



# **SALLERIA**

## **SOLUTIONS**



**AIR HANDLING UNITS**

**SINGLE STAGE EVAPORATIVE AIR COOLING**

**INDIRECT EVAPORATIVE COOLING UNIT (IDEC)**

**DESICCANT DEHUMIDIFIERS**

**DUCT EVAPORATIVE COOLERS**

# ABOUT US

We "Salleria Solutions LLP" a partnership firm started its operation in year 2018 with a strong base of experienced team of ISHRAE certified HVAC designers, engineers & dedicated Consulting peoples to manufacture excellent efficient & robust HVAC products and provide services to the Global world. Our Corporate office and manufacturing facilities are located at Greater Noida (U.P.) India. However our distributors and dealers are located over the pan India basis.

Our motto " **Excellence in HVAC Solutions**" ensures customer satisfaction as a priority. We cater a long range of products like Air handling units, Direct- Indirect Evaporative air-cooling systems, Desiccant dehumidifiers & Polymer sensible heat exchangers. Our team is well expertise in the commissioning and execution of projects like setting up of cleanrooms for Pharma, Electronic, FMCG industries, Construction of Modular OT, Microbiology labs, walk-in chambers & process automation.

Today, Salleria emerges as leading innovator and solution provider of complex and critical problem of Hvac system applications variably comes from industrial, commercial and research applications. Salleria is committed to delivering HVAC solutions that enhance the quality of life all around the world. We will always be dedicated to serve people worldwide by providing our optimal products & cutting edge technology solutions.

## AREAS OF EXPERTISE

- Building Comfort Systems
- Dehumidification
- Air Ventilation Systems
- Energy Recovery Solutions
- Temperature and Humidity Control
- Process Cooling & Heating
- Retrofitting, Reconditioning & Repair



## WHY CHOOSE US

Salleria solutions provide complete 18 months warranty for our entire product range and our dedicated team of service engineers located all over the India to provide after sales support during the complete lifecycle of the product.



# AIR HANDLING UNITS

An Air Handling Unit (AHU) is used to re-condition and circulate air as part of a heating, ventilating and air-conditioning system. The basic function of the AHU is to take in outside air, re-condition it and supply it as fresh air to a building.

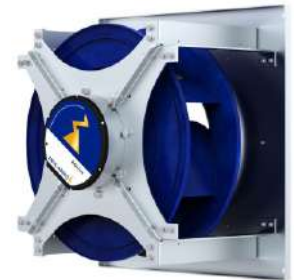
- ❖ Chilled water coil AHU
- ❖ Direct expansion coil Dx AHU
- ❖ Dehumidifier air handling units
- ❖ Hybrid air handling units
- ❖ Fresh air handling units
- ❖ Modular air handling units

Technical Specifications	
Casing Type	Double skin PUFF
Panel Thickness	23,45,80 mm
Casing Profile	Thermal Break Al Profile
Capacity (CFM)	800- 50000 CFM
Fan type	DIDW, Plug, EC
Static Range	High, Medium & Low Static Units
Cooling Coils	4,6, 8, 10 DX & chilled
Heating coils	2,4 RD Coil /heaters
Filters	Pre +Fine+ Hepa*(0.3,5,10,20 microns)
Special filtration	Carbon Filter +ESP+ UV GI*
Instrumental Controls	VFD drive, BMS , PLC, HMI connectivity
Electrical Control	Dedicated or Inbuilt
Remote Controller	Wired LCD Remote Controller
Filtration Level	7 Stage Multi Air Filtration
Mountings	Ceiling Suspended, Floor Mounted
Air Flow	Side, Top, Down, Custom discharge
Power Supply	3 Phase, 415 V, 50 Hz

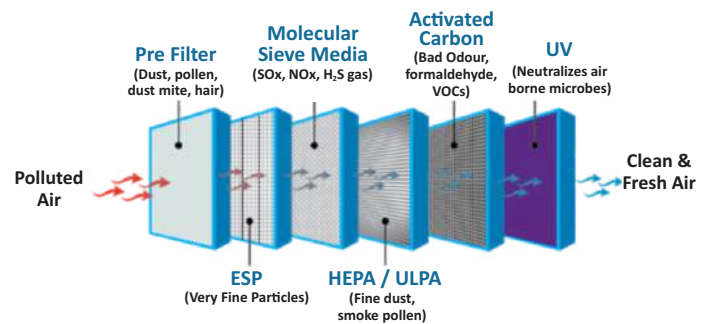
PLUG FANS



EC FANS



## ENERGY EFFICIENT DIRECT DRIVEN FANS



## ADVANCED MULTILAYER FILTRATION OR BETTER IAQ

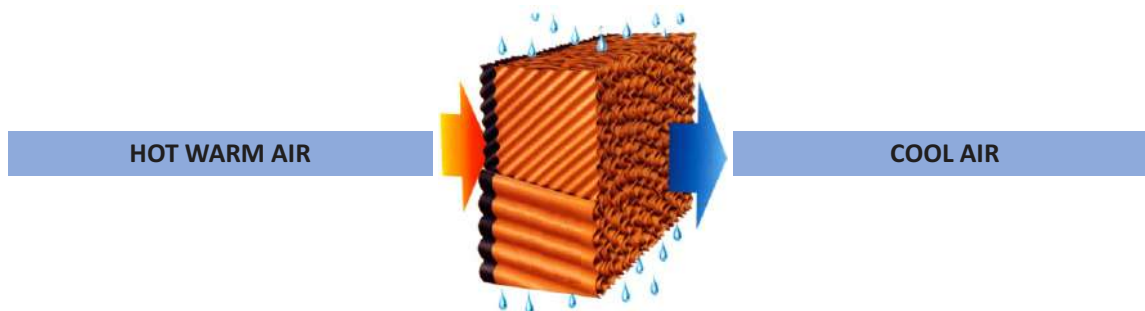




# AIR WASHERS (SINGLE STAGE DIRECT EVAPORATIVE COOLING SYSTEM)

Single stage air washer or evaporative cooling system is the most popular and one of oldest means of air-cooling arrangement that cools the areas at significantly lower energy demand, lower initial cost and low maintenance. In single stage air cooling system, the air is directly flowed through the water sprayed evaporative cooling media and then it forwards with the help of suction of centrifugal blowers.

Salleria's Air Washer System has Double Skin Thermal Break Aluminium Profile (PUF) Casing ensures minimum leakage of air hence pressure drop inside the casing is negligible that provides efficient and better cooling to the premises.



Evaporative cooling solutions is suitable for numerous applications. These solutions include Direct Evaporative Coolers, where water is evaporated into the air stream via an engineered pad Celdek, to provide adiabatic cooling.

## SALLERIA DUCT EVAPORATIVE COOLERS

Duct Evaporative coolers are always first choice for the consumer because of their lower capital, lesser energy consumption, easy installation and less maintenance overheads. Salleria Duct Coolers provides maximum contact between celdek pad and outer air hence provides better cooling results. Salleria has a wide range of three-sided honeycomb pad direct evaporative coolers modules.

Technical Specifications												
Model	Air Flow		Dimensions (mm)			Static Pr. (mmWg)	Motor Rating		Air Outlet		Water tank (Litres)	Weight (KG.)
	CMH	CFM	L	W	H		kw	hp	L	W		
SEC-5000	8500	5000	1150	1200	1250	25	1.5	2	617	538	207	250
SEC-7500	12750	7500	1450	1500	1370	25	2.2	3	688	688	320	380
SEC-10000	17000	10000	1550	1650	1850	35	3.7	5	815	815	383	475
SEC-15000	25500	15000	1775	2175	1625	35	5.5	7.5	850	850	546	620
SEC-20000	34000	20000	1975	2200	1970	35	7.5	10	1107	1107	648	780

\* CMH Cubic Meters per Hours or CFM-Cubic Feet Per Minute (CFM) is a measurement of airflow volume, determined by How much volume of air pass by a stationary point per hour or min.

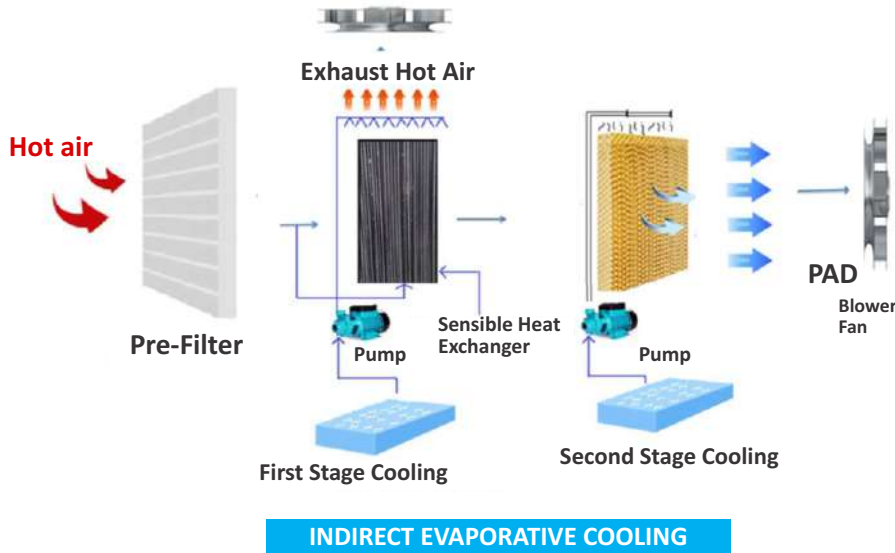
\* Above Dimensions shall be subjected to change with prior notice or customization shall be demanded by the client.

\* All duct cooler will be suitable for 3 Phase 415 V 50Hz power supply.



# SALLERIA-IDEC (INDIRECT EVAPORATIVE COOLING SYSTEM)

Salleria Indirect evaporative cooling system or two stage air cooling system in which air is pre-cooled by indigenously developed high efficiency engineered polymer type sensible heat exchanger then in secondary stage air is further cooled by celdek honeycomb pads this result better cooling results along with lesser power and water consumption as compare two single stage air cooling solutions.



Technical Specifications											
Model	Air Flow		Dimensions (mm)			Static Pr. (mmWg)	Supply Air Fans		Scavenging Air Fans		Weight (KG.)
	CMH	CFM	L	W	H		Kw	No. of Fans	Kw	No. of Fans	
IDEC-8000	13600	8000	2600	1340	2100+640*	65	3.7	1	0.75	1	650
IDEC-12000	20400	12000	2750	1980	2100+640*	65	5.5	1	1.1	2	760
IDEC-16000	27200	16000	2900	2650	2100+640*	65	7.5	1	1.5	2	1300
IDEC-20000	24000	20000	3055	3390	2100+640*	65	11	1	2.2	2	1950
IDEC-24000	40800	24000	3234	2620	2700+640*	65	11	1	2.2	2	2600
IDEC-28000	47600	28000	3234	2620	2990+640*	65	15	1	3.0	2	2280
IDEC-32000	54400	32000	3541	3500	2700+640*	65	15	1	3.3	3	3250
IDEC-36000	61200	36000	2900	3940	2700+640*	65	11X2	2	4.5	3	3900
IDEC-40000	68000	40000	2900	4580	2700+640*	65	11X2	2	4.5	3	4200

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\* Scavenging air flow fan 640 mm extra height shall be provided.

## ADVANTAGE OF DOUBLE STAGE AIR COOLING

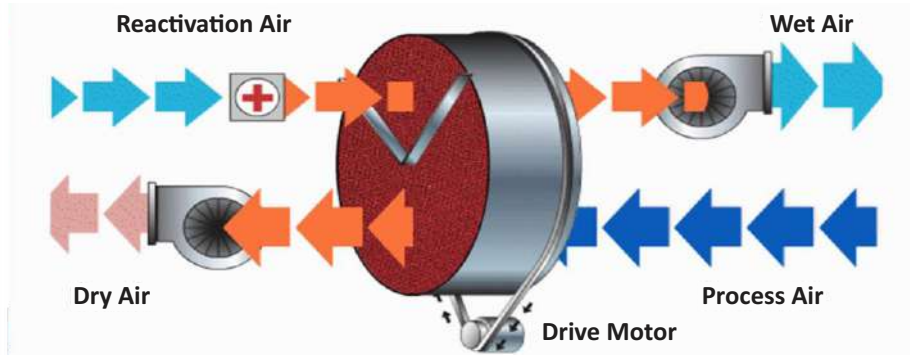
- Reduction in input power and input current.
- Elimination of CFC gases which are harmful to ozone layer.
- Ability to induce fresh air into the room.
- Operating cost is low.
- Blow through and draw through both design.
- EC Direct driven and Plug Fan integration.
- Using water as the working fluid which environmentally friendly.



# DESICCANT DEHUMIDIFIERS

desiccant dehumidifiers remove moisture from the air by using a desiccant; a material which easily attracts and holds water vapor. Desiccant dehumidifiers are especially well-suited for removing moisture from air at a low temperature and low humidity level. At the heart of these dehumidifiers is a desiccant wheel made up of corrugated material. Air passes through the flutes of the material, contacting the desiccant. The incoming process air stream gives off its moisture to the desiccant. The process air is dry as it leaves the wheel. The humidity-laden wheel rotates slowly into a second, smaller airstream which has been heated.

This smaller exhaust airstream, known as reactivation air, warms the desiccant. The warmed desiccant gives off its moisture which is then carried away by the reactivation air. The newly dried desiccant material is rotated back into the process air, where it absorbs moisture once again



## Corrosion Protection

Military Storage  
Electronics Protection  
Power Plant Layout  
Lithium Battery Production

## Condensation Protection

Ice Rinks  
Water Treatment Plants  
Surface Preparation & Coating  
Injection Molding

## Mold/Fungus Prevention

Archival Storage  
Seed Storage Cargo Protection  
Breweries

## Moisture Regain Prevention

Candy Packaging  
Clean Rooms Safety  
Glass Laminating  
Composite Manufacturing

## Product Drying

Investment Castings  
Plastic Resin Drying  
Candy Coating  
Fish Drying

## Dry Cooling

Supermarkets  
Hotels & Motels  
Sick Buildings  
Advanced HVAC Systems

## Technical Specifications

Model	Process Air Flow		Dimensions (mm)*			ESP. (mmW/g)	Motor Rating		Rct. Air Flow CFM	Heating Element (Kw)	Weight (KG.)
	CMH	CFM	L	W	H		Pr.	Rct.			
SDH-300	510	300	800	800	800	20	0.37	0.18	100	4.5	100
SDH-500	850	500	1000	800	800	20	0.75	0.37	170	7.5	135
SDH-800	1360	800	1200	1000	1000	25	1.1	0.37	270	12	160
SDH-1000	1700	1000	1200	1000	1000	25	1.5	0.37	335	15	200
SDH-1200	2040	1200	1500	1100	1100	25	1.5	0.56	400	18	235
SDH-1500	2550	1500	1800	1200	1200	30	2.2	0.56	500	21	300
SDH-2000	3400	2000	2000	1200	1200	30	3.7	0.75	670	30	350

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IMPORTED DESICCANT WHEELS



ULTRA MODULAR COMPACT DESIGN



# ENVIRONMENT CHAMBERS

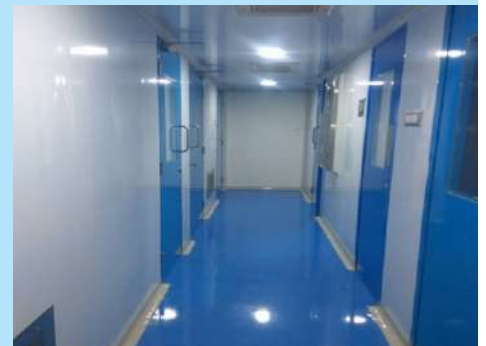
We Commissioned Walk-in psychrometric or environment chambers for developing artificial climate conditions these chambers are further used or various applications like Railways, Aerospace, Automobiles, OEM Testing and R&D purpose. Inside these chambers we control various environment parameters on demand by client like the temperature and Relative humidity generally via means of external or inbuilt systems.

Common Size of Walk-in Chambers-  
7 x 7 x 5 meters  
10 x 10 x 7 meters

Temperature Inside chamber Achieved  
-30 deg to +85 degrees  
Relative Humidity  
10 % to 95 %



## PROJECT GALLERY



# INDUSTRIAL SOLUTIONS



- Air Ventilation Systems
- Climate Control Systems
- Warehouse Cooling Solutions
- Basement Ventilation Systems
- Kitchen Ventilation Systems
- Commercial Cooling
- Hatchery Cooling Solutions
- Smoke or Fume Extraction Systems
- Tunnel Ventilation Systems
- Data centre Cooling
- GIS Substation Cooling
- Industrial Cooling solutions
- FMCG Cooling solutions



## CLIENTLE



# SALLERIA SOLUTIONS

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