

# INCREASE YOUR LAB EFFICIENCY

CoolSafe  
Freeze Dryers  
4-15 Litres

Scandinavian by Design



LABOGENE



# COOLSAFE

## 4-15 LITRES

CoolSafe 4-15 L is an outstanding and versatile range of advanced bench-top freeze dryers. They are the product of more than 40 years' experience and expertise, and are the ideal choice for research, process development and small-scale production.

### Available in 3 different capacities:

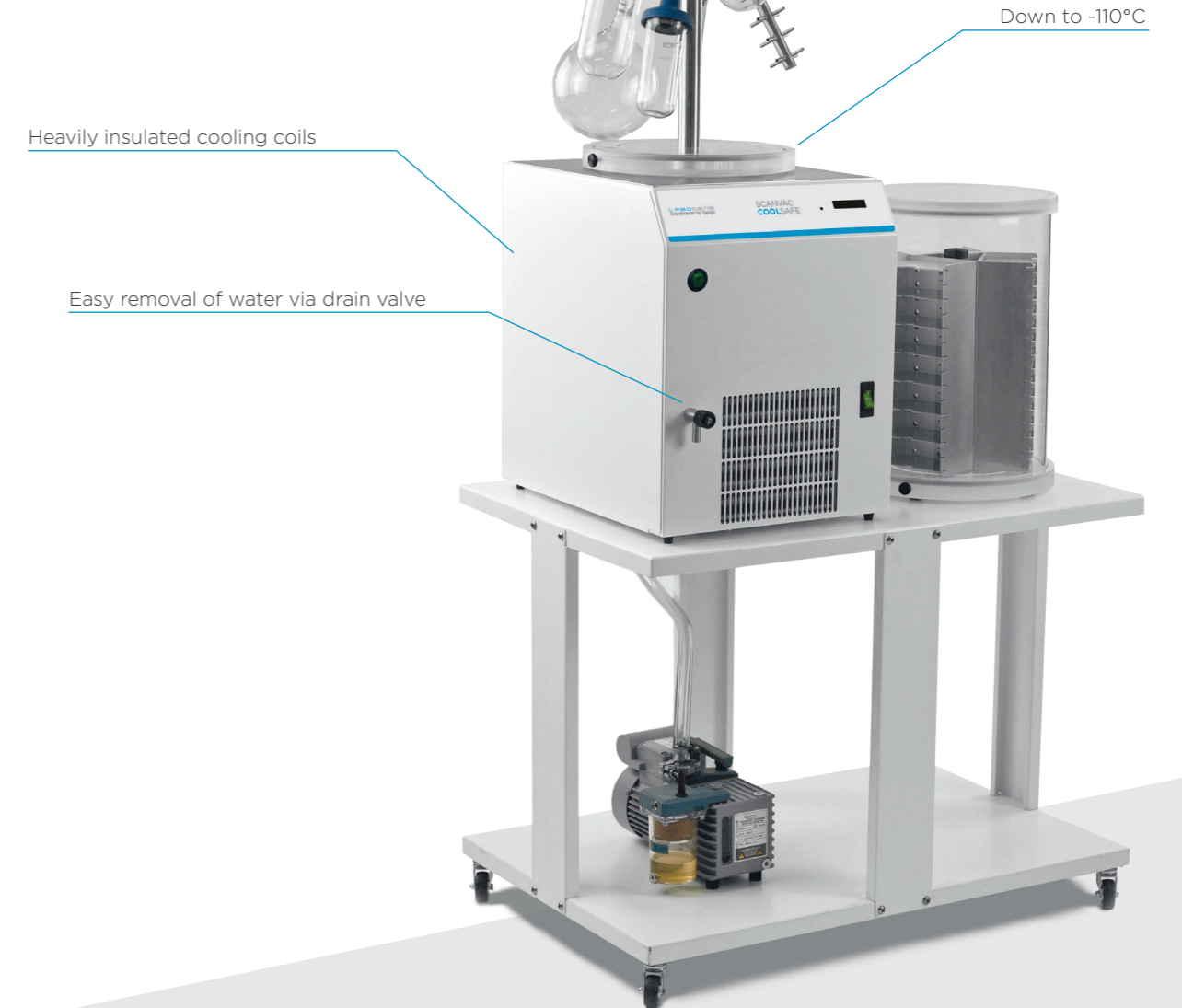
- 4 litres.
- 9 litres.
- 15 litres.

All come with a choice of condenser temperatures and a wide range of high-quality chambers and accessories. All models offer both simplicity of operation and the highest performance characteristics to meet the demands of today's research and development laboratories.

### Proven track record in:

- Quality control – typically for:
  - Food materials.
  - Bacteria.
  - Meat and dairy products.
- Improved preservation – typically for:
  - Floral materials.
  - Vaccines and anti-toxins.
  - Tissues and cells.
  - Fish, shellfish, milk (such as goat & horse milk) and dairy products, vegetables, edible mycelia, soft fruits and berries etc.
- Conservation of archaeological items, such as wood, leather, textiles etc.
- Restoration of water damaged books, documents and paper materials.

*The CoolSafe 4-15 L range is suitable for research, testing and production on a minor scale.*



### What LaboGene's freeze dryers offer:

- Lowest condenser temperatures of -55°C, -95°C, -100°C or -110°C.
- Seamless stainless steel condenser with external cooling coils, heavily insulated to conserve energy and increase performance.

- Easy draining with built-in valve, allowing removal of water after a completed freeze-drying session.
- Easy operation with a built-in vacuum valve connecting the condenser and vacuum pump and allowing the condenser to cool down and the vacuum pump to warm up separately, ensuring an efficient start-up sequence.

# MEET THE COOLSAFE FAMILY

LaboGene's 4-15 L freeze dryers are available in 4 variants: Basic, Pro, Touch and Superior XS/XL, designed to meet the demands of laboratories of all types.



Need a customized solution?  
For more information visit:  
[www.labogene.com](http://www.labogene.com)

## COOLSAFE BASIC

- Digital display of the condenser temperature.
- Wide choice of small chambers, manifolds and accessories to suit your sample requirements.
- Available with 4-litre condenser capacity and temperature options of -55°C or -110°C and condenser ice capacity of 2.5 kg/24 hours - max. 3 kg in total.
- Available with 9-litre condenser capacity and temperature option of -55°C and condenser ice capacity of 4 kg/24 hours - max. 7 kg in total.

## COOLSAFE PRO

- Digital display of the condenser temperature and pressure.
- Wide choice of manifolds, chambers and accessories to suit your sample requirements.
- Available with 4-litre condenser capacity and temperature options of -55°C or -110°C and condenser ice capacity of 2.5 kg/24 hours - max. 3 kg in total.
- Available with 9-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 4 kg/24 hours - max. 7 kg in total.
- Available with 15-litre condenser capacity and temperature options of -55°C or -95°C and condenser ice capacity of 6 kg/24 hours - max. 10 kg in total.

## COOLSAFE TOUCH

- New touchscreen controller with regulation of temperature, pressure and time.
- Freeze-drying with programming and storage of protocols for full research and method development.
- Wide choice of manifolds, chambers with heated shelves and accessories to suit your sample requirements.
- Available with 4-litre condenser capacity and temperature options of -55°C or -110°C and condenser ice capacity of 2.5 kg/24 hours - max. 3 kg in total.
- Available with 9-litre condenser capacity and temperature options of -55°C or -100°C and condenser ice capacity of 4 kg/24 hours - max. 7 kg in total.
- Available with 15-litre condenser capacity and temperature options of -55°C or -95°C and condenser ice capacity of 6 kg/24 hours - max. 10 kg in total.

## COOLSAFE SUPERIOR XS/XL

- New touchscreen controller with regulation of temperature, pressure and time.
- Possibility of pre-freezing your samples.
- Freeze-drying with programming and storage of protocols for full research and method development.
- With the automatic system, it is possible to create your own personal program for each sample - starting with pre-freeze, then primary drying and ending with secondary drying. This secures the highest performance and ensures that the quality of your samples will be the same every time.
- Chamber with 3 electrically heated shelves inside the condenser, with the option of having up to 5 electrically heated shelves in the XL model.
- PT sensors for precise shelf temperature regulation.
- XS is available with a 9-litre condenser and a temperature option of -100°C.
- XL is available with a 15-litre condenser and a temperature option of -95°C.



We stand ready to meet your freeze dryer needs with our efficient solutions



We have the  
**FREEZE DRYER**  
FOR YOUR NEEDS

## CONFIGURE YOUR COOLSAFE FREEZE DRYER

We offer a range of options to configure the freeze dryer to your specific needs:

- Teflon coating of the condenser for longevity, easy cleaning and protection from corrosion, especially when working with aggressive acids.
- Electric de-ice function for fast de-icing of the condenser.
- CoolSafe is easy to place in your laboratory:
  - Available as standard for direct placement on the laboratory table.
  - Available with lockable castors for easy transport and to save laboratory bench space.
  - Available with a trolley and convenient location of the vacuum pump to make the system a mobile freeze-drying unit that can be positioned anywhere in the laboratory.

Contact the LaboGene distributor in your respective country for more information about your options and about freeze dryer customization.

**New**  
Touchscreen  
Controller



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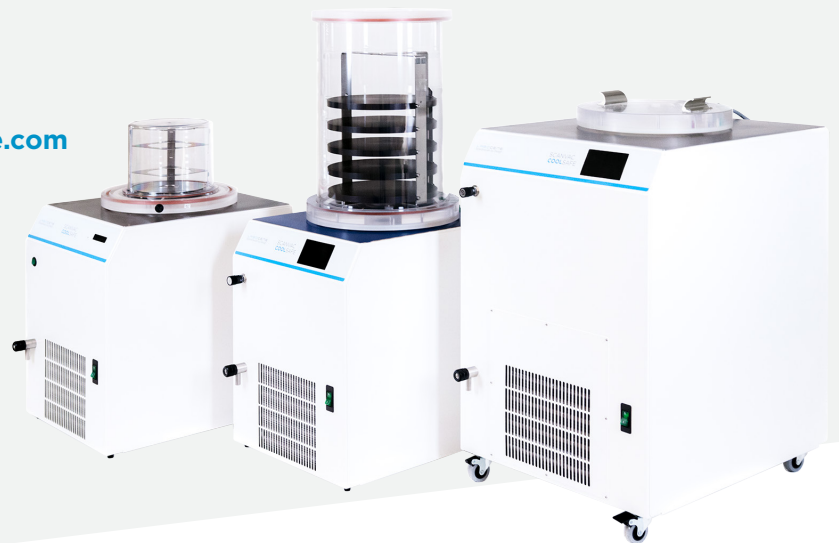
## YEARS OF EXPERIENCE

LaboGene are experts in the fields of Clean Air & Laminar Flow, Centrifugation, Vacuum & Cooling. We provide both standard and perfectly customized solutions. Designing, developing, manufacturing and marketing laboratory and industrial equipment is our speciality.

**Leading supplier in:**

Microbiological safety cabinets  
Freeze dryers  
Freezers  
Centrifuges

Learn more at [www.labogene.com](http://www.labogene.com)



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001