



# Product Data Sheet

## Electronic Gas Dosing System for the Kesternich Test – DosiCORR® ED



### Order Information

#### Examples of Chamber with DosiCORR® ED:

**CON 300-FL AIR CWC AWRP EKES**  
Article number: V.702.561.521

**CON 400-FL AIR CWC AWRP EKES**  
Article number: V.701.561.521

**CON 1000-FL AIR CWC AWRP EKES**  
Article number: V.705.561.521

**CON 3000-FL AIR CWC AWRP EKES**  
Article number: V.708.561.521

**CON 3500-FL AIR CWC AWRP EKES**  
Article number: V.709.561.521

**CCT 400-FL-I EKES**  
Article number: V.731.362.121 +  
accessory V.851.110.084

**CCT 1000-FL-I EKES**  
Article number: V.735.362.121 +  
accessory V.851.110.084

**CCT 3000-FL-I EKES**  
Article number: V.738.362.121 +  
accessory V.851.110.084

**CCT 3500-FL-I EKES**  
Article number: V.739.362.121 +  
accessory V.851.110.084

### Sales & Support:

+49 5205 87963 0

Monday to Friday  
8:00 am – 17:00 pm

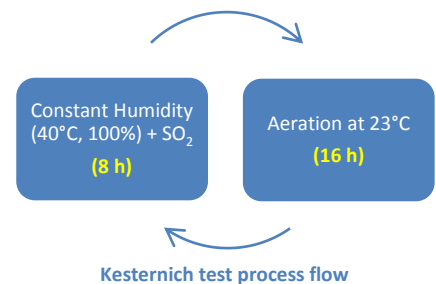
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Specification subject to changes  
Pictures might differ from original

### Applicable Test Standards

- EN ISO 6988
- DIN 50018
- ASTM G 85



### Product Description

The electronic gas dosing system for the Kesternich test (DosiCORR® ED) in SO<sub>2</sub> environment can be fitted to virtually any VLM test chamber (except for the SAL range) and regardless of the controller used. However for the cost-effective reasons only the test chambers belonging to the VLM mid-range (CON, CON-SAL and CCT) featuring Jumo dTRON and Jumo Imago controller will be equipped with this option. This flexibility is possible due to the fact that the DosiCORR® ED gas dosing system operates independently from the process controller built into the basic test chamber.

The operation of DosiCORR® ED gas dosing unit is simple. At the beginning of the Condensation test the control button is pressed on the control display of the DosiCORR® ED gas dosing unit which releases the predefined volume of SO<sub>2</sub> into the test chamber.

### Customer Benefits

- High flexibility in choosing the basic type of the test chamber – the DosiCORR® ED system operates in combination with (almost) all chamber types and all controllers
- User friendly operation
- Highly sensitive electronic mass flow meter allows accurate gas dosing
- Modular design of VLM test chambers allows easy adding of the DosiCORR® ED option long after the chamber has been commissioned
- The complete system is designed according to the highest safety standards; the DosiCORR® ED system with SO<sub>2</sub> bottles is enclosed in a separate casket which is continuously ventilated



Casket with the SO<sub>2</sub> bottle and the electronic mass flow meter



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JUMO Imago 500



JUMO dTRON controller



CON 300-FL with electronic dosing system DosiCORR® ED



Bottle with SO<sub>2</sub> inside DosiCORR® ED unit



Safety air exhaust (in case of SO<sub>2</sub> leakage)

### Safety

SO<sub>2</sub> is a poisonous gas and for this reason was the safety of the operating personnel one of the main DosiCORR® ED design parameters. For this reason this system meets the highest safety standards. Some of the features are:

- The SO<sub>2</sub> bottles are kept in a permanently ventilated casket inside the bench underneath the test cabinet
- The casket is made of a special, fire-resistant material specially designed for this purpose

### Process Control

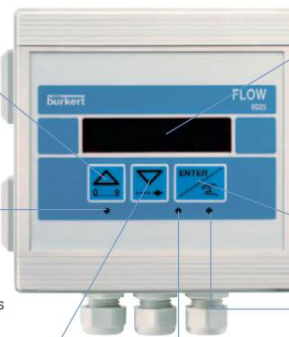
- The standard Kesternich test consists of two phases within one day cycle from which one features the introduction of the gas (SO<sub>2</sub>). The volume of the gas per cycle (in litres) is controlled by the control unit with a handy digital display.
- The standard gas dosing volume for Kesternich test is 2 L per test cycle (one test cycle takes typically 24 h).

### Notes:

- Scrolling up the parameters within a level or a menu
- increase the figure selected

Device status LED: see following table

- Scrolling down the parameters within a level or a menu
- Selecting the figure on the left
- Reading the messages in the information menu



Large digital display with 8 characters (4 digital characters and 4 alphanumeric characters) indicating:

- the measured flow
- the value of the current output
- the value of the main totalizer
- the value of the daily totalizer

- Selecting the displayed parameters
- Validating the settings

Status LED of relay DO3 (LED ON = contact closed)

Status LED of relay DO2 (LED ON = contact closed)

DosiCORR® ED control unit with digital display