Deep-freezing tunnels ZS and blast chilling tunnels for trolleys
Deep-freezing tunnels ZS
A product designed for large volumes

Wishing to provide equipment adapted for all production volumes, we offer you deep-freezing tunnels adapted to the majority of trolley sizes on the market. Our R & D team relied on our 30 years’ experience in the deep-freezing field and on the latest technologies to provide you with a resistant, reliable and functional equipment that fits the highest standards of hygiene and security.

STURDINESS & EFFICIENCY, your partner in your daily life.

• DEEP FREEZING CAPACITY OF POTATO PUREE (1)
  270 mn cycle - Input temperature +63 °C - Core temperature -18 °C
  From 190 to 600 kg per cycle in standard

• Stainless steel inside and outside to increase the resistance. Polyurethane foam insulation (43 kg / m³), thickness 100 mm.

• 3,5” touch screen interface Bi-Tronic Control 3 at eye level

• Air blow system with double vertical flow for a better temperature uniformity inside the tunnel.

• Electronic expansion valve to optimize the cooling system operation.

• Temperature core probe “Thermo-Sensor”. Put into the core product to be deep-frozen, the “Thermo sensor” probe enables to stop automatically the deep-freezing process as soon as the set temperature is reached.

• Easy cleaning of the entire device.

• Electric and ventilated combined defrost system. Automatic and manual mode.

• Tropicalized refrigeration unit

OPTIONS

• Stainless steel access ramp
• Temperature report
• Temperature and defect recorder
• Silent refrigeration unit
• Mixed refrigeration unit (air + water)
• Refrigeration unit with water condensation
• Connection to a central condensing unit system, on study

(1) Norme ACD40-003
The Hengel deep-freezing tunnel is incredible. Beside being robust, it perfectly deep-freezes my products while facilitating their traceability. Indeed, the touch screen control board allows me to access various historical.

Temperature monitoring and recording system

The i-MINILide recorder box with 5” HD touch screen is autonomous and allows you to record and monitor your deep-freezing tunnel permanently: temperature, technical defects, door openings, ...

Thanks to a local or remote connection, easily access your data at any time, via a USB key, a software or internet. To use and analyze your data, you can print or export (PDF, image, RTF, TXT, spreadsheet)

If your i-MINILide is connected, you can receive emails in case of alarm and remotely acknowledge them.
**BI-TRONIC CONTROL 3, very intuitive, an immediate grip**

More ergonomic and equipped with a **3,5’ color touch screen**, the Bi-tronic Control 3 offers many features:

Touch screen technology

Direct access to the different work cycles, fully customizable to make your life easier.

Access and back up your data:

- Cycles, defaults, temperatures and consumptions data.
- These historical data help to ensure compliance with hygiene standards and to check the maintenance of the cold chain. It makes the diagnosis easier in order to have a more efficient service operation.

USB port

- Export the temperature and consumptions historical data
- Import and export your parameters and programs
- Software update

We conducted the tests in a specialized laboratory to check that our electronic regulation works perfectly, even in environments with strong electromagnetic perturbations.

“A deep-freezing tunnel of Hengel represents productivity gains and it is the assurance to deep-freeze your products respecting their gustatory qualities and original appearances.”