

Exhaust air purification

# CRHE

Cross-flow exhaust air  
scrubber made of plastic

Setting the standard for clean air. Worldwide.

**COLASIT**

The Colasit CRHE cross-flow exhaust air scrubber with a horizontal design cleans contamination from highly-contaminated process air up to a volume of 70000 m<sup>3</sup>/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 m<sup>3</sup>/h to max. 70000 m<sup>3</sup>/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

A scrubbing liquid is injected into the horizontal exhaust air flow in the circuit. Water-soluble impurities are scrubbed out through the addition of acids or alkalis. A collecting container gathers hazardous substances.


### 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. Separation of entrained liquid droplets is achieved by a droplet separator.

### Ex protection

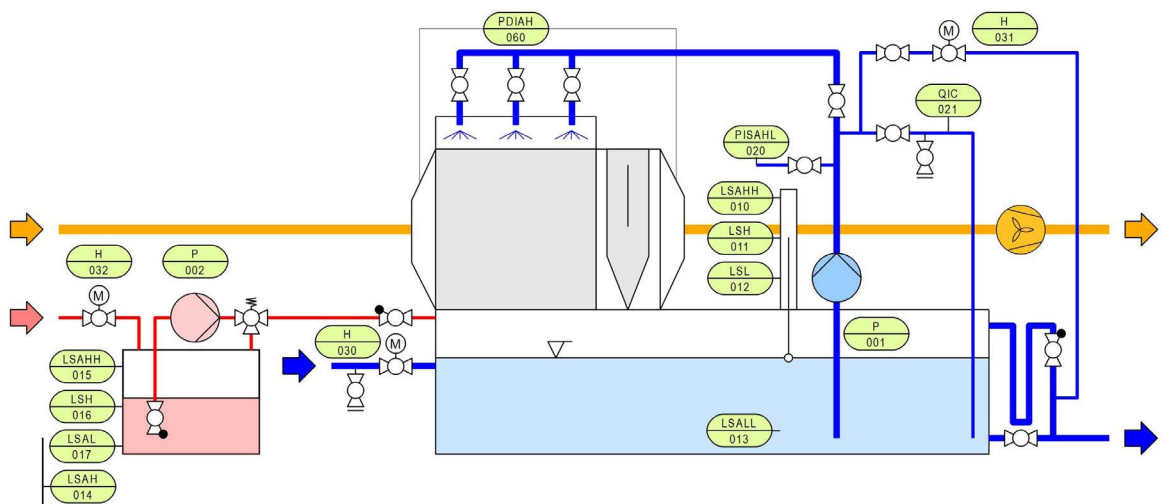
- Available in ATEX model for **Zone 1/2** 

### Accessories

- pH measurement, conductivity measurement
- Chemical dosing; dosing tank
- Automatic sludge removal from the washing fluid
- Design for outdoor installation, screw-in 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 re-used. This is accomplished via a plastic heat exchangers, whereby the thermal energy is used directly in the exhaust air scrubber or separately.

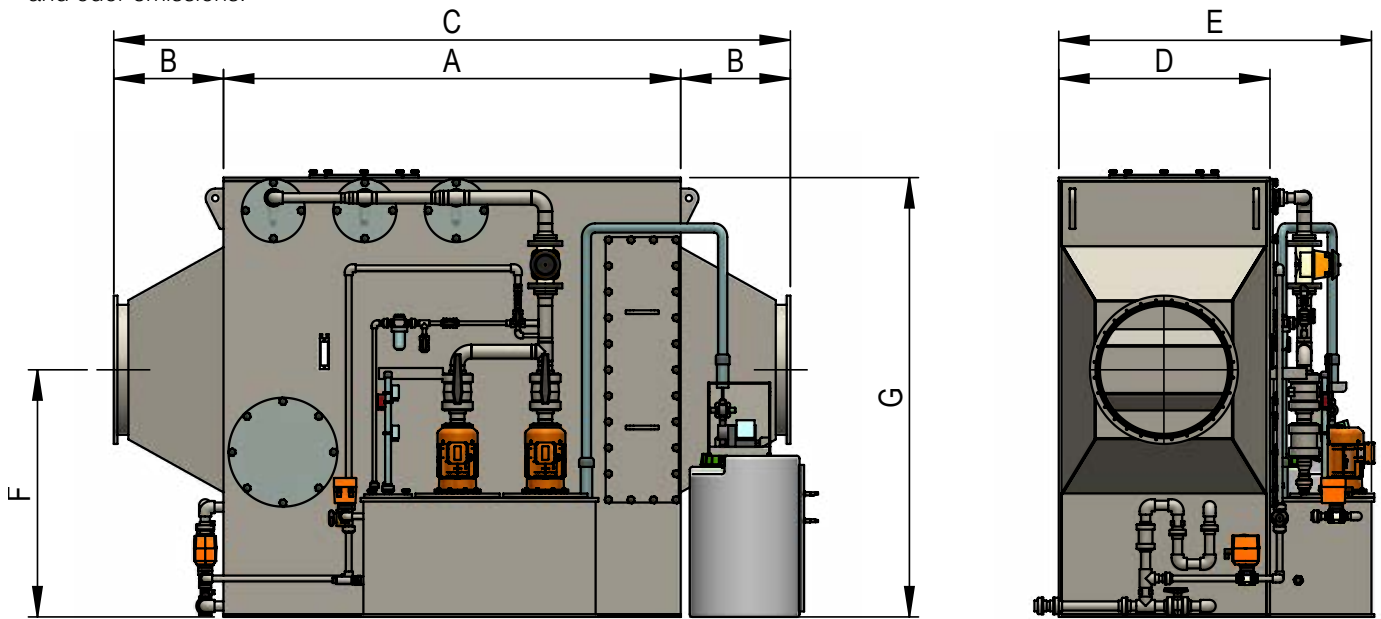


### Exhaust air purification from Colasit

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        |
|------------------|---------|--------|---------|---------|---------|---------|---------|--------------------|
| <b>CRHE 315</b>  | 2000 mm | 500 mm | 3000 mm | 550 mm  | 1150 mm | 900 mm  | 1630 mm | 1500 – 2500 m³/h   |
| <b>CRHE 500</b>  | 2000 mm | 500 mm | 3000 mm | 800 mm  | 1300 mm | 1035 mm | 1900 mm | 3400 – 5600 m³/h   |
| <b>CRHE 630</b>  | 2000 mm | 500 mm | 3000 mm | 1150 mm | 1750 mm | 1150 mm | 2050 mm | 6300 – 10400 m³/h  |
| <b>CRHE 710</b>  | 2000 mm | 500 mm | 3000 mm | 1150 mm | 1750 mm | 1325 mm | 2400 mm | 8400 – 14000 m³/h  |
| <b>CRHE 900</b>  | 2000 mm | 500 mm | 3000 mm | 1500 mm | 2200 mm | 1550 mm | 2400 mm | 11000 – 18300 m³/h |
| <b>CRHE 1120</b> | 2000 mm | 700 mm | 3400 mm | 1500 mm | 2200 mm | 1550 mm | 2850 mm | 14600 – 24300 m³/h |
| <b>CRHE 1250</b> | 2000 mm | 700 mm | 3400 mm | 1800 mm | 2600 mm | 1550 mm | 2850 mm | 17500 – 29200 m³/h |
| <b>CRHE 1400</b> | 2000 mm | 700 mm | 3400 mm | 2200 mm | 3000 mm | 1750 mm | 3250 mm | 26200 – 43600 m³/h |
| <b>CRHE 1600</b> | 2000 mm | 700 mm | 3400 mm | 2800 mm | 3600 mm | 2050 mm | 3850 mm | 42400 – 70600 m³/h |

|                   | A       | B      | C       | D       | E       | F       | G       | Volume flow        |
|-------------------|---------|--------|---------|---------|---------|---------|---------|--------------------|
| <b>CRHE 315L</b>  | 2500 mm | 500 mm | 3500 mm | 550 mm  | 1150 mm | 900 mm  | 1630 mm | 1500 – 2500 m³/h   |
| <b>CRHE 500L</b>  | 2500 mm | 500 mm | 3500 mm | 800 mm  | 1300 mm | 1035 mm | 1900 mm | 3400 – 5600 m³/h   |
| <b>CRHE 630L</b>  | 2500 mm | 500 mm | 3500 mm | 1150 mm | 1750 mm | 1150 mm | 2050 mm | 6300 – 10400 m³/h  |
| <b>CRHE 710L</b>  | 2500 mm | 500 mm | 3500 mm | 1150 mm | 1750 mm | 1325 mm | 2400 mm | 8400 – 14000 m³/h  |
| <b>CRHE 900L</b>  | 2500 mm | 500 mm | 3500 mm | 1500 mm | 2200 mm | 1550 mm | 2400 mm | 11000 – 18300 m³/h |
| <b>CRHE 1120L</b> | 2500 mm | 700 mm | 3900 mm | 1500 mm | 2200 mm | 1550 mm | 2850 mm | 14600 – 24300 m³/h |
| <b>CRHE 1250L</b> | 2500 mm | 700 mm | 3900 mm | 1800 mm | 2600 mm | 1550 mm | 2850 mm | 17500 – 29200 m³/h |
| <b>CRHE 1400L</b> | 2500 mm | 700 mm | 3900 mm | 2200 mm | 3000 mm | 1750 mm | 3250 mm | 26200 – 43600 m³/h |
| <b>CRHE 1600L</b> | 2500 mm | 700 mm | 3900 mm | 2800 mm | 3600 mm | 2050 mm | 3850 mm | 42400 – 70600 m³/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



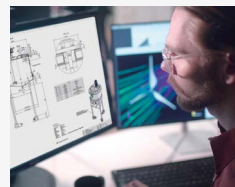
Ventilation systems made of plastic for efficient routing of corrosive exhaust air and gases



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

## COLASIT AG

Plastic construction • Faulenbachweg 63 • 3700 Spiez, Switzerland  
Phone +41 (0)33 655 61 61 • ventilations@colasit.com

[www.colasit.com](http://www.colasit.com)

Competence in plastics. Worldwide.

