



## **FRIDURIT® FUME SCRUBBER C20**

Local extraction of laboratory exhaust air

[www.kyocera-solutions.de](http://www.kyocera-solutions.de)

# FRIDURIT® LABORATORY TECHNOLOGY FOR LABORATORY PERFECTION

FRIDURIT is a leading brand for laboratory work surfaces, as well as for decentralised exhaust air and waste-water treatment.

All our products are developed with our customers in mind. We look at customers individually to ensure that we supply the solution that exactly meets their needs.

The satisfaction of our customers is of great importance to us. This is our best reference and proof of the high quality of our solutions.





**All over the world, hundreds of companies and institutions work with FRIDURIT environmental equipment. At the end of the day it's trust that counts!**

# **FOR THE ENVIRONMENT AND YOUR SAFETY THE CLEAN SOLUTION**

The FRIDURIT fume scrubber C20 was especially developed for decentralised treatment of chemically contaminated exhaust air by means of local extraction.



**Flexible  
treatment of  
laboratory  
exhaust air.**



Our product supplies lasting support in preserving your laboratory and building substance. With minimal noise level and power consumption a high degree of absorption efficiency can be achieved.

FRIDURIT fume scrubbers keep you on the right side of the law: They meet the legal requirements for adherence to limit values placed on vaporous and gaseous inorganic substances, for minimising emissions from laboratory fume cupboards as well as for preventing the formation of poisonous gases in case of fire.

Our product keeps you well ahead for the future. This investment increases for example the LEED Green Building Score, due especially to the fact that the FRIDURIT manufacturing process fulfils all ISO standards for general process management (ISO 9001:2008), for adherence to environmental aspects (ISO 14001:2004) as well as for implementing an energy management system (ISO 50001:2011). Our membership in EGNATON – European Association for Sustainable Laboratory Technologies – highlights our central maxim: Sustainability and Viability.

## COMPACT DESIGN HIGHEST ABSORPTION EFFICIENCY

The mobile fume scrubber works according to a highly efficient absorption principle:  
The contaminated air is suctioned through the separating devices and then exhausted at the back. A modification of the ventilation system is not necessary.

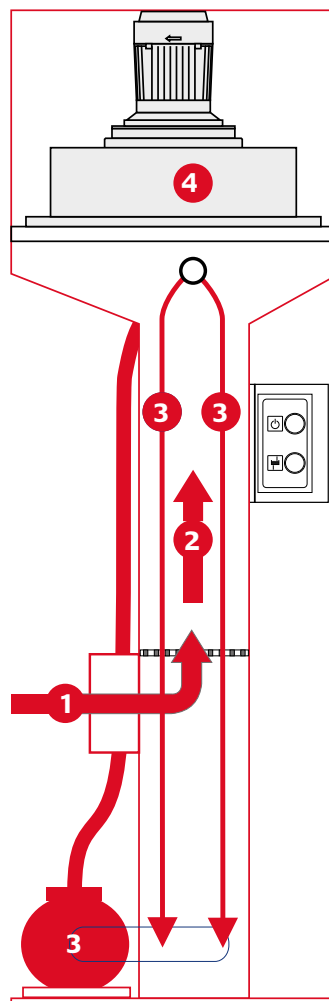
### EXAMPLES OF USE



The fume scrubber C20 is flexible in its installation in the laboratory. Besides an installation on laboratory benches or on the floor it can be placed where the installation of a fixed scrubber is not possible due to restrictions of space. Please note that the unit must not be installed inside a fume cupboard.

## THE FUNCTIONAL PRINCIPLE

- 1 The contaminated exhaust air is suctioned directly into the absorption room by means of an integrated fan.
- 2 Intensive washing of the pollutants in the pall ring package takes place there.
- 3 The washing liquid is continuously led over the pall ring package by means of an integrated pump.
- 4 The purified waste-air is led into the downstream duct system by the fan.



# THE ADVANTAGES IN A NUTSHELL

Sustained development and viability are the maxims for using FRIDURIT fume scrubbers. We have been a reliable partner to our customers for more than 20 years, ensuring smooth implementation of your requirements.

The flexible FRIDURIT fume scrubber C20 is hallmarked by the following:

- ▶ Highest degree of absorption efficiency of up to 95 % despite compact design.
- ▶ Significantly lower investment and operating costs than central cleaning systems.
- ▶ The units can be mounted beside the fume cupboard or close to the source of emission.
- ▶ Extremely simple to operate and largely language-independent due to intuitive operation.
- ▶ During the fully automatic exchange of scrubbing liquid work can continue without interruption.
- ▶ The level of pollutants in the scrubbing liquid can be measured and used for controlling scrubbing liquid exchange.
- ▶ The system has been optimised for the use of process water as scrubbing liquid. The addition of hazardous substances, such as sodium hydroxide can be avoided.
- ▶ Materials that come in contact with media are largely resistant to chemicals, separable according to type and are recyclable.
- ▶ A well-organised service network together with numerous trade partners both at home and abroad provide support for any maintenance and repairs needed.
- ▶ Sanitary, electrical and ventilation connections are constantly improved in cooperation with our customers.
- ▶ Extractor systems of numerous manufacturers can easily be connected to the scrubber.
- ▶ Each FRIDURIT fume scrubber is checked for functionality as well as for adherence to internal quality criteria prior to dispatch.
- ▶ Spare parts are generally available for the entire lifetime of the units. Constant care is taken that newly-developed parts are compatible with those used so far.



**Simple operation  
and reliable service  
worldwide.**



#### FRIDURIT fume scrubber C20

Material	Polypropylene
Absorption efficiency	up to 95 % Air
Flow	max. 200 m <sup>3</sup> /h
Pump capacity	40 l/min
Lifting height	max. 2 m
Dimensions (total external dimensions)	W = 350 / 115 / 330 mm, D = 560, H = 1030 mm
Weight	approx. 32 kg empty, 42 kg full
Water volume	approx. 10 l
Operating voltage	230 V AC / 50 Hz
Performance	0.4 kW (total)
Protection class	IP 20

For further technical details please visit [www.kyocera-solutions.co](http://www.kyocera-solutions.co)

# FRIDURIT® LABORATORY TECHNOLOGY FOR LABORATORY PERFECTION

You place high demands on your products and services in terms of quality. You have every right to pass these demands on to us, and we know that excellent work, research and manufacturing are only possible in an excellent working environment.

FRIDURIT stands for leading know-how in materials and innovative environmental technologies. Due to their extreme durability and suitability for recycling FRIDURIT products make a major contribution to sustainable building.

We offer you:

## **TECHNICAL CERAMICS**

- ▶ Laboratory benchtops
- ▶ Laboratory sinks

## **POLYPROPYLENE**

- ▶ Laboratory benchtops
- ▶ Laboratory sinks

## **ENVIRONMENTAL EQUIPMENT**

- ▶ Fume scrubbers
- ▶ Neutralisation units

# INNOVATIVE SOLUTIONS FOR THE GLOBAL MARKET

## INNOVATIONS FOR MORE THAN 150 YEARS

With more than 150 years of experience in ceramic manufacturing, we offer a range of innovative solutions for many industries: system components for high technology applications in electrical and sensor technology, mechanical engineering, analytical technology, medical and semiconductor technology as well as laboratory technology. In the field of ceramic-to-metal assemblies we possess international leading know-how.

## SPECTRUM OF INNOVATIVE SOLUTIONS

We see ourselves as a partner in the development of high-performance ceramic solutions, which give our customers added value and ensure their technological advantages. Our team advise comprehensive on the selection of ceramic materials, product design and project execution - from the development stage over the prototype fabrication to the serial.

## PARTNER OF A POWERFUL COMMUNITY

Founded in 1863 in Mannheim as brickyard, known as “Deutsche Steinzeug” and later as “Friedrichsfeld GmbH”, the business area Ceramics continued its successful development. Since September 2019, we are part of the KYOCERA Corporation, a world-leading ceramic and technology company.

**KYOCERA Fineceramics Solutions  
GmbH is a specialist company for  
products made of non-corroding and  
wear-resistant materials.**



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