



## Krantz Clean Air Solutions

### SmartRTO-E 15/3

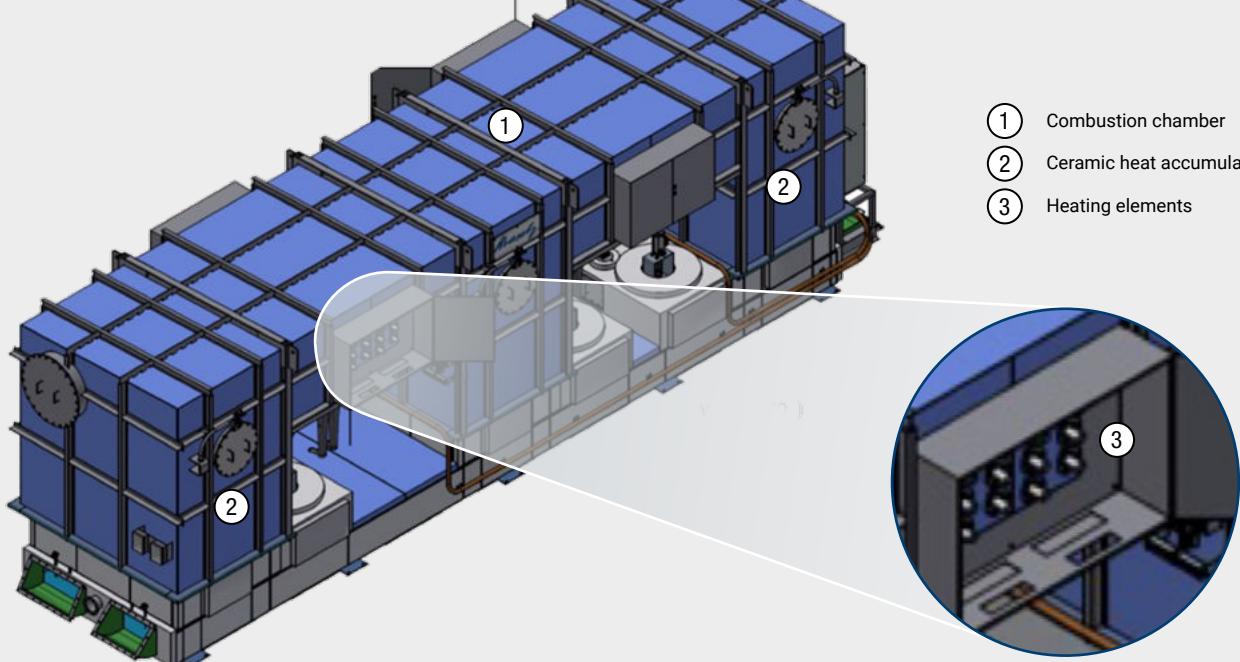
regenerative post-combustion system  
with electrical heating

CO<sub>2</sub>-neutral plug & play exhaust air purification



Clean Air Solutions

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## SmartRTO-E 15/3 regenerative post-combustion system with electric heating

The energy transition is a global topic – at Krantz, we actively shape it every day.

For a clean future, we are committed to CO<sub>2</sub> neutrality in exhaust air purification. That's why we have further developed our compact, mobile SmartRTO system and now also offer an electrically heated version: the **SmartRTO-E 15/3**, designed for volume flows from 3 750 to 15 000 Nm<sup>3</sup>/h.

When developing this model, our goal was to maintain the consistently high product quality and cleaning performance you've come to expect from the proven SmartRTO systems. Our focus is on ensuring maximum durability and dependable performance.

### Features

- Transport-optimized system housing with integrated ceramic heat storage beds, combustion chamber, and control cabinet.
- Separate transport of heating elements
- Assembly of the fan directly next to the system
- Functional modules for energy recovery or an additional hot bypass allow for economical and precise adaptation to specific application requirements.

Our SmartRTO-E is designed for a wide range of applications across Europe and is suitable for all solvent-processing industries.

### Operation data

|  |                    |                                      |
|--|--------------------|--------------------------------------|
| Exhaust air volume flow                  | Nm <sup>3</sup> /h | max. 15 000   min. 3 750             |
| Exhaust air inlet temperature            | °C                 | max. 30 (100 possible with adjustm.) |
| VOC concentration (Assumed 30 000 kJ/kg) | mg/Nm <sup>3</sup> | max. 2 000                           |
| Oxidation temperature                    | °C                 | ca. 820                              |
| Negative pressure (upstream)             | mbar               | max. 5                               |
| Number of heat regenerators              |                    | 3                                    |

| System consumption values   | Operating point       |        |        |
|---|-----------------------|--------|--------|
|   | 1                     | 2      | 3      |
| Exhaust air volume flow   | Nm <sup>3</sup> /h    | 15 000 | 15 000 |
| Exhaust air temperature   | °C                    | 30     | 30     |
| Solvent concentration   | mgvoc/Nm <sup>3</sup> | 0      | 1 000  |
| Electrical power requirement for exhaust fan (including 5 mbar negative pressure) | kW                    | ~ 25   | ~ 25   |
| Power requirement of electric heating elements                                    | kW                    | ~ 330  | ~ 200  |
| Pure gas temperature after SmartRTO-E   | °C                    | ~ 82   | ~ 82   |
| Compressed air consumption  | Nm <sup>3</sup> /h    | ~ 2    | ~ 2    |

### Technical connection data

| Electrical energy           | Compressed air |         |                      |
|-----------------------------|----------------|---------|----------------------|
| Voltage                     | V AC           | 400     | bar <sub>ü</sub>     |
| Frequency <sup>1</sup>      | Hz             | 50      | °C                   |
| Connected load <sup>2</sup> | kVA            | ca. 850 | Nm <sup>3</sup> /min |

<sup>1</sup> The frequency stability must comply with EN 50160 standards, irrespective of the load conditions.

<sup>2</sup> The feed-in meets the EN 50160 criteria for total harmonic distortion (THD) when using pulse packet control of the power controller within a clock frequency range of 20 to 100.

### Size and weight

|                                      |   |                  |
|--------------------------------------|---|------------------|
| Dimensions (L x W x H without fan)   | m | 13.1 x 3.3 x 4.2 |
| Dimensions (L x W x H including fan) | m | ca. 20 x 7 x 4.2 |
| Weight of the installation           | t | ca. 37           |
| Weight of the fan                    | t | ca. 1.5          |

## The choice is yours!

|         |  |
|---------|--|
| Buy ... | The SmartRTO-E arrives ready to use and, with its transport-friendly design, is ideal for both permanent and temporary applications. |
| or rent | Interested in a rental option? Feel free to request a quote – you'll find our contact details on the front page.                     |