



Exhaust air purification

CRHE

Cross-flow exhaust air scrubber
made of plastic

Setting the standard for clean air. Worldwide.



The Colasit CRHE cross-flow exhaust air scrubber with a horizontal design cleans process exhaust air that is highly contaminated with acidic and alkaline impurities up to a volume flow of 70000 m³/h. Special versions with higher air performance are available on request.

Utilisation

Cleaning highly-contaminated process air with acidic or alkaline contamination.

For use in:

- Food industry
- Pharmaceutical, chemical or biochemical industry
- Semiconductor, solar power, and surface technology
- Sewage and waste management systems
- Composting
- Drying processes

Characteristics

Volume flow

min. 1500 m³/h to max. 70000 m³/h

Operating pressure

+/- 1500 Pa (special models for higher pressures available)

Efficiency (tot. mech.)

max. 99.0%

Operating temperature

max. 40°C (special models for higher temperatures available)

Operating principle

The exhaust air is cleaned by absorbing the pollutants from the gas phase into the water phase. The air flow is channelled horizontally through the random packing. The scrubber pump continuously sprays scrubbing liquid from the container above the random packing.

Design

Custom-designed to your specifications

Construction

This product is made of the following corrosion-resistant plastics: **PP, PPs, PE, PVC, PVDF, GFRP**. Packing ensures sufficient surface area between the gas and liquid particles. Entrained liquid droplets are separated by the droplet separator.

Ex protection

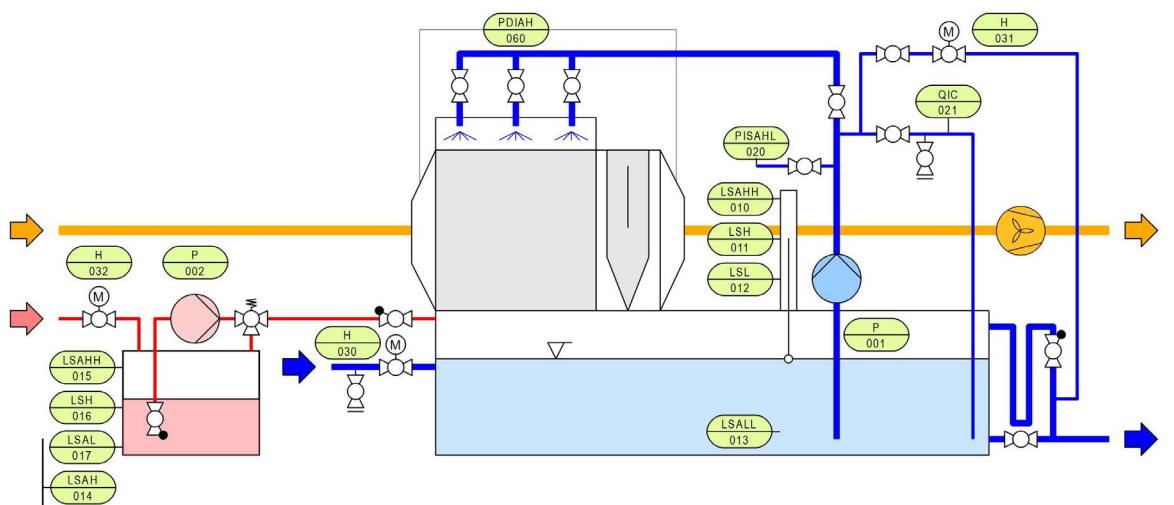
- Available in ATEX model for **Zone 1/2** 

Accessories

- pH measurement, conductometry measurement
- Chemical dosing; dosing tank
- Automatic sludge removal from the washing fluid
- Design for outdoor installation, screw-in heater heater
- Inclined bottom
- Redundant scrubber pump
- Aerosol separator
- Alternative packaging material
- Splash guard
- Process control
- Containment basin

Energy recovery

The energy of the exhaust air and exhaust gas can be reused. The heat exchanger (KVS) can be integrated directly into the scrubber housing.

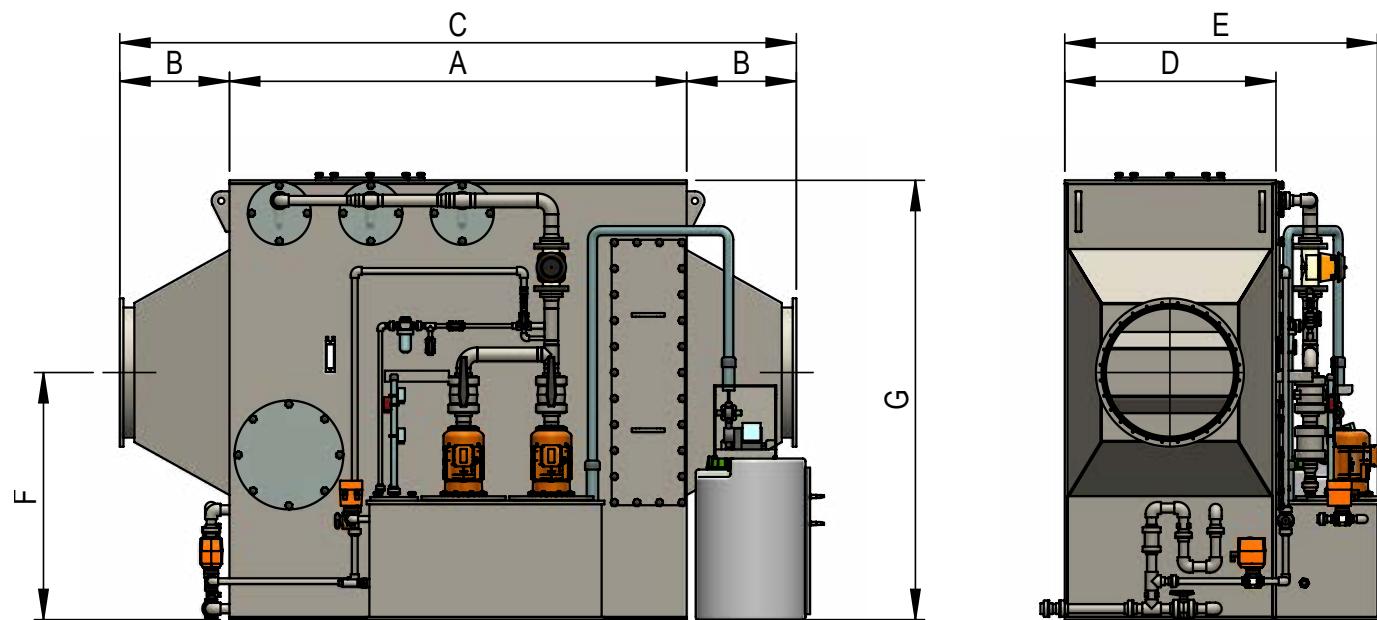


Exhaust air purification from Colasit

The exhaust air and exhaust gas from industrial applications, laboratories, and building technology can be hazardous to health and the environment. Colasit has been supporting you for many decades by supplying professional exhaust air purification systems to protect employees and the environment from harmful substances and odor emissions.

Key features

Colasit's exhaust air purification systems made of plastic are designed specifically for the processes they will be used in. Thanks to our wide range of exhaust air scrubbers in horizontal and vertical models, we can handle nearly any application.



The Colasit REYCLAIR exhaust air scrubbers CRHE are available in the following standard sizes:

| | A | B | C | D | E | F | G | Volume flow |
|------------------|---------|--------|---------|---------|---------|---------|---------|---------------------------------|
| CRHE 315 | 2000 mm | 500 mm | 3000 mm | 550 mm | 1150 mm | 900 mm | 1630 mm | 1500 – 2500 m ³ /h |
| CRHE 500 | 2000 mm | 500 mm | 3000 mm | 800 mm | 1300 mm | 1035 mm | 1900 mm | 3400 – 5600 m ³ /h |
| CRHE 630 | 2000 mm | 500 mm | 3000 mm | 1150 mm | 1750 mm | 1150 mm | 2050 mm | 6300 – 10400 m ³ /h |
| CRHE 710 | 2000 mm | 500 mm | 3000 mm | 1150 mm | 1750 mm | 1325 mm | 2400 mm | 8400 – 14000 m ³ /h |
| CRHE 900 | 2000 mm | 500 mm | 3000 mm | 1500 mm | 2200 mm | 1550 mm | 2400 mm | 11000 – 18300 m ³ /h |
| CRHE 1120 | 2000 mm | 700 mm | 3400 mm | 1500 mm | 2200 mm | 1550 mm | 2850 mm | 14600 – 24300 m ³ /h |
| CRHE 1250 | 2000 mm | 700 mm | 3400 mm | 1800 mm | 2600 mm | 1550 mm | 2850 mm | 17500 – 29200 m ³ /h |
| CRHE 1400 | 2000 mm | 700 mm | 3400 mm | 2200 mm | 3000 mm | 1750 mm | 3250 mm | 26200 – 43600 m ³ /h |
| CRHE 1600 | 2000 mm | 700 mm | 3400 mm | 2800 mm | 3600 mm | 2050 mm | 3850 mm | 42400 – 70600 m ³ /h |

| | A | B | C | D | E | F | G | Volume flow |
|-------------------|---------|--------|---------|---------|---------|---------|---------|---------------------------------|
| CRHE 315L | 2500 mm | 500 mm | 3500 mm | 550 mm | 1150 mm | 900 mm | 1630 mm | 1500 – 2500 m ³ /h |
| CRHE 500L | 2500 mm | 500 mm | 3500 mm | 800 mm | 1300 mm | 1035 mm | 1900 mm | 3400 – 5600 m ³ /h |
| CRHE 630L | 2500 mm | 500 mm | 3500 mm | 1150 mm | 1750 mm | 1150 mm | 2050 mm | 6300 – 10400 m ³ /h |
| CRHE 710L | 2500 mm | 500 mm | 3500 mm | 1150 mm | 1750 mm | 1325 mm | 2400 mm | 8400 – 14000 m ³ /h |
| CRHE 900L | 2500 mm | 500 mm | 3500 mm | 1500 mm | 2200 mm | 1550 mm | 2400 mm | 11000 – 18300 m ³ /h |
| CRHE 1120L | 2500 mm | 700 mm | 3900 mm | 1500 mm | 2200 mm | 1550 mm | 2850 mm | 14600 – 24300 m ³ /h |
| CRHE 1250L | 2500 mm | 700 mm | 3900 mm | 1800 mm | 2600 mm | 1550 mm | 2850 mm | 17500 – 29200 m ³ /h |
| CRHE 1400L | 2500 mm | 700 mm | 3900 mm | 2200 mm | 3000 mm | 1750 mm | 3250 mm | 26200 – 43600 m ³ /h |
| CRHE 1600L | 2500 mm | 700 mm | 3900 mm | 2800 mm | 3600 mm | 2050 mm | 3850 mm | 42400 – 70600 m ³ /h |

Worldwide

Colasit is a worldwide leading provider of chemically resistant fans, exhaust air purification systems, ventilation systems for corrosive and environmentally harmful exhaust air and gases as well as apparatus and processing systems for chemically aggressive liquid media.



Exhaust air purification systems made of plastic for treating environmentally hazardous exhaust air and gases



Plastic fans for efficient and safe conveying of corrosive exhaust air and gases



Ventilation systems made of plastic for efficient routing of corrosive exhaust air and gases



Processing systems, containers, vessels, and equipment for safe handling of chemically aggressive liquid media



Installation, repair, and replacement parts services



Consultation and engineering services in plastic construction for individual components to entire systems

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Competence in plastics. Worldwide.

