IceStar with ThermoTray

Multipurpose cooling system for CTC-PAL sample racks

Fast and reliable cooling: IceStar temperature controls sample racks with Peltier liquid cooling and manages without cryogenic coolant.



ThermoTray and IceStar refrigeration unit

CONCEPT

IceStar is a simple, reliable and robust system for cooling CTC-PAL sample racks.

Peltier liquid cooling quickly lowers the temperature to up to 20°C below the ambient temperature. The system is designed without maintenance.

YOUR BENEFITS

Fast cooling

rapidly bring the sample racks to the desired cooling temperature.

Robust and maintenance-free

Reliable cooling system for everyday laboratory life.

Without cryogenic refrigerant

No liquid nitrogen and no liquid carbon dioxide is required.

APPLICATIONS

- **Sample racks**
  Reliably cool ThermoTray for PAL RTC and RSI as well as CTC-PAL sample racks.
- **PTV injectors**
  Optionally for cooling programmable temperature-controlled evaporators in gas chromatography.
- **Cold traps**
  Optionally temper further components; the appropriate connection is technically coordinated.

TECHNICAL DATA

Cooling principle	Peltier liquid cooling
Cooling range	Up to 20 °C under ambient conditions
ThermoTray	For PAL RTC and RSI
Options	PTV injectors, cold traps
Maintenance-free design	

The attainable temperature depends on the environment and the cooling task. The system configuration is chosen to suit the application.

CHROMTECH GmbH
Carl-Zeiss-Strasse 20 · 65520 Bad Camberg
info@chromtech.de · www.chromtech.de

Status 01.10.2026