

### LAUDA Ultracool

#### The next stage of Energy-Efficient Temperature control

Process circulation chiller with cooling capacity of up to 265 kW from -5 to 25° C for industrial applications

- Suitable for setup outdoors
- Ready-to-operate "Plug & Operate"
- Incl. cold water container, centrifugal pump and internal bypass
- Standard-issue temperature sensing prevents freezing of the heat exchanger
- Integrated pressure switches to protect the circuit against pressure that is too high or too low
- Chiller casing made of galvanized steel panels coated with epoxy resin protected against corrosion even in aggressive production environments



### Variocool

#### Versatile for dissipating process heat in laboratories, mini plants and production facilities

The Variocool stands out due to its precise and flexible temperature control capabilities. It offers a wide temperature range, exceptional temperature stability, and high cooling and heating capacities.

- Variable process thermostats with cooling capacities from 1200 W to 10 kW
- Temperature range from -20 to 80 °C
- Space-saving design and versatile applications
- User-friendly operation with a color TFT display
- Standard USB interface and alarm contact, additional interfaces can be added for enhanced connectivity+
- Integrated bypass and optional pumps for adjusting operating pressure and flow rate



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BE: +32 (0)2 334 22 70  
NL: +31 (0)294 280 599  
info@chemspix.com  
www.chemspix.com



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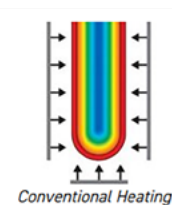
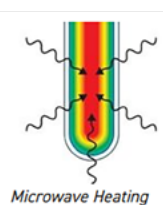
**SciSPX**





**Discover 2.0: The absolute best approach for microwave-assisted Chemical Synthesis**

- Pressurized vessel sizes for a single-mode microwave - 10ml, 35ml, 100ml
- iWave Temperature Sensor can see through glass, Teflon and Quartz
- Vent and reseat technology for safe handling of over-pressurization (ActiVent)
- Variable speed magnetic stirring and rapid compressed air cooling
- Optional integrated camera to observe your reaction
- Upgrade options: Autosamplers - 12/48 positions; Gaseous Addition, Flow cells



**Autosampler**

Set up multiple reactions to run overnight with the 12- or 48- place autosampler. Both autosamplers can accommodate the 10 and 35 mL sealed vessels.



**SyriXus Syringe Pumps: When reliability & accuracy are critical**

Teledyne ISCO SyriXus precision syringe pumps offer precise flow and pressure control across a wide operating range. These pumps ensure accurate metering without pulsation or flow irregularities commonly found in other pump types.

They can handle a wide variety of fluids including:

- Aqueous and organic liquids
- Viscous fluids
- Corrosive solutions
- Slurries and pastes
- Heated fluids
- Liquified gases



**Atlas HD: Automated Batch Reactor System**

- Fully automated control of parameters
- Vessel range: 50ml to 5L
- Temperature range: -90°C to +250°C
- Captures process data
- Intuitive Touch Screen
- High performance hotplate or circulator temperature control and stirring are optional
- Available in different configurations e.g. for crystallization, calorimetry etc.



**Measuring stand S5 for a complete automated solution (PVS)**

The S5 is the measuring part of the PVS system. Its head is comprised of the opto-electronic meniscus detectors as well as the entire control of the measuring process including miniature pump and valves.

The accuracy and resolution of the light sensor measurement system is among the best of its class. The robust micro-pump for pushing the sample up into the measuring ball as well as the chemical-resistant valves in the head of the stand allows reliable and continuous operation.

- Completely micro-processor controlled for a highly precise time measurement
- Adaptive near infrared (NIR) detection
- For (Micro-) Ubbelohde, Cannon-Fenske-Routine and Micro-Ostwald capillaries
- Control can be extended with insert cards for additional 5x S5 stands, VRM modules (automatic cleaning), MT dosing systems.



**Vario EL & UNICUBE -**

**Golden standard in simultaneous CHNS elemental analysis.**

- Little and tool-free maintenance
- Patented ball-valve for blank-free sample introduction
- Unique element separation



UNICUBE



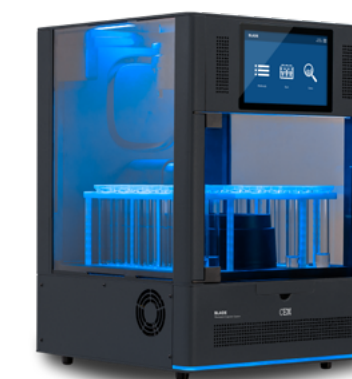
Vario EL Cube



**BLADE: The future of microwave digestion... today**

BLADE™ brings speed, simplicity, performance, and flexibility to labs to increase their capabilities and drive them into the future of elemental analysis.

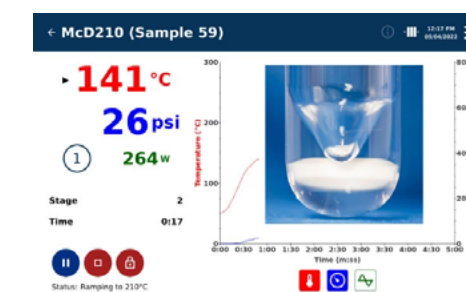
- Digestions in minutes
- Prepare vessel in seconds with the Easy Snap Cap
- Workflow solutions from balance to analysis
- Mix and match samples and acids



**Digest any sample with ease.**

From routine to extreme, BLADE can digest it all with ease. Mix and match samples and acids, including HNO<sub>3</sub>, HCl, and HF, in one batch using available methods.

Even watch your digestion in real-time with the high definition built-in camera.



**Phoenix Black: Microwave Muffle furnace**

Ash samples with unmatched speed and safety with the Phoenix BLACK.

- Ash samples up to 97% faster
- One-step ashing without need of pre-ashing
- Use any type of crucible
- Easy to use methods with automatic start and temperature ramps
- Meets industry requirements for muffle furnaces
- Is CFR 21 part 11 compliant (sulphate ashing)

