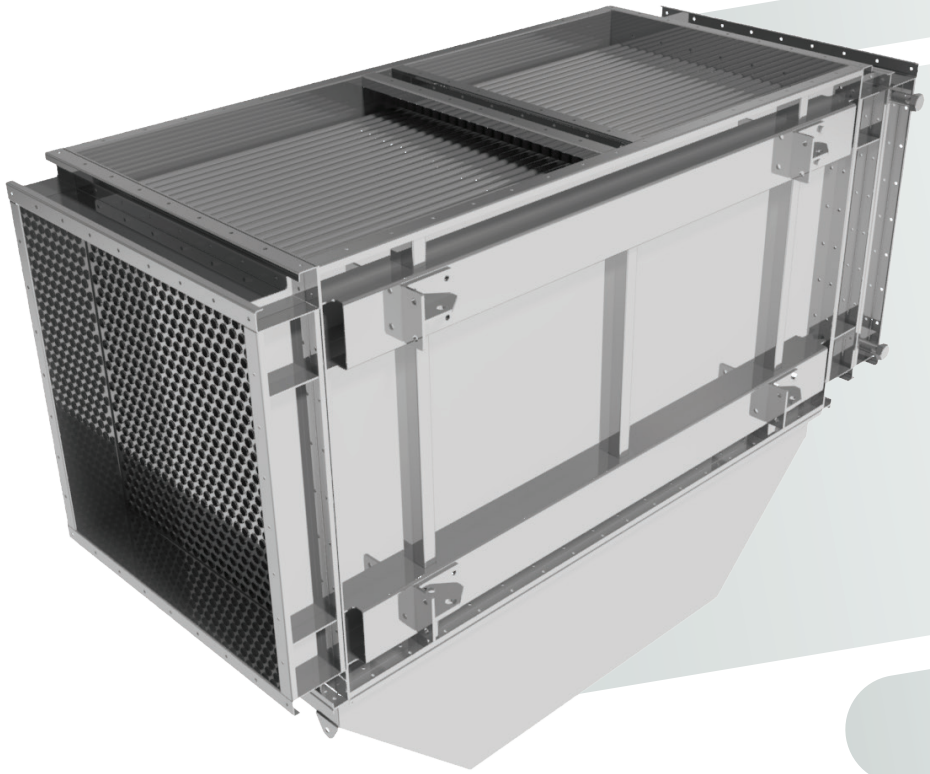
SMOOTH TUBE
HEAT EXCHANGER

AIR PRE-HEATER

DAV · Airy



About Airy Family

DESCRIPTION

Cross Flow Tube Heat Exchangers [CFTHE] are designed for systems that require heat transfer between two air streams without them being mixed.

Compared to cross flow plate heat exchangers, in the CFTHE, heat energy is exchanged via thin smooth tubes, usually made of stainless steel of various diameters and thicknesses according to the required performance.

In the DAV AIRY the tubes are coupled to tube-sheet by mechanical expansion, which guarantee a seal level up to 99% and are easy to clean, either manually or by automatic systems.

Therefore, DAV AIRY is the ideal and cost-effective solution for preheating fresh air by recovering thermal energy from exhausted air with a high fouling factor. Typical applications are paper mills, industrial kitchens, foundries, suction of welding fumes, etc.

By varying the pipes length and the number of passages across pipes, it is possible to achieve an efficiency level up to 80%.

ADVANTAGES

- **To recover energy** from exhausted dirty air
- **Automatic cleaning** systems
- **Corrosion resistant** materials
- **High** efficiency
- **Modular** design
- **Food grade** materials
- **Low maintenance** cost

DAVCOIL
HEAT EXCHANGER

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SMOOTH TUBE HEAT EXCHANGERS

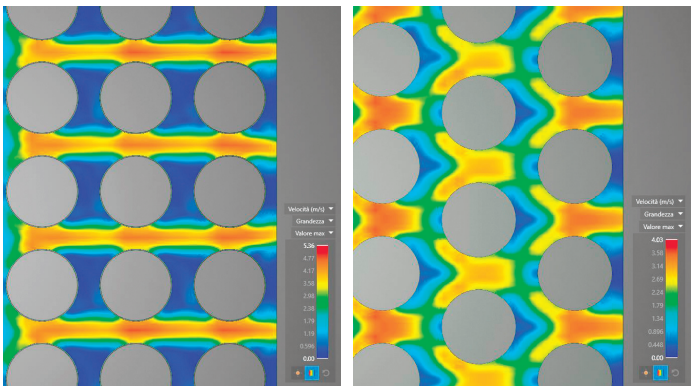
DAV·Airy

AIR PRE-HEATER

Efficiency

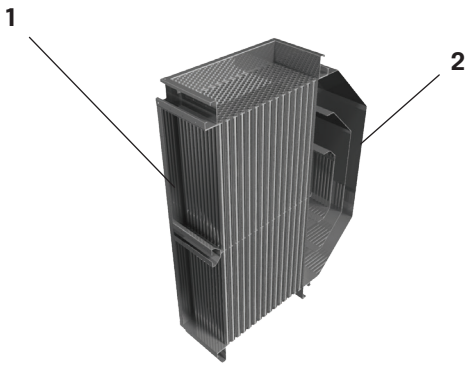
INCREASES THE EFFICIENCY OF THE SYSTEM

Modularity



Square geometry

Triangular geometry



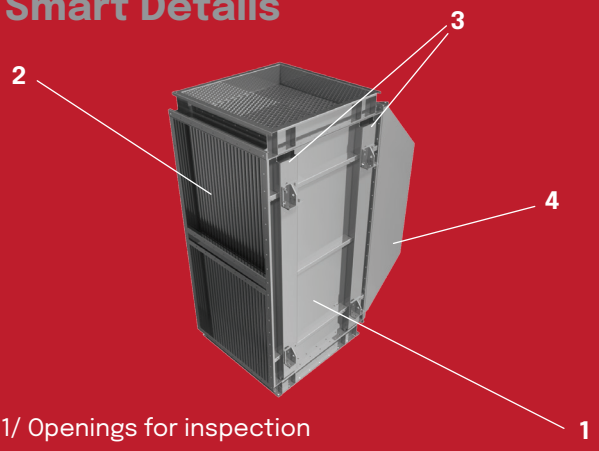
1/ DAV AIRY
2/ Reverse chamber

Materials

Carbon steel
Pre Galvanized Steel
Inox Aisi 304
Inox Aisi 316L
Inox Aisi 316Ti
Inox Aisi 321
Inox Aisi 309
Copper
Titanum
Aluminum
Nichel Alloy

*other options available on request

Smart Details



1/ Openings for inspection
2/ Exchanger
3/ Support structure
4/ Reverse chamber

Applications

- Power
- Food & Beverages
- Farming & Greenhouse
- Chemical
- Heavy Industries
- Refrigeration
- Depuration
- Dryer
- Offshore plants

DAVCOIL HEAT EXCHANGER

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