

■ ■ ■ Made in Germany

RUMED®
Rubarth Apparate GmbH

**„Made in Laatzen“ –
applied all over the world**



RUMED®
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Test and Simulation Equipment

for quality control, research
and production

Temperature

Humidity

Light

CO₂ Gassing

Ex-proof Execution

Seed tests

Perfect solutions due to precision, environmental responsibility and cost-effectiveness.

Since more than 70 years Rubarth Apparate GmbH produces high-precision environmental simulation equipment for science and industrial laboratories all over the world.

Well-known companies, such as Novartis, BAYER, Nestlé or Dr. Oetker, research institutions, such as the Max-Planck-Gesellschaft or the American National Institute of Health, had been relying for decades on the advanced technology of the brand RUMED®. We deliver to all branches of industry and are leading innovator in the field of low-vibration equipment for protein crystallization, in storage of explosive liquids and gases, or for equipment for the in vitro cultivation of plant cell cultures.

If in the Antarctica, on the research vessel „Polarstern“, or in a seed test centre in Africa – our equipment provides reliable results, even under most difficult research conditions. The precision equipment of the brand RUMED® resolves your problems perfectly.

CONTROL2015 *touch* – one control for everything



Eco-Line – for precise standards



Premium-Line – flexibly configurable



High operating convenience, intuitive handling by means of the CONTROL2015 *touch*.

Easy: Intuitive operation of the clearly arranged 7" colour touchscreen display.

Good: High-precision sensors and the possibility of adjustment allow highly precise working, which is qualifiable and validatable at any time.

Safe: The documentation by means of the integrated recorder and the logbook ensures transparency, easy operation and convenient archiving. The optional digital signature provides conformity with 21CFR part 11.

Precise, extremely reliable, easy to operate and almost vibration-free.

- 4 Test room volumes from 100 to 400 litres
- Temperature range 0 °C to +50 °C
- High operating convenience, intuitive handling by means of the CONTROL2015 *touch*
- Vibration-free, energy-efficient cooling by solenoid valve by-pass technology
- Telescope-like retractable shelves, adjustable in height
- Possibility of combination with the options light and humidity
- Space-saving construction
- Easy cleaning
- Extremely durable


Extremely high quality, durable and flexible – configurable for any kind of climatic test.

- 6 Test room volumes from 210 to 1700 litres
- Test room and external housing of corrosion-resistant stainless steel
- Suitable for installation in a clean room, easy cleaning
- Temperature ranges from –30 °C to +80 °C
- High operating convenience, intuitive handling by means of the CONTROL2015 *touch*
- Eco-friendly refrigerants
- Energy-saving lighting and refrigeration technology
- Noise minimization by speed-controlled compressor fan
- Extremely durable
- Possibility of calibration and validation

Safety T-Line – Explosion-proof test room zone 1



Variable test cabinets with explosion-proof test rooms of zone 1.


- Test room  II 2/- G Ex IIB+H2 T3 with ATEX type approval
- 5 Test room volumes from 320 to 1640 litres
- Test room and external housing of solvent-resistant stainless steel
- Recirculating air fan for good temperature distribution in space
- Intuitive handling by means of the CONTROL2015 *touch*
- Temperature ranges from $-20\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$
- Humidification and dehumidification possible
- Possibility of calibration and validation
- Robust and extremely durable



Safety X-Line – Explosion-proof appliances for zone 1



Highest safety standards with explosion-proof appliances for installation in zone 1.

- Entire system  II 2G Ex IIB T3 with ATEX type approval
- Approved for installation in the ex area zone 1
- 5 Test room volumes from 320 to 1640 litres
- Test room and external housing of solvent-resistant stainless steel
- Recirculating air fan for good temperature distribution in space
- Easy handling by means of a precise temperature controller with digital display
- Temperature ranges from $-20\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$
- Optional dehumidification and humidification
- Possibility of calibration and validation
- Robust and extremely durable



Walk-in chambers – for everything requiring space



Walk-in environmental test chambers provide customized solutions in XXL format.

- Test room volume up to 40 m³
- Individual dimensions, extremely variable equipment
- Available as temperature chamber, climatic chamber or plant growth chamber
- Intuitive handling by means of the CONTROL2015 *touch*
- Gapless documentation
- Energy-saving refrigeration technology
- Possibility of calibration and validation
- Optionally available in explosion-proof execution

Seed Line – Germinators for seed tests



The Seed Line - ideally applicable for systematic ISTA compliant seed tests.

- Soil divider for representative separation of seed samples
- Seed blower for separation of light and heavy seed
- Vacuum seed counter for counting and evenly spacing of seed for germination tests
- Germination tables according to Jacobsen and Rodewald
- Cabinets for germination tests
- Thermogradient tables for research
- Operation with control unit CONTROL2000