



FRIDURIT® FUME SCRUBBER C20

Local extraction of laboratory exhaust air

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.

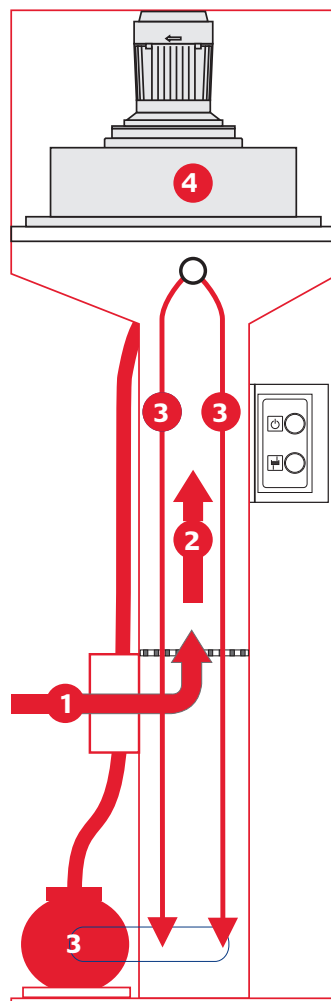
EXAMPLES OF USE



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 life time 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 ³ /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-fineceramics.de

ABOUT KYOCERA



The global Kyocera corporation - a strong partner.

- ▶ **Headquarters:** Kyoto, Japan
- ▶ **Foundation:** 1959
- ▶ **Employees:** over 83.000 worldwide
- ▶ **European headquarters:** Esslingen, Germany
- ▶ **European production sites:** Mannheim, Germany
Selb, Germany
(further subsidiaries in Europe)

 **KYOCERA** = **KYOTO CERAMICS**

KYOCERA – it all began with ceramics

KYOCERA Fineceramics Europe GmbH is part of KYOCERA Corporation, headquartered in Kyoto, Japan, one of the world's leading manufacturer of high-performance ceramic components for the technology industry. Today, the Kyocera Group offers over 200 different ceramic materials and state-of-the-art technologies and services tailored to the individual needs of each market

KYOCERA Fineceramics Europe GmbH has grown steadily in recent years – and is now a leading European supplier of customised solutions made of technical ceramics. Working in partnership, we develop and manufacture products that offer our customers added value in their respective markets and secure their technological lead in the long term. We are committed to this every day.

Throughout Europe, we are represented by two production and development sites in Mannheim and Selb, as well as six sales offices –

in Mannheim, Selb, Esslingen, Neuss, Rungis (France) and Frimley (United Kingdom).

Our hearts beat completely for ceramics. Our team provides comprehensive advice on the selection of ceramic materials, product design and project execution – from the development stage to prototyping.

We supply system components for high-tech applications in numerous industries. Our products are characterised by high quality, precision and durability.

Our business partners benefit from the fact that we think and work across divisions within the Kyocera Group. Because innovations and real milestones can only be achieved together – across industries and national borders.

This is what we believe.

About the KYOCERA Group

KYOCERA Corporation (Kyoto) is one of the world's leading manufacturers of high-performance ceramic components for the technology industry. Strategically important business areas of the Kyocera Group, which consists of around 300 subsidiaries, are information and communications technologies, products to improve the quality of life, and environmentally friendly products. The technology group is also one of the most experienced producers of smart energy systems worldwide.

The products marketed by the company in Europe include printers, digital copying systems, semiconductor-, fine ceramic-, automotive- and electronic components as well as printing devices and ceramic kitchen products.

Kyocera is represented in Germany by four independent companies:

- **KYOCERA Europe GmbH** (Esslingen and Neuss),
- **KYOCERA Fineceramics Europe GmbH** (Mannheim, Selb, Esslingen and Neuss)
- **KYOCERA Automotive and Industrial Solutions GmbH** (Dietzenbach)
- **KYOCERA Document Solutions GmbH** (Meerbusch)

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation – established by Kyocera founder Dr. Kazuo Inamori – to individuals worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind.





KYOCERA Fineceramics Europe GmbH

Steinzeugstrasse 92
68229 Mannheim / Germany
Tel: +49 621 40547-300
E-mail: info@kyocera-fineceramics.de
www.kyocera-fineceramics.de/en

Plant Selb

Lorenz-Hutschenreuther-Strasse 81
95100 Selb / Germany
Tel: +49 9287 807-0

Sales office Esslingen

Fritz-Müller-Strasse 27
73730 Esslingen / Germany
Tel: +49 711 93 93 4-0

Sales office Neuss

Hammfelddamm 6
41460 Neuss / Germany
Tel: +49 2131 16 37-0

Sales office Great Britain

Prospect House, Archipelago, Lyon Way
Frimley, Surrey
GU16 7ER / Great Britain
Tel: +44 1276-69 34 50

Sales office France

Parc Icade Orly - Rungis
21 rue de Villeneuve
94150 Rungis / France
Tel: +33 1 41-73 73 30