INDUSTRIAL KITCHEN VENTILATION

HIGHLY EFFICIENCY SEPARATORS BY ATREA

for cooker hoods and ventilated ceilings

re.a

AEROSOL SEPARATORS BY ATREA

Our primary aims always include high quality, efficiency and maximum benefits for our customers. Our kitchen aerosol separators are no different as they are among top European products in their categories.

ATREA's range has two types of separators:

1. **The louvre-type separator** is featured regularly in our cooked hoods and ventilated ceilings. Although it was launched several years ago, it subsequently complied without any trouble with the strictest requirements of the kitchen ventilation standard (EN 16282).

2. The cyclone-type separator with truly cutting-edge parameters is a new product in our range. Its high efficiency and innovative design make sure even the smallest aerosol particles in the air are separated while it clogging with separated aerosols is reduced to a minimum.

Both separator ranges underwent stringent testing at DMT, one of the top laboratories in Europe. They passed both the flame test and the arrestance test. This means compliance with the most stringent standards (VDI 2052, EN1 6282, DIN 18869-5 etc.) applied to kitchens. In practice, higher efficiency leads particularly to the increased cleanliness of air ducts and reduced intervals of frequency of replacing filters upstream of the exhaust fan or inside the AHU.

The operator and owner of Q-Burger Bar shared his practical experience:

"We used to have wire mesh filters. Because of the business we specialize in - we're a fast-food place making burgers and chips - they were totally inadequate. We had to clean up every day, the ductwork would get clogged with grease and we had to replace the fabric filter upstream of the motor once a week. Now with ATREA's cyclone separators we only have to clean them once a week, the air ducts don't get clogged and filters need replacing only once a month."





Selection software

For the detailed design of ventilated ceilings, cooker hoods, accessories and control systems we recommend our specialized selection software.

You will find it on our website www.atrea.com

AEROSOL SEPARATORS BY ATREA



LOUVRE-TYPE SEPARATOR EFFICIENCY







AEROSOL SEPARATORS BY ATREA



CYCLONE-TYPE SEPARATOR EFFICIENCY



400×400 CYCLONE-TYPE SEPARATOR PRESSURE DROP pressure drop [Pa] air flow rate [m³/h]

500×175 CYCLONE-TYPE SEPARATOR PRESSURE DROP



AEROSOL SEPARATORS BY ATREA

DIMENSIONS AND SIZING

Dimensional drawing of 400×400 mm separators





500×175 mm separators for ventilation ceilings = recommended air flow rate 250 m³/h / 1 piece.

COMPARISON OF SEPARATOR EFFICIENCY



