VIA Thaw™ L1000 automated dry thawer

CELL THERAPY SYSTEMS

VIA Thaw™ L1000 dry thawers provide automated, controlled and consistent thawing of cellular products in cryobags. These instruments use a dry heat technology and multiple sensors to determine when thawing is complete, removing the uncertainties associated with non-controlled systems and manual operations. VIA Thaw systems can also be integrated with Chronicle™ automation software[1], allowing user-customizable thawing profiles to be synchronized among multiple units and for the generation of complete electronic batch records.

VIA Thaw units offer the following benefits:

- **Consistent, automated thawing:** Automating thawing to an exact endpoint can maximize cell viability and minimize process variation and mishandling. Users can optimize thawing profiles and, through integration with Chronicle software, instantly share them to all linked units.
- **Multiple sizes:** Dry thawing technology applies the same process to multiple bag brands and volumes, from 10 to 275 mL.
- **Scalable thawing:** By connecting VIA Thaw instruments through Chronicle software, users can synchronize profiles to new VIA Thaw units when more thawing capacity is needed. Scale effectively, without changing processes.

The VIA Thaw L1000 system is intended for research or manufacturing use only and is not designed for clinical procedures or diagnostic purposes. VIA Thaw L1000 units should only be used by specifically trained scientists or technicians in a laboratory or manufacturing setting.

Fig 1. The VIA Thaw L1000 instrument.

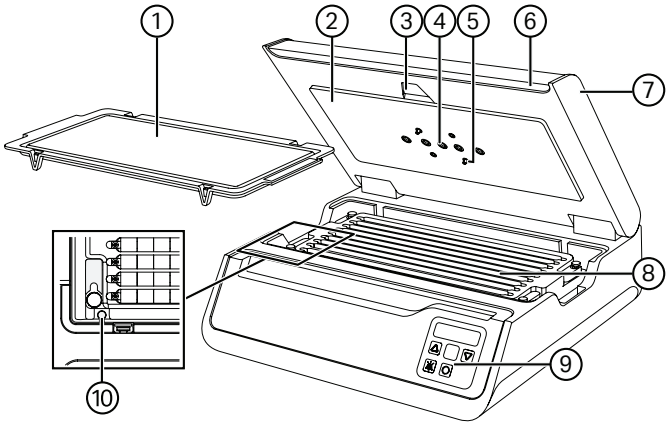
Fig 2. VIA Thaw L1000 with thawing tray removed to show the flexible bed.

Instrument specifications and components

VIA Thaw instruments accommodate multiple cryobag sizes and fill volumes. Single cryobags are positioned in the tray, and the flexible bed molds to the shape of the frozen bag for efficient heat transfer (Fig 2).

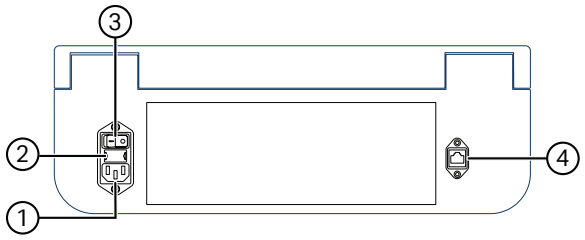
Once thawing starts, agitators (on the top plate) gently agitate the cryobag surface. Infrared temperature sensors monitor the temperature trend, triggering thawing process steps and alarms as needed. Indicator lights on the control panel change in correspondence to advancing process steps.

Users can customize thawing profile parameters for enhanced process control, such as bag fill volume, thawing time, initial temperature alarm level, and accessibility. Alarms alert operators when defined temperature setpoints are exceeded or when thawing is complete. Alerts can be selectively enabled on VIA Thaw L1000 units.



Part	Description
1	Thawing tray
2	Top heating plate
3	Barcode reader
4	Infrared (IR) sensors (×5)
5	Cryobag agitator (×4)
6	Grip
7	Lid
8	Bottom heating plate
9	Control panel
10	Drain plunger

Fig 3. Illustration showing an overview of VIA Thaw instruments.



Part	Description
1	Application inlet
2	Fuse holder
3	Power switch
4	Network port

Fig 4. Illustration showing the power and network connections present on VIA Thaw instruments.

Specification table

Maximum cryobag dimensions (W × L × H)	305 × 140 × 15 mm
Compatible cryobags manufacturers*	Charter Medical, OriGen, Miltenyi™
Cryobag fill volume	10 to 275 mL
Instrument dimensions (W × L × H)	430 × 375 × 150 mm
Weight	13.0 kg
Thaw loading temperatures	From -196°C to 0°C
Thawing profiles	• 8 pre-programmed profiles available and editable • 8 profiles downloadable from Chronicle™ software
Networking†	Wired LAN: IEEE 802.3
	Wireless LAN: IEEE 802.11 b/g
Thawing temperature	34 ˚C ± 1 °C
Integrated camera	Yes
Operating voltage	100-240 VAC (50/60 Hz)
Maximum power consumption	650 VA
Connects to Chronicle automation software	Yes

* Contact your local Cytiva representative for detailed information about cryobag models and fill volumes.

† Wireless LAN is not available in all countries and is disabled by default on delivery. Wireless LAN can be activated in an approved region.

Ordering information

Product	Product code
VIA Thaw L1000	29403109
Thawing tray	29458851

Safety and compliance

The VIA Thaw L1000 instrument is manufactured and controlled under an ISO 9001 certified quality system. This unit is intended for research or manufacturing use only and is not cleared or approved for clinical procedures or diagnostic purposes. The VIA Thaw L1000 instrument has the following approvals: CE, cTUVus, FCC, IC, RCM, KC, EAC and UKCA.[2]

References

1. Chronicle automation software is a web-based, fit-for-purpose digital solution to view and store information about instruments, processed samples, and thawing profiles. Chronicle software is not part of VIA Thaw instruments, is not required for instrument functioning, and can be purchased separately.

2. CE = Compliance for European Union and European Economic Area; cTUVus = NRTL (Nationally Recognized Testing Laboratory) certification from TÜV Rheinland, demonstrating compliance for US and Canadian markets; FCC = Federal Communications Commission; IC = Industry Canada; RCM = Regulatory Compliance Mark for Australia and New Zealand; KC = Korea Certification; EAC = EurAsian Conformity; UKCA = UK Conformity Assessed.

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