	575
4	2000	32	9.87	1073	500	4	4	10 X10	1	1190	1085	630
5	2500	32	7.56	1302	500	5	5	9 X9 T2	1.5	1140	1250	575
6	3000	32	9.07	1293	500	6	6	9 X9 T2	1.5	1140	1775	575
7	3500	32	8.63	1122	500	7	7	10 X10 T2	2	1225	1585	655
8	4000	32	9.87	1127	500	8	8	10 X10 T2	2	1190	2075	630
9	4500	32	7.88	984	500	9	9	12 X12 T2	3	1190	2175	630
10	5000	32	8.76	975	500	10	10	12 X12 T2	3	1290	1875	710
11	6000	40	10.51	979	500	12	12	12 X12 T2	5	1050	2250	730
12	7000	40	8.68	772	500	14	14	15 X15 T2	5	2190	1710	1100
13	7500	40	9.3	772	500	15	15	15 X15 T2	5	1700	2150	940
14	8000	40	9.92	774	500	16	16	15 X15 T2	5	1700	2200	940

AIR HANDLING UNIT FLOOR MOUNTED

S. NO.	CFM	SP	O/V	RPM	FPM	COIL AREA	FILTER AREA	FAN SIZE	MOTOR (HP)	UNIT SIZE (in mm)		
										LENGTH	WIDTH	HEIGHT
1	1000	32	9.78	1492	500	2	2	7 X7	0.5	1525	895	700
2	3000	32	7.44	762	500	6	6	15 X15	1.5	1800	1150	900
3	5000	32	8.86	620	500	10	10	18 X18	2	1950	1350	1175
4	7000	40	10.2	641	500	14	14	450	3.75	2025	1700	1275
5	10000	40	11.59	642	500	20	20	500	5	2225	2075	1475
6	12500	40	11.54	573	500	25	25	560	7.5	2350	2300	1600
7	15000	40	11.06	510	500	30	30	630	7.5	2500	2550	1725
8	20000	40	11.7	424	500	40	40	710	10	2750	2800	2075
9	25000	40	11.64	373	500	50	50	800	12.5	3000	3050	2350
10	30000	40	11.09	325	500	60	60	900	15	3250	3300	2600
11	40000	40	11.76	302	500	80	80	1000	20	3750	3800	3100

AIR SUPPLY UNIT BLOWER SELECTION

S. NO.	CFM	SP	O/V	RPM	FILTER AREA	FAN SIZE	MOTOR (HP)	UNIT SIZE (in mm)		
								LENGTH	WIDTH	HEIGHT
1	3000	40	10.51	1036	6	12 X12	2	950	800	710
2	5000	40	11.5	905	10	18 X18	3	1250	1200	1000
3	10000	50	11.59	642	20	500	5	1350	1500	1600
4	12500	50	11.54	573	25	560	7.5	1450	1950	1475
5	15000	50	11.06	510	30	630	7.5	1675	2000	1800
6	20000	50	11.7	424	40	710	10	1775	2600	2100
7	25000	50	11.64	373	50	800	12.5	2050	3250	2000
8	30000	50	11.09	325	60	900	15	2500	3300	2100
9	40000	50	11.76	305	80	1000	20	2500	4000	2400

AIR COOLING UNIT BLOWER SELECTION

S. NO.	CFM	SP	PAD VELOCITY	O/V	RPM	MOTOR (HP)	COOLING PAD AREA	ELEMENATOR AREA (SQFT)	FAN SIZE	PUMP (KW)	UNIT SIZE (in mm)		
			FPM								LENGTH	WIDTH	HEIGHT
1	3000	40	500	10.51	1036	2	6	6	12 X12	0.37	1700	1050	1100
2	5000	40	500	11.5	905	3	10	10	18 X18	0.37	1900	1170	1550
3	7000	50	500	10.2	817	5	14	14	450	0.37	2050	1450	1500
4	10000	50	500	11.59	718	7.5	20	20	500	0.37	2165	1700	1650
5	12500	50	500	11.54	642	7.5	25	25	560	0.75	2300	2125	1800
6	15000	50	500	11.06	575	10	30	30	630	0.75	2475	2050	2000
7	20000	40	500	11.7	424	10	40	40	710	0.75	2600	2400	2200
8	25000	50	500	11.64	401	15	50	50	800	0.75	2800	2700	2300
9	30000	45	500	11.09	338	15	60	60	900	1.5	3200	3250	2350
10	40000	50	500	11.76	322	25	80	80	1000	2.25	2850	4400	2600

AIR SCRUBBER UNIT BLOWER SELECTION

S. NO.	CFM	SP	O/V	RPM	FILTER AREA	FAN SIZE	MOTOR (HP)	UNIT SIZE (in mm)		
								LENGTH	WIDTH	HEIGHT
1	3000	40	10.51	1036	6	12 X12	2	950	800	710
2	5000	40	11.5	905	10	18 X18	3	1250	1200	1000
3	10000	50	11.59	642	20	500	5	1350	1500	1600
4	12500	50	11.54	573	25	560	7.5	1450	1950	1475
5	15000	50	11.06	510	30	630	7.5	1675	2000	1800
6	20000	50	11.7	424	40	710	10	1775	2600	2100
7	25000	50	11.64	373	50	800	12.5	2050	3250	2000
8	30000	50	11.09	325	60	900	15	2500	3300	2100
9	40000	50	11.76	305	80	1000	20	2500	4000	2400



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