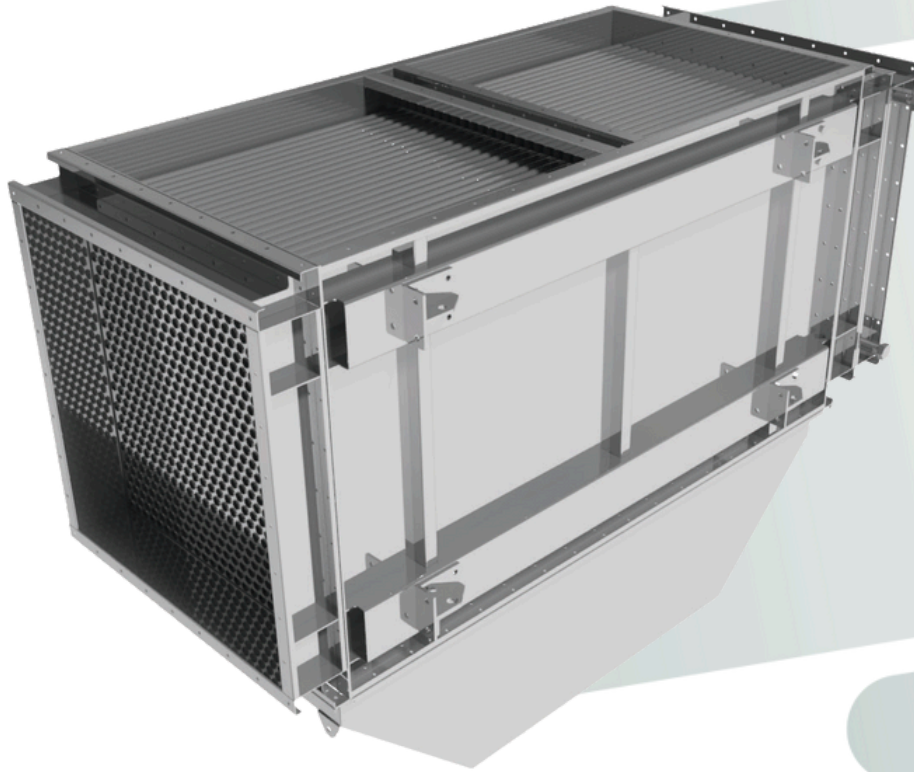


SMOOTH TUBE
HEAT EXCHANGER

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

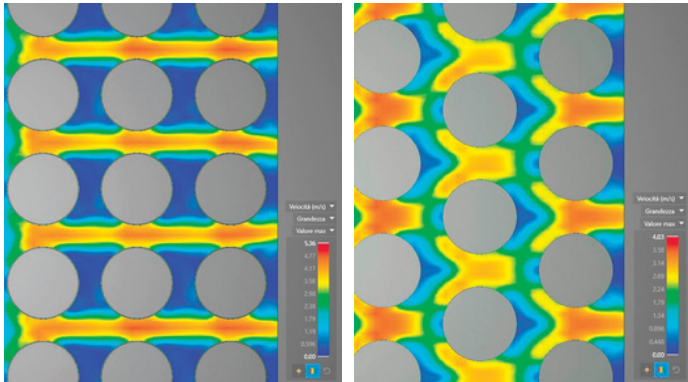
Low maintenance cost





Geometries

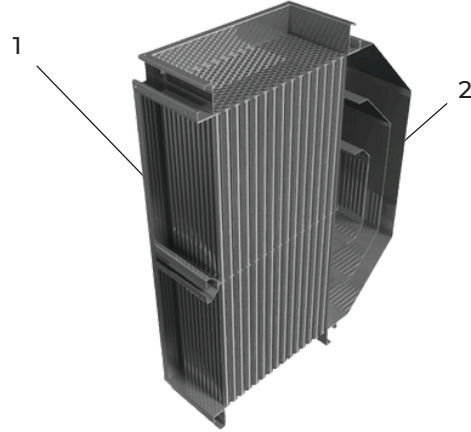
The right arrangement for every needing



■ Square pitch for an easier cleaning

■ Triangular pitch for the best capacity/dimension ratio

Modularity



1/ DAV AIRY

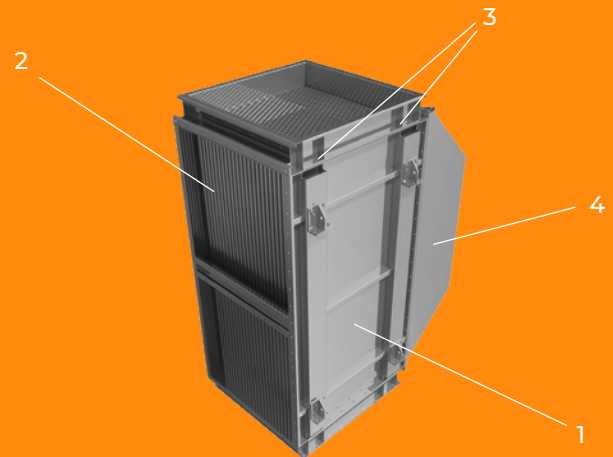
2/ Inversion duct (on multiple cross-flow models)

Materials

*other options available on request

- Carbon Steel
- Pre Galvanized Steel
- St. steel AISI 304
- St. steel AISI 316L
- St. steel AISI 316Ti
- St. steel AISI 321
- St. steel AISI 309
- Copper
- Titanium
- Alluminum
- Nickel Alloy

Smart Details



- 1/ Inspection flanges
- 2/ Heat Exchanger
- 3/ Support structure
- 4/ Inversion duct

Applications



Power



Food & Beverage



Farming & Greenhouse



Chemical



Heavy Industries



Refrigeration



Depuration



Dryer



Offshore plants

