

## AHUs made of plastic



highly efficient  
corrosion-resistant  
ErP compliant



Central AHUs for aggressive gases



- ✓ corrosion protection
- ✓ sound insulation
- ✓ cost reduction
- ✓ environmental protection
- ✓ failure safety
- ✓ explosion protection



Central air handling units from HLU are manufactured from plastic and are designed for aggressive gases with volume flows of between 3,000 m<sup>3</sup>/h and 100,000 m<sup>3</sup>/h. The high density and correct choice of materials guarantee a high level of safety and durability even under the toughest operating conditions.

Operating costs are kept low as a result of highly efficient energy recovery, minimal maintenance and servicing times and a high level of failure safety. Consistently not using coated metal components in the air flow avoids the problem of hidden corrosion.

As well as solid design and production, we also provide you with a comprehensive warranty and servicing.

The units meet the requirements of the Ecodesign Directive of 2018 and are tested to EN 1886 by TÜV.



## Advantages

- space-saving
- energy-saving
- cost-saving
- long-lasting, durable construction
- contribution to environmental protection
- easy maintenance

## Applications

The fields of application for air handling units (AHUs) made of plastic are common and safety exhaust air from laboratory buildings, universities and research institutes as well as broad sections of the chemical industry, electroplating plants and the food industry. The units can be customised to suit your individual needs from a multitude of different designs.

## Features

- modular, gas-tight welded units
- smooth surfaces, no joints or edges, no joints requiring maintenance
- permanently resistant to corrosion by acids, alkaline solutions and other aggressive media
- valves, doors and ducts completely sealed
- perfectly compatible components
- very low air resistance
- monitoring of safety-related functions by extensive sensor system
- rapid assembly with clamping profiles
- internal or external installation
- may be wet cleaned with water jet/cleaning solution
- explosion protection in accordance with ATEX

**Central AHUs with energy recovery –  
an investment in the future which will earn you  
money in the long-term!**



- Reduction in costs for heating and cooling
- Saves running costs
- Lower investment costs for linked units
- Minimal maintenance costs
- Maximum useful life



Additional options:

adiabatic cooling



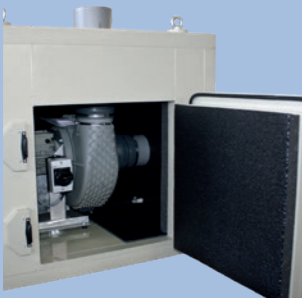
evaporation humidifiers

exhaust air purification



air scrubber

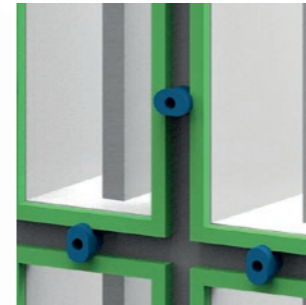
sound insulation



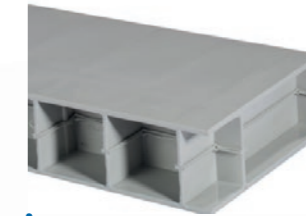
enclosed fan



- easy maintenance due to corrosion-resistant chamber lighting



- filter wall with rotary tensioners for rapid filter changes, no bypass leaks



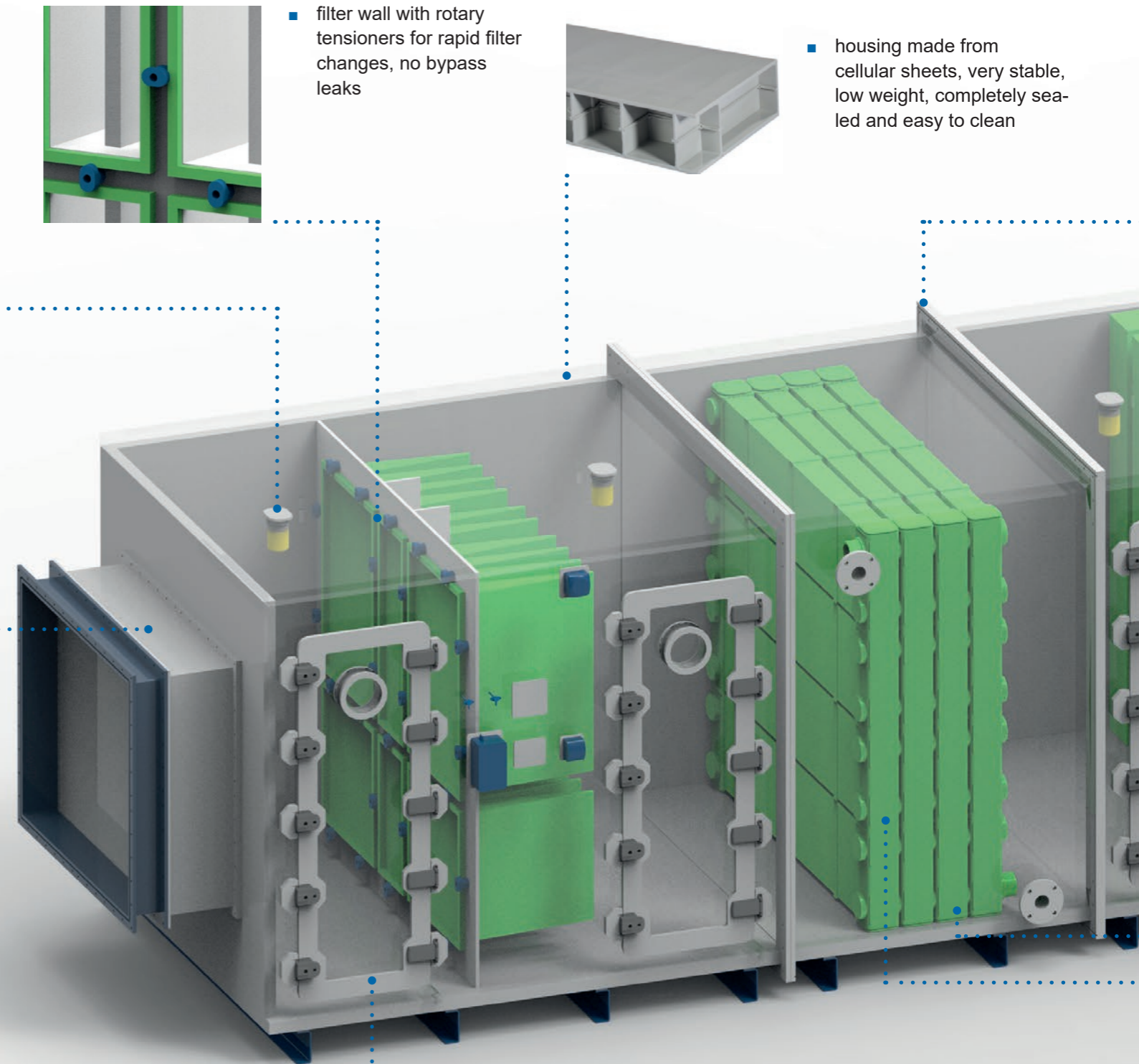
- housing made from cellular sheets, very stable, low weight, completely sealed and easy to clean



- secure shut-off due to airtight louvre



- easy access to all functioning parts





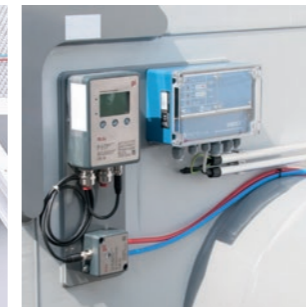
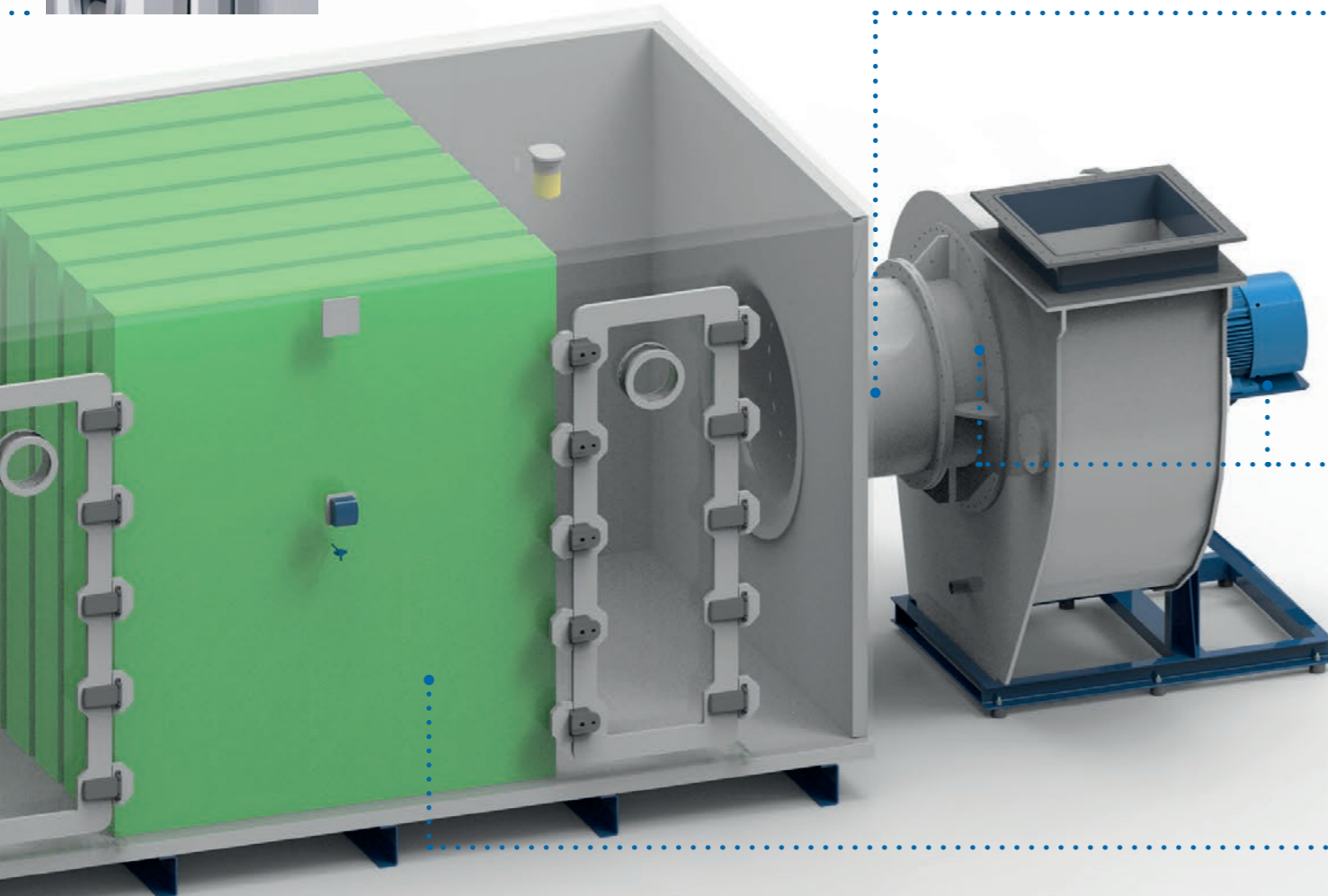
# Central AHU



- clamping profiles for rapid assembly in confined spaces

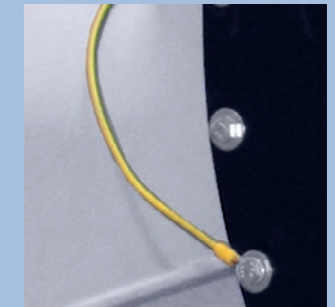


- optimum fan inflow due to inlet nozzle and flow straightener



- high level of failure safety due to vibration monitoring as well as measurement and control of the air flow

Additional options:  
explosion protection



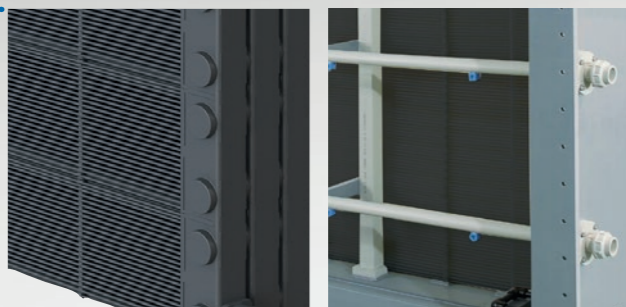
electrically conductive plastic



safety guard



ATEX lighting



- plastic heat exchanger, ErP compliant
- heat recovery system cleaning without switching off



- condensation tray welded tight



- splitter sound attenuators suitable for humid exhaust air and cleaning with water jet



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