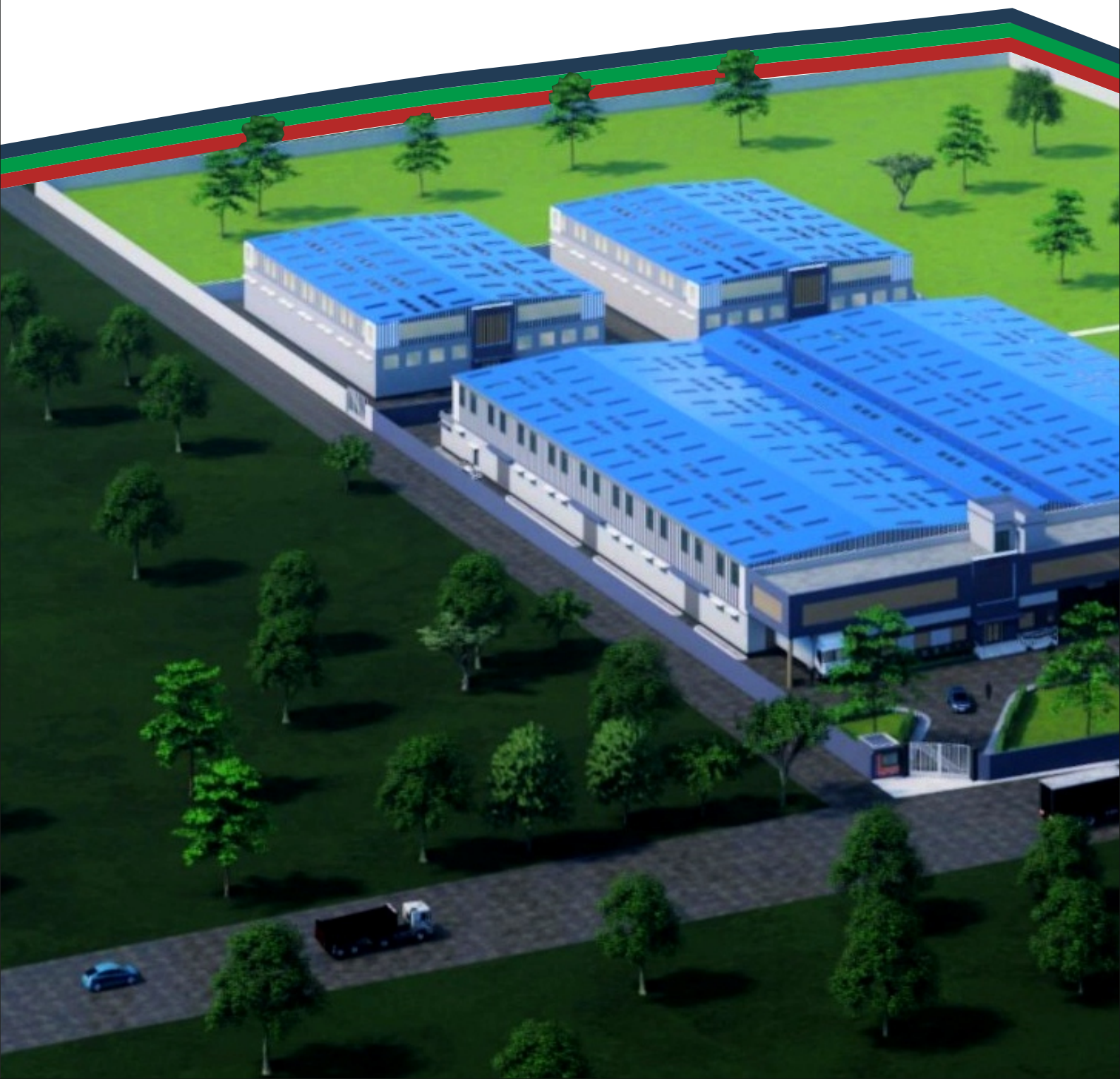


AIR HANDLING UNIT

Handling Air with Care.

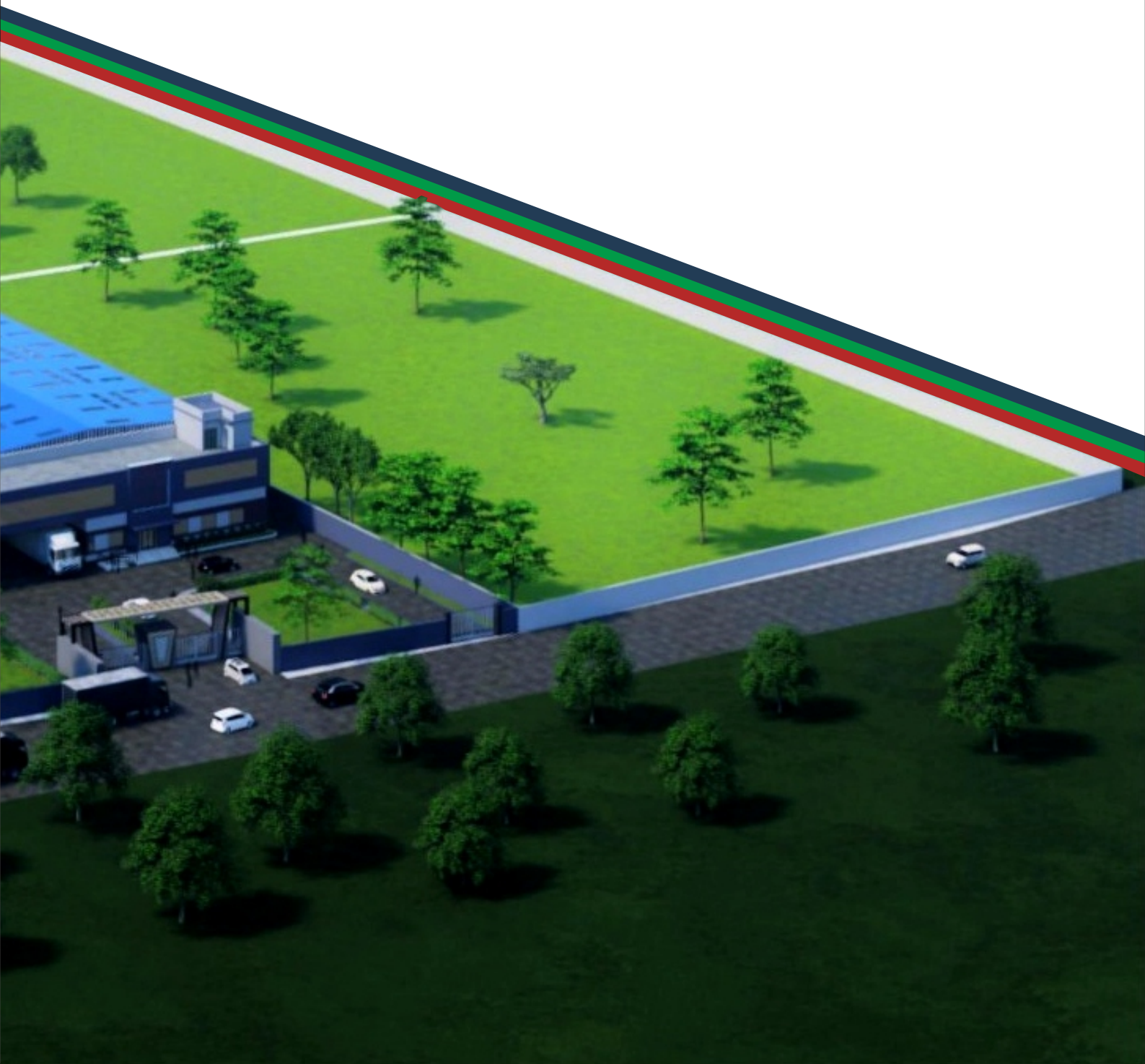


HUMIDIN OFFERS AIR POLLUTION CONTROL EQUIPMENTS,
VENTILATION & AIR CONDITIONING SYSTEMS.



Air pollution control equipments ventilation & air conditioning system By persistent endeavour and thorough application of engineering, design, and R&D; it has got various international certifications for its product range.

HUMIDIN has a world class, state-of-the-art manufacturing facility in more than 6 lac Sq.Ft Area in INDIA. Factories are well equipped with NC/CNC operated machines, HUMIDIN is looking to go forth by further improvement in its range of products & systems by enhanced research & development.



AIR HANDLING UNIT

An AHU is a critical component of HVAC systems, designed to regulate, circulate, and condition air for large-scale applications. It efficiently manages outside air through heating, cooling, humidification, or dehumidification, ensuring a clean, healthy, and comfortable environment. Built with high-quality coils, filters, fans, and controls, Humidin AHUs are engineered for reliability and durability. They are widely used in industries, hospitals, malls, pharmaceuticals, clean rooms, and other spaces requiring superior air quality.



FLOOR MOUNTED



CEILING SUSPENDED



VERTICAL AHU



FAN COIL UNIT

SIZE RANGE: 200 to 1600CFM
TONNAGE: 1 to 4 TR

Factory assembled, Horizontal, blow - thru type Fan Coil Unit shall be complete with water coil, fan motor drain pan and all required wiring, piping & controls.

CASING

Galvanized steel
 Thickness 0.8mm
 Base Material: With inside insulation of 6mm closed cell foam

OPTIONS

Double Skin fan Coil units with inner and outer casing made of 0.6mm galvanized pre coated sheet.

FANS

Direct driven, double width fan wheels with forward curved blades shall be statically and dynamically balanced. Scrolls shall be constructed of galvanized steel. Fan wheel shall be constructed of galvanised steel.

COOLING COILS

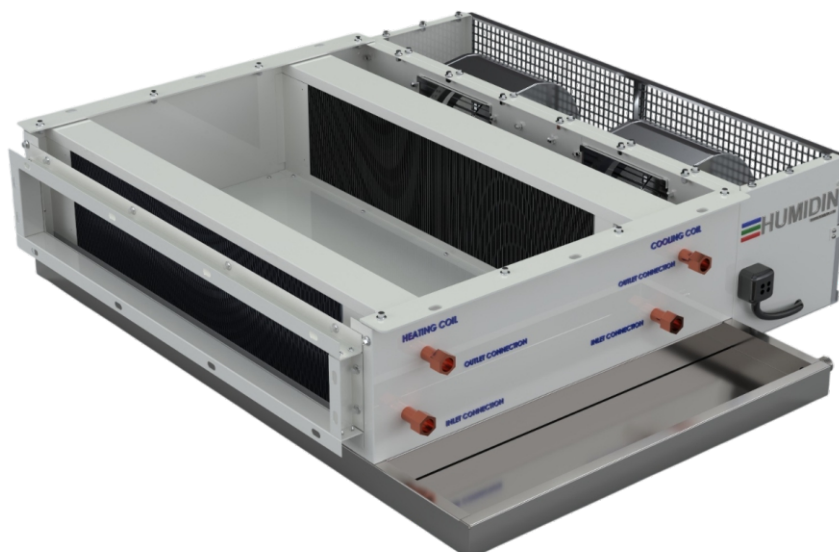
Standard base unit shall be equipped with a 3 or 4 row cell coil for installation in a 2 pipe system. Coils shall have 3/8 in copper tubes, aluminium fins bonded to the tubes by mechanical expansion, and a working pressure of 250 psi.

FILTERS

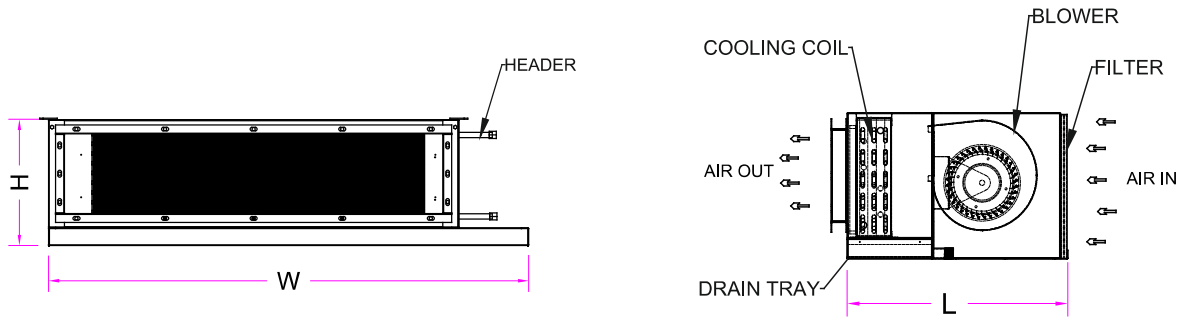
Filter accessible from rear end of the unit and is easily removable by pulling out from unit frame. EU-2 85% to 20 microns, 15 to 25 mm thick filter frame made out of aluminium.

DRAIN TRAY

Made out of SS-304, 0.8mm thick tank with nitrite insulation of 3mm and water outlet of ID^{3/4}.

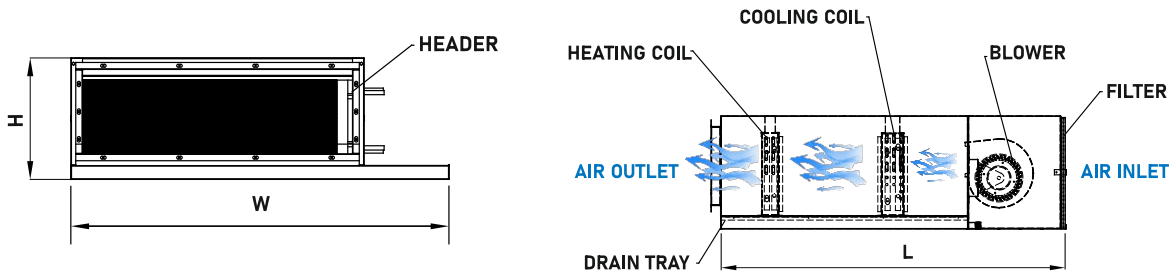


FAN COIL UNIT TECHNICAL



FAN COIL UNIT DESCRIPTION WITH 3 ROW COOLING COIL

	Tonnage (TR)	1	1.5	2	2.5	3
1	Air Quantity (CFM)	400	600	800	1000	1200
2	Over All Dimensions(L X W X H)(mm) Aprox	W-915 X L-575X H-256	W-1100 X L-575X H-256	W-1177X L-575X H-276	W-1255 X L-575X H-356	W-1355 X L-575X H-356
3	Coil Dimensions(H x L)(mm) Approx	H-196 X L-555	H-196 X L-740	H-196 X L-810	H-300 X L-850	H-300 X L-950
4	Outlet Dimension in mm	H-120 X L-620	H-120 X L-813	H-175 X L-890	H-240 X L-820	H-225 X L-1068
5	Approximate Noise level (DBA) at 3mtr	45	45	45	46	46
6	Fan Type	Forward Curve	Forward Curve	Forward Curve	Forward Curve	Forward Curve
7	Fan Speed (RPM)	930	930	930	930	930
8	Motor speed	3 Speed	3 Speed	3 Speed	3 Speed	3 Speed
9	Fan Diameter (Inch)	6/6 x 2 NOS	6/6 x 2 NOS	6/6 x 2 NOS	7/7 x 2 NOS	7/7 x 2 NOS
10	Motor Hp	0.125	0.125	0.125	0.50	0.50
11	Cooling Coil	CHW	CHW	CHW	CHW	CHW
12	Copper Tube Dia	3/8"	3/8"	3/8"	3/8"	3/8"
13	Rows Deep /FPI	3 RD / 11	3 RD / 11	3 RD / 11	3 RD / 11	3 RD / 11
14	Filter Class	G4	G4	G4	G4	G4



FAN COIL UNIT DESCRIPTION WITH 3 ROW COOLING COIL + 2 ROW HOT WATER COIL

	Tonnage (TR)	1	1.5	2	2.5	3	4
1	Air Quantity (CFM)	400	600	800	1000	1200	1600
2	Over All Dimensions(L X W X H)(mm) Aprox	W-915 X L-975 X H-256	W-1100 X L-975 X H-256	W-1177 X L-975 X H-276	W-1255 X L-1075 X H-356	W-1355 X L-1075 X H-356	W-1367 X L-1340 X H-480
3	Coil Dimensions(H x L)(mm) Approx	H-196 X L-555	H-196 X L-740	H-196 X L-810	H-300 X L-850	H-300 X L-950	H-317 X L-920
4	Outlet Dimension in mm	H-120 X L-620	H-120 X L-813	H-175 X L-890	H-240 X L-820	H-225 X L-1068	H-305 X L-975
5	Approximate Noise level (DBA) at 3mtr	47	47	47	47	48	48
6	Fan Type	Forward Curve	Forward Curve	Forward Curve	Forward Curve	Forward Curve	Forward Curve
7	Fan Speed (RPM)	1350	1350	1350	1350	1350	1350
8	Motor speed	3 Speed	3 Speed	3 Speed	3 Speed	3 Speed	3 Speed
9	Fan Diameter (Inch)	6/6 x 2 NOS	6/6 x 2 NOS	6/6 x 2 NOS	7/7 x 2 NOS	7/7 x 2 NOS	7/7 x 2 NOS
10	Motor Hp	0.25	0.25	0.50	0.50	0.50	1.00
11	Cooling Coil	CHW	CHW	CHW	CHW	CHW	CHW
12	Copper Tube Dia	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
13	Cooling Coil Rows Deep	3 RD	3 RD	3 RD	3 RD	3 RD	3 RD
14	Hot Water Coil	HWC	HWC	HWC	HWC	HWC	HWC
15	Hot Water Coil Rows Deep	2 RD	2 RD	2 RD	2 RD	2 RD	2 RD
16	Filter Class	G4	G4	G4	G4	G4	G4

APPLICATION



BASEMENT CAR PARKING



COMMERCIAL KITCHEN



POWER PLANTS



HOSPITALS OTS/ICUS



SHIP BUILDING/OFF SHORE



CHEMICAL INDUSTRY



MINING AND PUBLIC WORKS



TUNNELS (CAR /METRO)

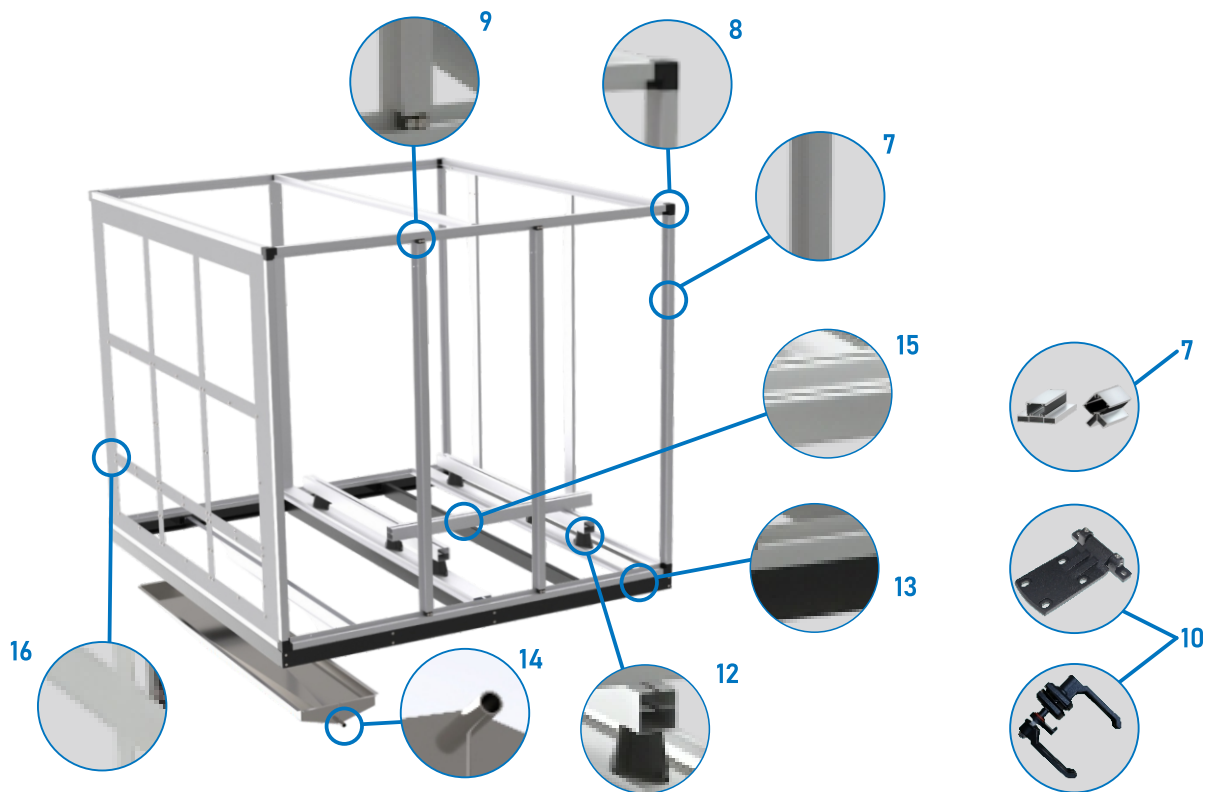


WAREHOUSES

OUR CLIENTS



STRUCTURE NOMENCLATURE



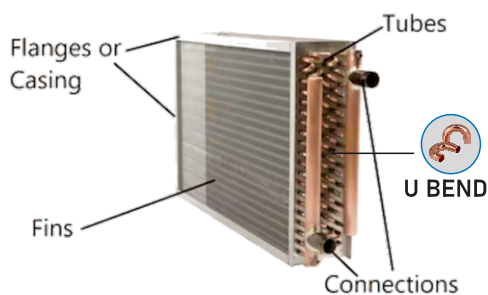
Steel supporting structure that ensures the rigidity of the entire unit and thermal inserts that guarantee the breaking of all thermal bridges.

AIR HANDLING UNIT		
STRUCTURE DETAILS		
1	PANEL CONSTRUCTION	DOUBLE SKIN
2	OUTER SKIN MOC	PRE PLASTICIZED GI
3	INNER SKIN MOC	PRE PLASTICIZED GI / ALUMINIUM / SS 304
4	THICKNESS OF OUTER SHEET IN MM	0.6 to 1
5	THICKNESS OF INNER SHEET IN MM	0.6 to 1
6	INSULATION	PUFF INSULATION, 40±2KG/M ³
7	ALUMINIUM PROFILE TYPE	THERMAL BREAK / HOLLOW PROFILE
8	PROFILE CORNER	PVC
9	PANEL JOINTER	PVC / ALUMINIUM
10	DOOR HANDLE / HINGE	PVC
11	PANEL THICKNESS WITH GASKET IN MM	25 / 50
12	FOOT MOUNT	CUSHY FOOT
13	UNIT BASE STAND	GI / MS
14	MATERIAL OF DRAIN PAN	SS 304
15	COMMON BASE FRAME (FAN & MOTOR)	AL. / GI / MS
16	FILTER FRAME	GI / AL / SS

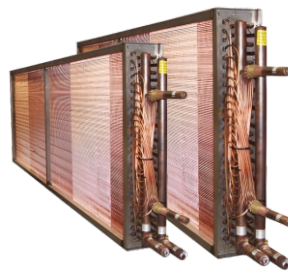
HEAT EXCHANGER COILS

HUMIDIN custom-designed Round Tube Plate Fin Heat Exchangers, for Custom & Replacement markets. Our coils can be selected using our coil selection software on their size or performance. Our wide range of tube sizes, On spacing, and coil connection orientations allow for a drop-in coil Ft. 100% of our coils are pressure tested for leaks to ensure we are producing quality products.

Our coils use mechanically expanded seamless copper tubes, are available with either smooth or enhanced internal surfaces. They are available in 3/8" & 1/2" Tube Diameters.



CHILLED WATER COIL



DIRECT EXPANSION COIL



STEAM COIL

AIR HANDLING UNIT		
COOLING COIL TECHNICAL		
1	COIL TYPE	CHW / DX / STEAM COIL
2	COOLING COIL END PLATE	GI / SS
3	NO.OF ROWS	3 / 4 / 6 / 8 / 10 / 12
4	TUBE DIA	1/2" & 3/8"
5	TUBE THICKNESS IN MM	0.4 - 0.5
6	FINS MOC	AL / CU / SS
7	FINS THICKNESS IN MM	0.15.
8	FINS FPI	11-13.
9	MOC OF COIL TUBE	CU / SS
10	MOC OF HEADER	MS / CU / SS

ACCESSORIES FOR AHU



ESP FILTER



PRE FILTER



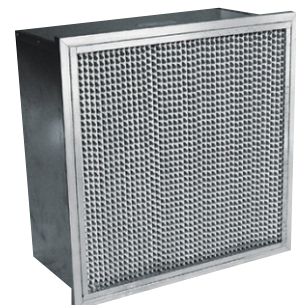
COMBINATION FILTER



BAG FILTER



HEPA FILTER



CARBON FILTER



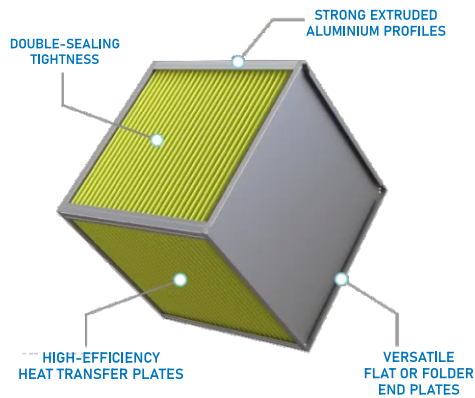
MANUAL DAMPER



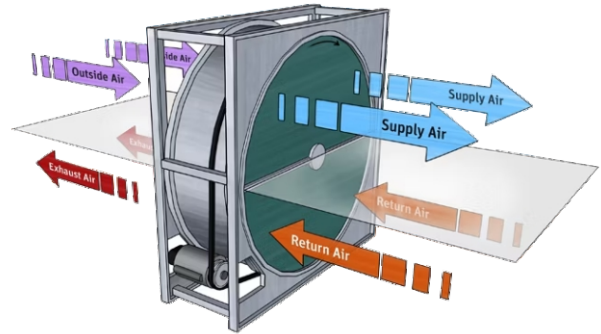
ACTUATED DAMPER



UV LIGHTS

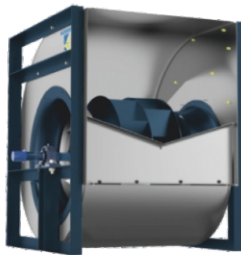


CROSS FLOW HEAT EXCHANGER

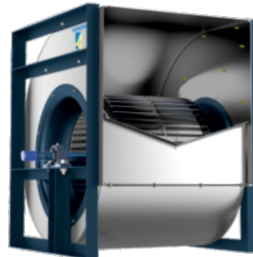


ENERGY RECOVERY WHEEL

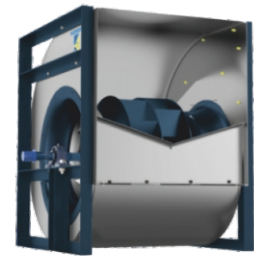
TYPE OF CENTRIFUGAL FANS



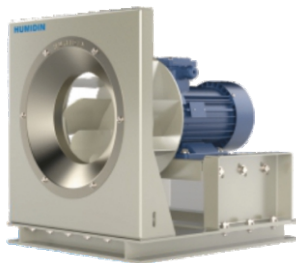
CENTRIFUGAL BLOWER
(DIDW) AEROFOIL



CENTRIFUGAL BLOWER
(DIDW) FORWARD CURVED



CENTRIFUGAL BLOWER
(DIDW) BACKWARD CURVED



PLUG FAN



EC FAN

CONTROL PANEL & MEASURING INSTRUMENTS



THERMOSTAT



DIFFERENTIAL PRESSURE SWITCH



ANTI-FROST THERMOSTAT



**THREE PORT VALVE
WITH ELECTRIC ACTUATOR**



VARIABLE FREQUENCY DRIVE



DUCT TEMPERATURE SENSOR



LIMIT SWITCH



PLC



HMI



BTU METER

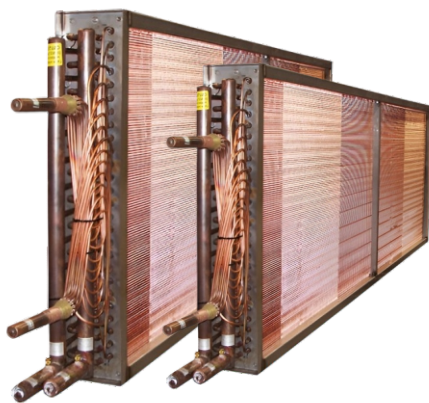
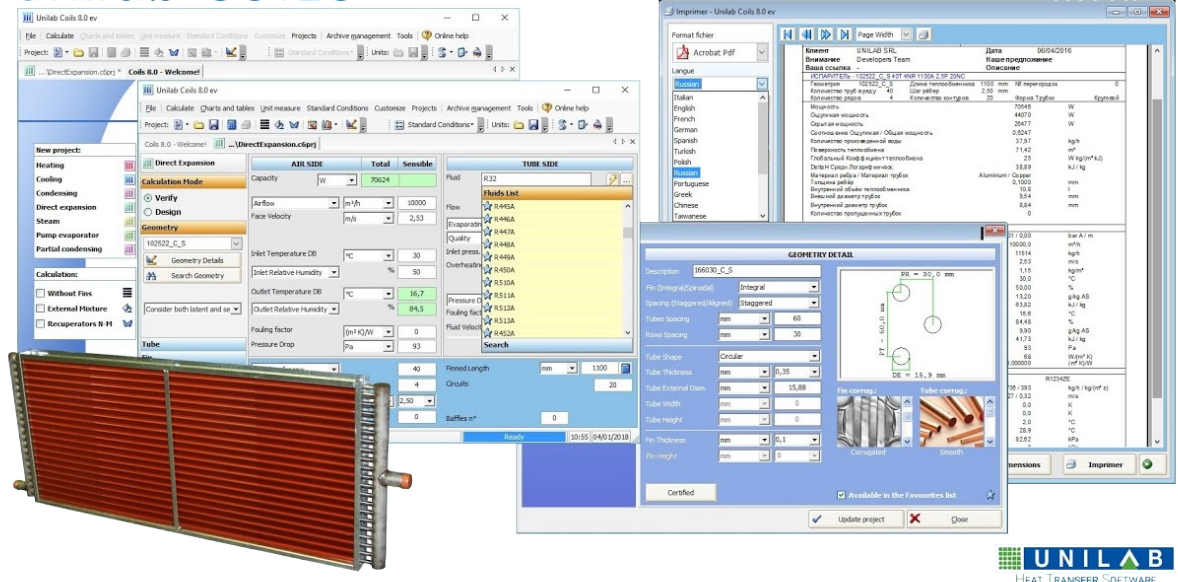
COOLING COIL SELECTION SOFTWARE

HUMIDIN use the best & most accurate software for the calculation of Coils Heat Exchangers and can be used in air conditioning, fan coils, industrial chillers and air handling units. It is an advanced tool for the calculation of both inned pack and smooth tube heat exchangers, and includes specific features for the HVAC market.

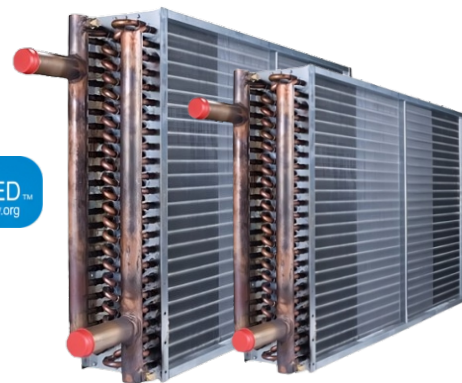
It allows you to calculate using any geometry and tube size (such as 3/8 in., 1/2 in., etc.) and comes with a list of more than 100 sample geometries.

It also allows you to select the best machines in the following modalities: heating, cooling and direct expansion. This is done by calculating the fan coils using our extremely accurate Coil software engine.

Unilab COILS



DIRECT EXPANSION COIL



CHILLED/HOT WATER COIL

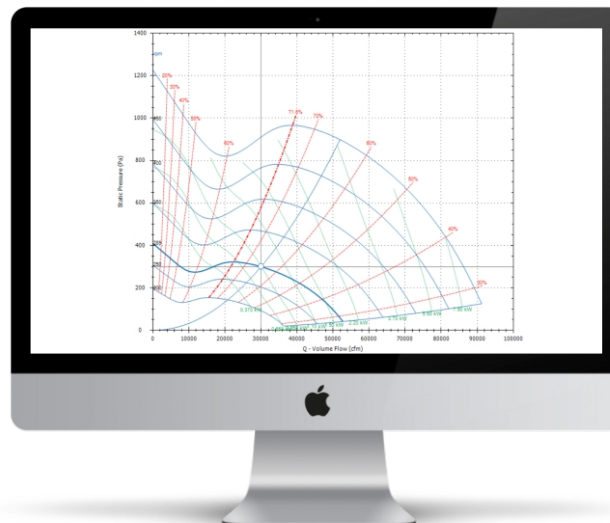


FAN SELECTION SOFTWARE

To make complete and accurate fan selections quickly, HUMIDIN comprehensive and user-friendly selection program. By simply specifying your performance requirements, selection program will be able to provide you with instant access to fan performance curves, sound data, efficiency, speed, motor capacity, drawings and much more, all at the click of a mouse.



FAN PERFORMANCE CURVE



To make complete and accurate fan selections quickly, HUMIDIN comprehensive and user-friendly selection program. By simply specifying your performance requirements, selection program will be able to provide you with instant access to fan performance curves, sound data, efficiency, speed, motor capacity, drawings and much more, all at the click of a mouse.

HUMIDIN

Sales & Marketing Department

North India: (Ventilation Dept.)

Phone: +91-9654400710

Email Id: tc@humidin.com

East India: (Ventilation Dept.)

Phone: +91-9654551093

Email Id: tceast@humidin.com

West India: (Ventilation Dept.)

Phone: +91-9654551015

Email id: tcwest@humidin.com

South India: (Ventilation Dept.)

Phone: +91-9654781452

Email Id: tcsouth@humidin.com

All India: (Air Handling Unit Dept.)

Phone: +91-9654557807

Email Id: ahu@humidin.com

After Sales Service Department (24x7)

Phone: +91-9654452926

Email Id: service@humidin.com

COUNTRIES:

RIYADH:

Email Id: riyadh@humidin.com

EGYPT:

Email Id: egypt@humidin.com



HR Department

Phone: +91-7290065533

Email Id: hr@humidin.com

hrmanager@humidin.com

Finance Department

Phone: +91-9654452925

Email Id: accounts@humidin.com

The intention of this brochure is to introduce you to, and acquaint you with the capabilities of the HUMIDIN organization in the offered product areas. It will not answer all your immediate questions, and indeed, it will no doubt raise others. We welcome your interest in our products and shall be very pleased to provide further information.

GUARANTEES

HUMIDIN guarantees its products to be free of defects in materials and workmanship for a period of one year from the date of delivery from the factory, provided motors are properly installed with overload protector. Humidin agrees to repair or replace defective parts or part to be returned to the factory, all transportation charges prepaid. Humidin does not guarantee against abrasion, corrosion or erosion. Humidin shall not be held responsible for any charges in connection with the removal or replacement of alleged defective equipment nor for incidental consequential damages

A.C HUMIDIN AIR SYSTEMS PVT.LTD.

**Plot C18, Tronica City Industrial Area
Loni Dist. -201102**