

The CON 300/400-S Series



300L and 400L Bench Top Cabinets
for High Humidity and Kesternichttests
acc. to
DIN EN ISO 6270-2:2005
DIN EN ISO 6988
IEC 60068-2-42:2003
EN ISO 3231 : 1997

VLM GmbH

advanced corrosion testing equipment

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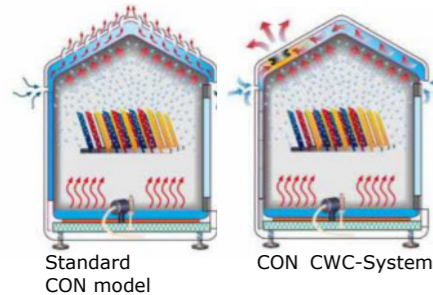


300 L and 400 L VLM bench top cabinets are especially designed to provide best conditions for the most reproducible determination of resistance to humidity acc. to DIN EN ISO 6270-2:2005 Procedure for exposing test specimens in condensation-water atmospheres as well as Kesternich Tests acc. to DIN EN ISO 6988) and Sulphur dioxide tests for contacts and connections acc. to IEC 60068-2-42:2003

Your benefits:

- Protected climate conditions due to double-shelled case construction
- High accuracy of the temperature controlling; $\pm 0,2$ K
- Floor heating of the water bath for even evaporation and constant condensation
- Option: Controlled water-condensation (CWC System)
- Ca. 25 % more testing capacity compared to standard Kesternich chambers
- Convenient and safe operating
- Good workmanship
- Best value for your money

Controlled water condensation for best test results



As the heater below the stainless steel floor provides a uniform heat transfer into the waterbath, the water evaporates from the whole surface. For that reason there is a very constant condensation, protected from draught or sun radiation by the double-shelled case design.

The vertical temperature difference in the chambers of the CWC-models can preset usually by 1°K and will be kept constant. For that purpose fan are installed sucking ambient air through the double-shelled roof thus the upper zone will be cooled. This patented system provides an maximum of reproducibility of the climate conditions and consequently the best comparability of the test results.



Complete equipment ready-to-use

We offer a complete equipment as accessories to carry out Kesternich tests with the introduction of SO₂. Alternatively to the common dosing method (replacing of paraffin) we have developed an electronic metering device which allows the documentation of the dosing quantity by a protocol printer.

The stainless steel bottle can be stored in a permanently ventilated cabinet installed in a foot-standing cabinet or in a fire-resistant safety cabinet especially designed for storing of gas bottles.

To find more information about equipment and accessories you are welcome to visit our homepage: www.vlmgbh.de

Technical characteristics:

Equipment	CON 300-S	CON 400-S
Chamber capacity	300 L	400 L
Chamber dimensions w/d/h1/h2	800x605x720/533 mm	800x605x920/733 mm
Lockable front door	made of safety glass, clear-shield coating, magnetic wiper,	
Front door opening WxH	740 x 400 mm	740 x 600 mm
Interior lightning	standard equipment, longlife lamp	
Working temperature range °C	5°C > ambient up to 50°C (options: 60°C up to 80°C)	
Temperature controller/sensor	1 Advanced Microprocessor Controller PID, 1 x Pt 100 CTD: add.1 Controller roof cooling 1 x Pt 100 Display resolution 0,1 °C Internal timer 0-9999 min Option: Interface RS 232	
Temperature stability	$\pm 0,2$ °K	
Aeration	timer controlled built-in fan air flow ca. 16 m ³ /h	
Timer	Two channel timer for automatic switch over from heating to aeration mode	
Water quality / Filling volume	pure water max. 20µS/cm / ca. 3,5 l Option: Automatic water refill	
Case Dimensions W/D/H	1100 x 670 x 890 mm	1100 x 670 x 1090 mm
Unloaden weight	ca. 110 kg	140 kg
Number of tiers /max. load	5 tiers (stainless steel pipes coated with plastic hose) 30 kg each	
Introduction of SO ₂	Self-closing inlet valve in the right-hand side wall	

Alternative:



400 L fully automatic Kesternich Cabinet CON 400-S A-KES



Foot standing cabinet



Gasbottle cabinet



Laboratory bench

Laboratory bench or a foot standing cabinet with built-in permanently ventilated safety-cabinet for storing the SO₂ gasbottles economizes your space and makes your laboratory more efficient.