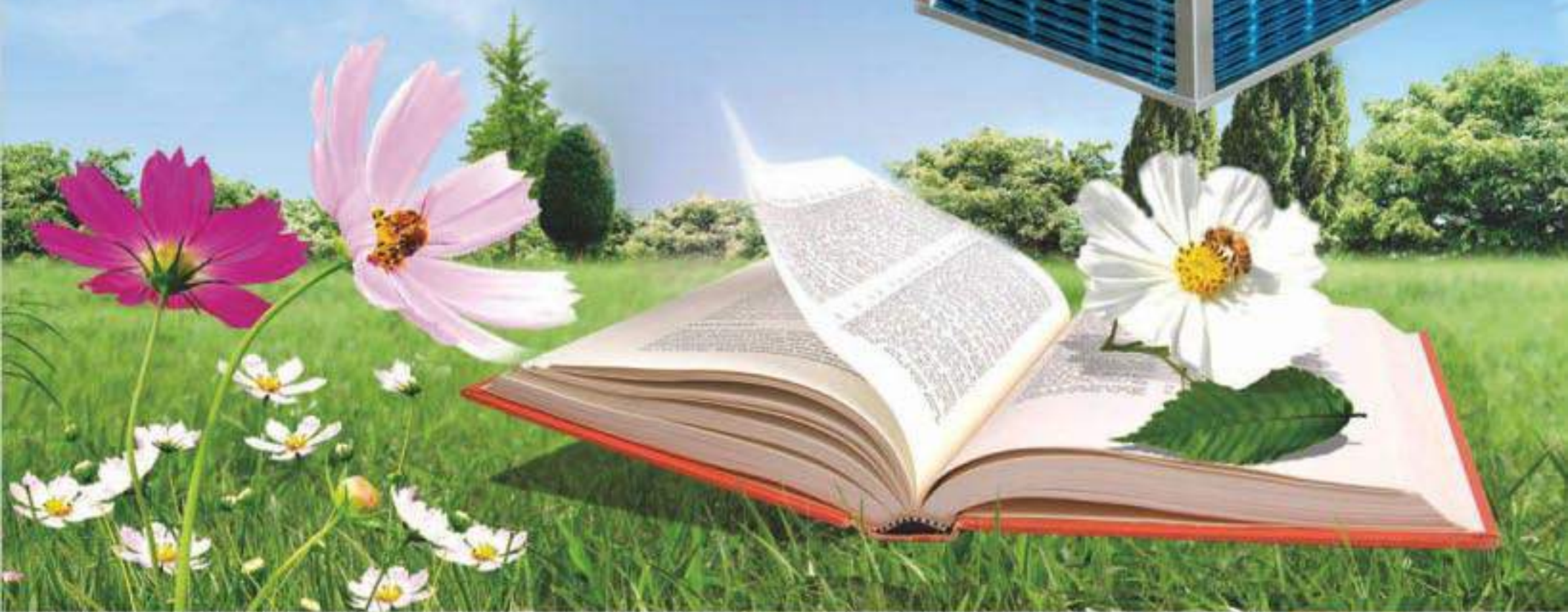
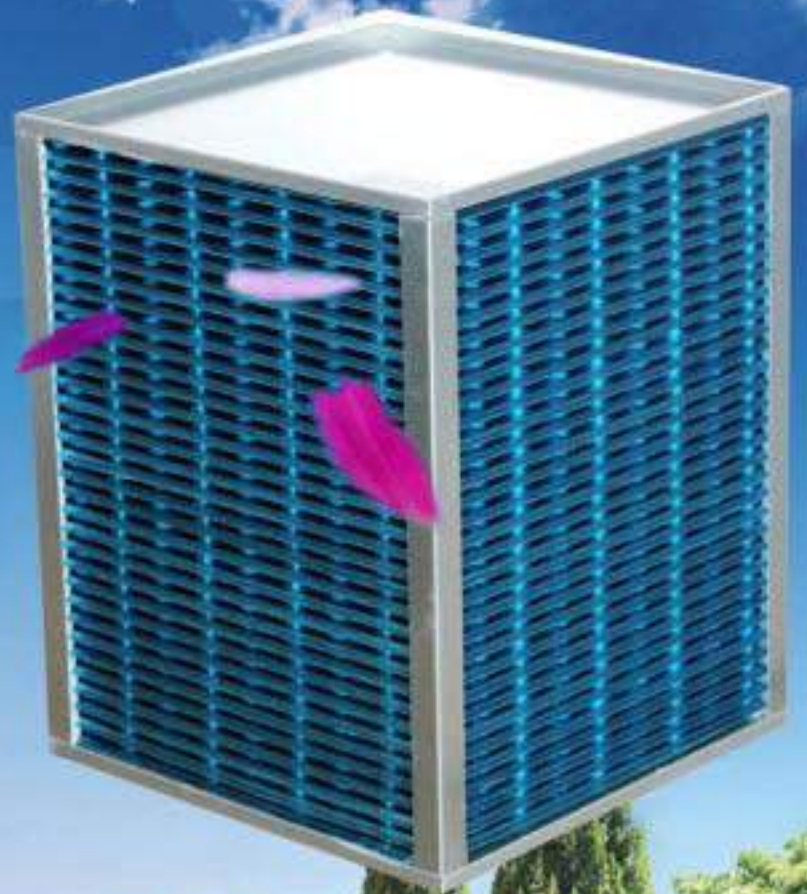




DEVATECH
ENGINEERS PRIVATE LIMITED

"Air Treatment & Ventilation Solution"

Devfresh
CROSS FLOW
HEAT EXCHANGER

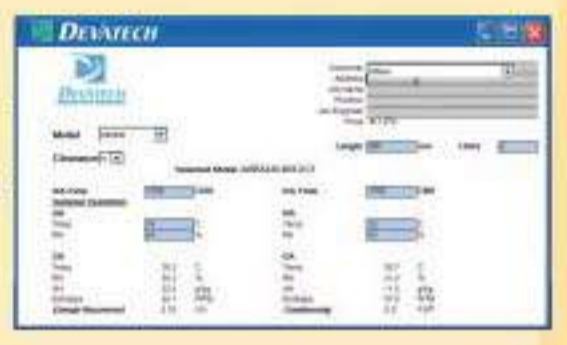


www.devatech.com



Selection

Board for selection need to take into account the efficiency / resistance, and the balance of the initial investment, generally face velocity control in the 1.5 to 5.0m / s. In order to correct the technical assessment, We provide the board for selection software DEXCal V1.0. If there is demand we can provide the DLL program for embedded into the selection procedures of the air-conditioned box.



Quality Assurance

Our lasting goal is to maintain the high quality of the products and the the enactment product performance parameters through laboratory tests derived. Product quality and performance through equipmentSophisticated laboratories to ensure.



All products of aluminum foil through the necessary checks and tests. Products in the production process and the end of stage After repeated tests, the physical properties of materials to obtain sustained Monitoring.

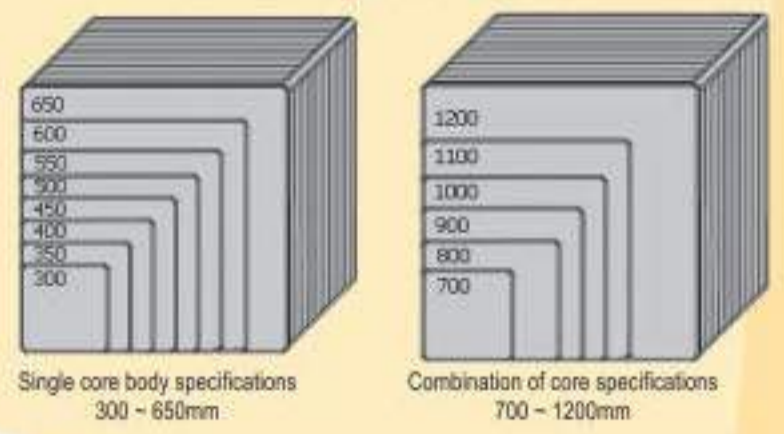
Reliability and performance

Plate heat exchanger is a gas-gas heat recovery products, the product itself without any moving parts, thereby improving the reliability of the product; another heat directly from the side of the high-temperature gas flow Transmitted to the side of the low temperature airflow; heat exchanger is a cross-flow design, efficiency is typically between 40-75%.

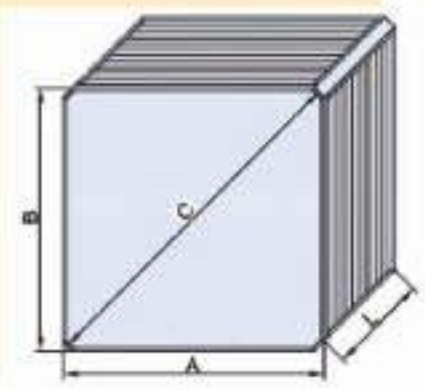
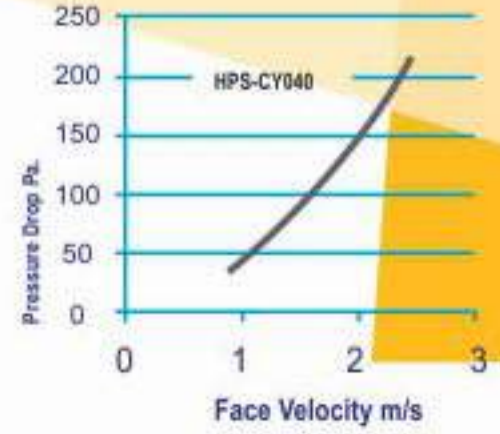
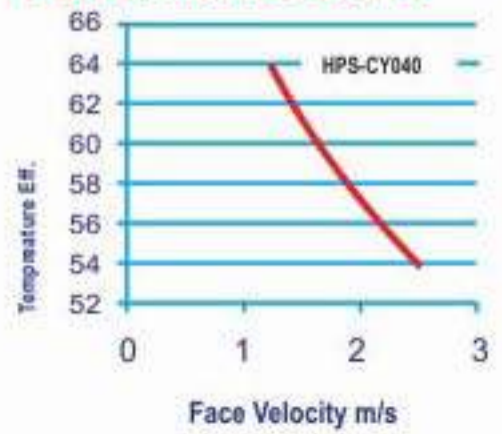
Plate spacing

Model / plate spacing	4 mm	5 mm	6 mm	8 mm
DEXA-30	X	X	X	
DEXA-35	X	X	X	X
DEXA-40	X	X	X	X
DEXA-45	X	X	X	X
DEXA-50	X	X	X	X
DEXA-55	X	X	X	X
DEXA-60		X	X	X
DEXA-6		X	X	X
DEXA-70			X	X
DEXA-80			X	X
DEXA-90				X
DEXA-100				X
DEXA-110				X
DEXA-120				X

Model Specification



Performance chart



Special Applications

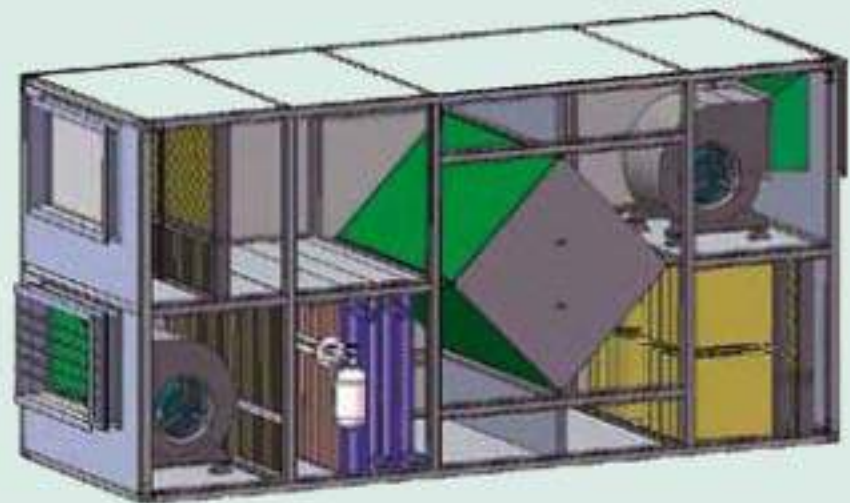
In the direction of the air flow is not the most important. Condensing the inevitable happens, we recommend that the exhaust direction from the top down.



Some applications use a single core body. But for some special cases, we may use more than one core to meet the inconvenience in applications such as: space constraints, both sides. The air flow volume difference is too large and so on. An example is shown below:

Installed in air handling unit

DEVATECH plate heat exchanger can be used in the air handling unit (AHU) as a main part of the heat recovery section, and the bypass can be built in when required.



DEVATECH
ENGINEERS PRIVATE LIMITED

Certified by:- **NSIC - CRISIL SE 3C**



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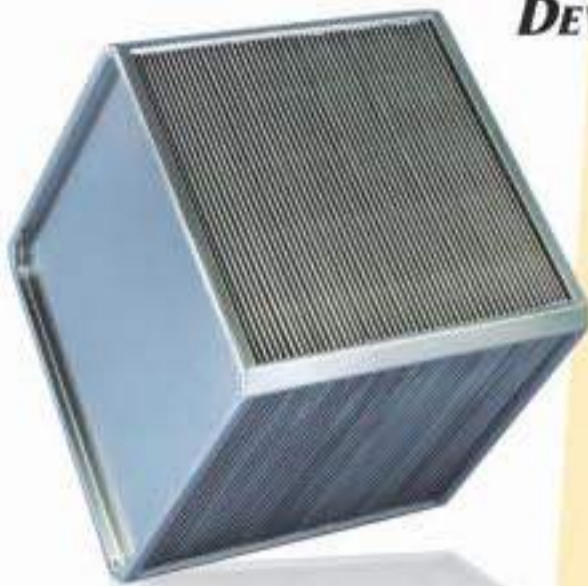
A Group Company of Devatech Desiccant Rotors International, www.ddrirotors.com



DEVATECH is dedicated to the research and technology development in the field of indoor air quality. It is the leading company in India who professionally produces heat recovery ventilation system.

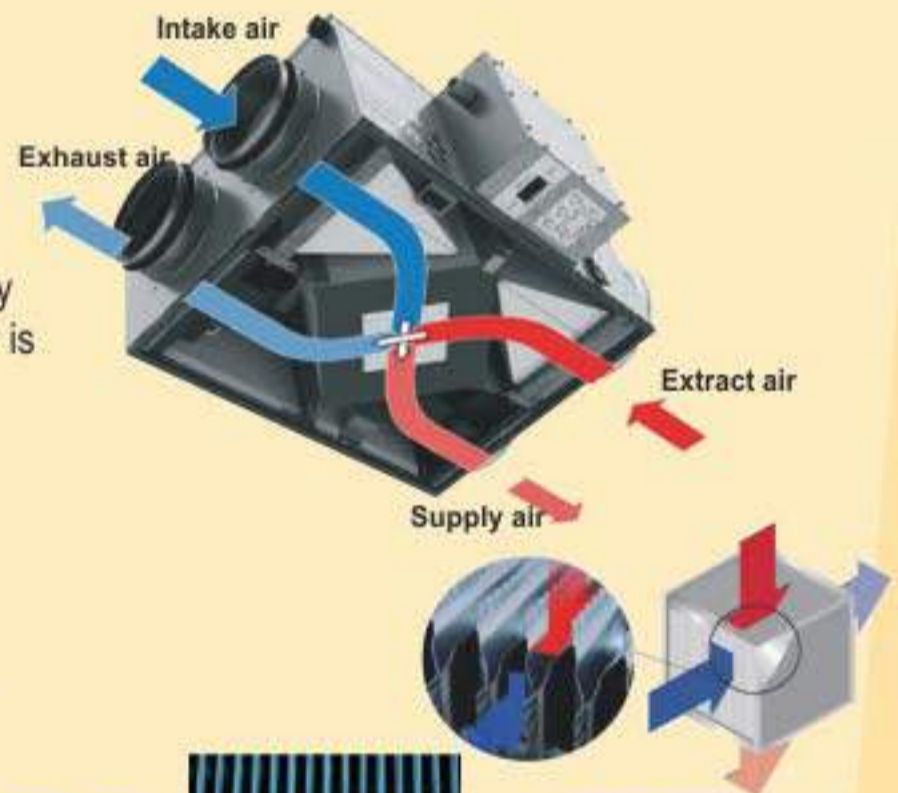
Devatech developed its own key components like plate and Rotary heat exchangers for various heat & energy recovery systems.

Devatech is trusted by the users for its advanced technology, superb product quality and all-around services. Let's join together to contribute to our commitment of energy saving and pollution reduction.



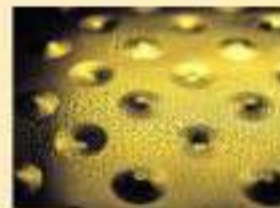
Working principle

Two neighbor aluminum foils form a channel for fresh or exhaust air stream. Heat is transferred when the air streams flow crossly through the channels, and fresh air and exhaust air is totally separated.

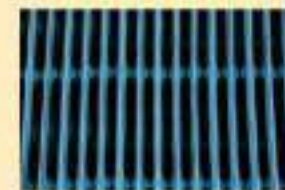


Main features

- Only sensible heat exchange
- New / exhaust airflow is completely cut off to avoid any cross-contamination
- heat recovery efficiency up to 70%
- stamping molded on both sides
- secondary folding
- joints completely sealed
- Withstand Level 1500Pa
- standard hydrophilic aluminum foil coating



The corrugated structure of the patent



Unique folding technology



Completely sealed joints

Material

The plate heat exchangers are usually made of aluminum foil, aluminum foil with anti-corrosion / Easy manufacturing / non-flammable / use persistent characteristics. In some special occasions if corrosive gas field is together, the surface of the aluminum foil can be provided by an anti-corrosion material coated.

Condensation

The plate heat exchanger does not allow water vapor from the side stream is passed to the other gas flow side, but can be part of the wet exhaust. The latent heat transfer to the other side; especially when the outdoor temperature is very low, this phenomenon is most likely to occur. Therefore, when the new wind the wet exhaust gas cooled to below its dew point, condensation occurs.

