FUTURE EMISSION CONTROL

Emission Control Unit

With the FEC from Schräderr

- improve primary combustion
- catalytic afterburning
- and separate fine dust



Advantages during Assembly and maintenance

Less assembly work

- Cost savings due to omission of separate weatherproof power supply and repair switch in the outdoor area
- No adaptation of the chimney systemrequired

Easier maintenance

- Regular cleaning of connecting pipe Combustion system/chimney in combination with FEC cleaning
- No additional maintenance operations in the outside area or
- complicated cleaning on the house roof



Optional: privacy bonnet



- 1. raw gas inlet
- 2. catalysts
- 3. throttle valves
- 4. electrode with holder
- 5. clean gas outlet
- 6. cleaning nozzle for vacuum
 - cleaner top and bottom
- 7. front door

- 8. high voltage feed
- 10. temperature sensor
- 11. quick cleaning opening



3-stage operating principle

Combination and sequence of components reduces harmful emissions as they arise (combustion optimisation) and separates residual dust more efficiently



Innovative control concept

- WEB-based HMI interface for operation and display
- Communication to the control unit: Local WLAN access point or WLAN router connection with Internet connection and remote maintenance option
- Serial bus interface for connection to an external furnace control unit
- Use of standard terminal devices*
- Smartphone
- tablet
- notebook
- PC



High voltage power supply:

- Up to 30kV, max. 4mA,
- power consumption approx. max. 80W
- supply voltage 230V, 50Hz,~

Control unit:

- with high voltage and current adaptation
- with WLAN and RS485 interface (Modbus RTU)

* Requirements: End device with WLAN connection, Operating system IOS, Android and Windows

Cleaning measures of the operator

- 1. quick cleaning with Quick-Cleaner
- Indication Error message of the control
 Cleaning time without opening the FEC
- approx. 1 to 2 minutes
 Recommendation: weekly execution
- 2. vacuum cleaner cleaning if required
- Indication Error message of the control, if quick cleaning was insufficient!
- Cleaning time approx. 5 minutes
- complete cleaning FEC based on Maintenance cycle* of the manufacturer
- Clean all installed components with with vacuum cleaner brush
- (throttle valve unit, catalytic converter unit, insulator and flue pipe parts)
- Cleaning time approx. 20 minutes



* Maintenance cycle base: 6kW heating capacity, 1,5kg/h, 3h/day, 150days/yr, 4,5RM/yr, cleaning cycle 1 / 500h, result: 2,16 times/y

TODAY THE FUTURE

SCHRÄDER ABGASTECHNOLOGIE

The name "Schräder" stands for modern exhaust technology made of stainless steel. In the last two decades the company has undergone rapid development and is one of the leading manufacturers in Germany.

Schräder's development activities have always been based on a on a concept that produces ecologically sound and efficient products. Schräder has thus since the foundation of the company responsibility and ensures a sustainable handling of our resources.

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Schräder's motto "The future today future" accompanies the company every day: Schräder strives to make the world more more sustainable with its products. As a customer, you can protect the environment by using Schräder technology, you can protect the environment you are already making a contribution today to a future. For example, Schräder achieves this with **the automatic butterfly valve Future OptiPa** as well as with the **Schräder Turbu-Flex heat exchanger** and with the use of **Schräder fine dust filters**.

> Schräder's innovative technologies ensure that emissions are reduced and thus contribute to active environmental protection. At the same time you also reduce your running costs. This makes it easy for you to be always one step ahead!

FINE DUST REDUCTION

> HEAT RECOVERY

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Hemsack 11-13 · 59174 Kamen Tel.: +49 (0) 23 07/9 73 00-0 Fax: +49 (0) 23 07/9 73 00-55 und +49 (0) 23 07/7 20 95 Kamen: kamen@schraeder.com Neue Siedlung 1 · 04509 Schönwölkau, OT Badrina Tel.: +49 (0) 3 42 08/7 41-0 Fax: +49 (0) 3 42 08/7 41-19 Badrina: badrina@schraeder.com

www.schraeder.com