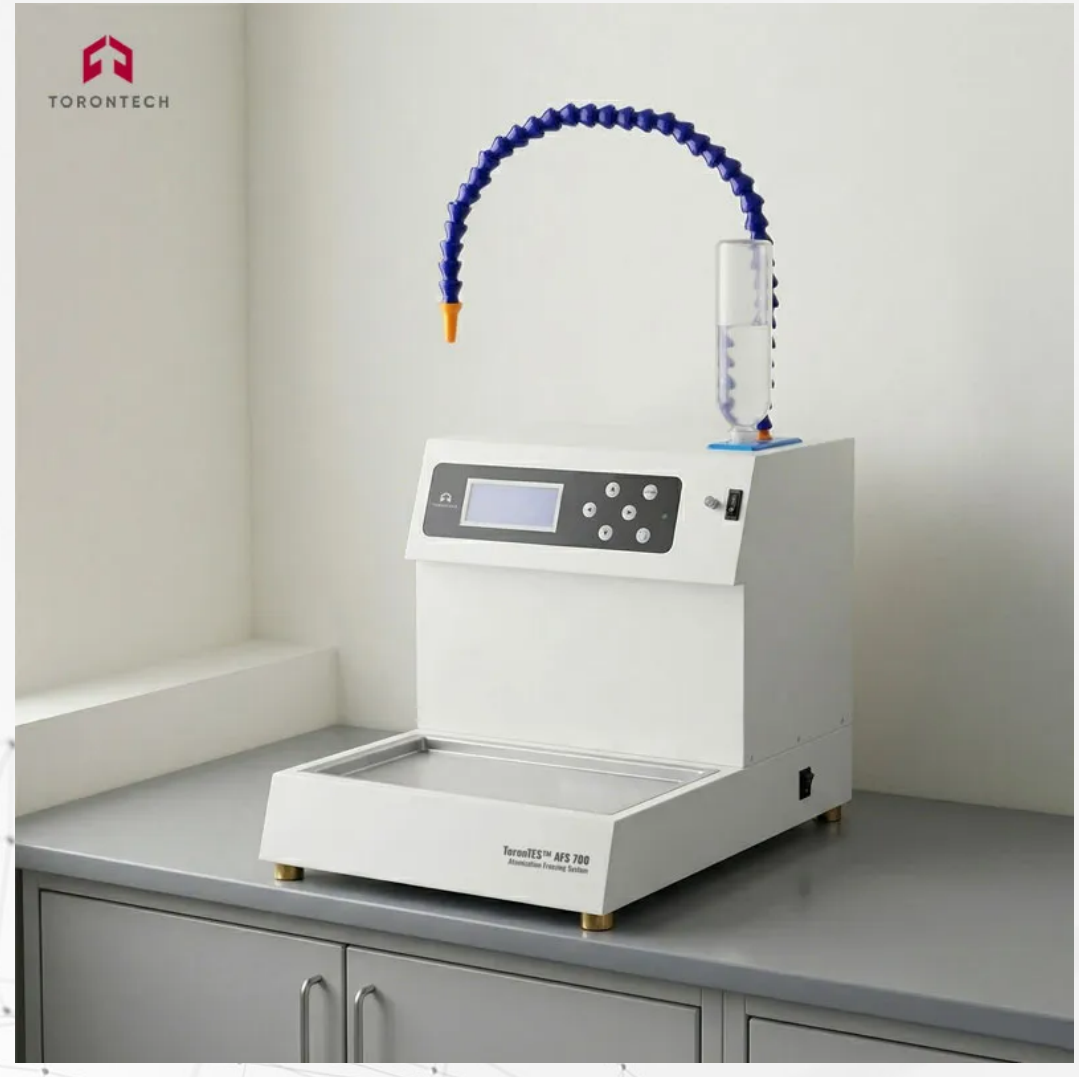
TORONTECH



ATOMIZATION FREEZING SYSTEM

Atomization Freezing System - ToronTES™ AFS 700

Atomization Freezing System ToronTES™ AFS 700 is a compact bench-top freezing unit designed to improve paraffin block handling and section preparation at the cold plate stage. The Atomization Freezing System is a cold plate with added atomization capability, giving users two working modes: atomization and cold atomization. Both modes are intended to help prevent sections from rolling and support flatter sections during slicing.

This system is designed for laboratories that want faster cooling, better section handling, and a larger cold work surface than a standard compact plate. The worktable can hold about 70 embedded cassettes, and the system reaches operating temperature in about 5 to 10 minutes.

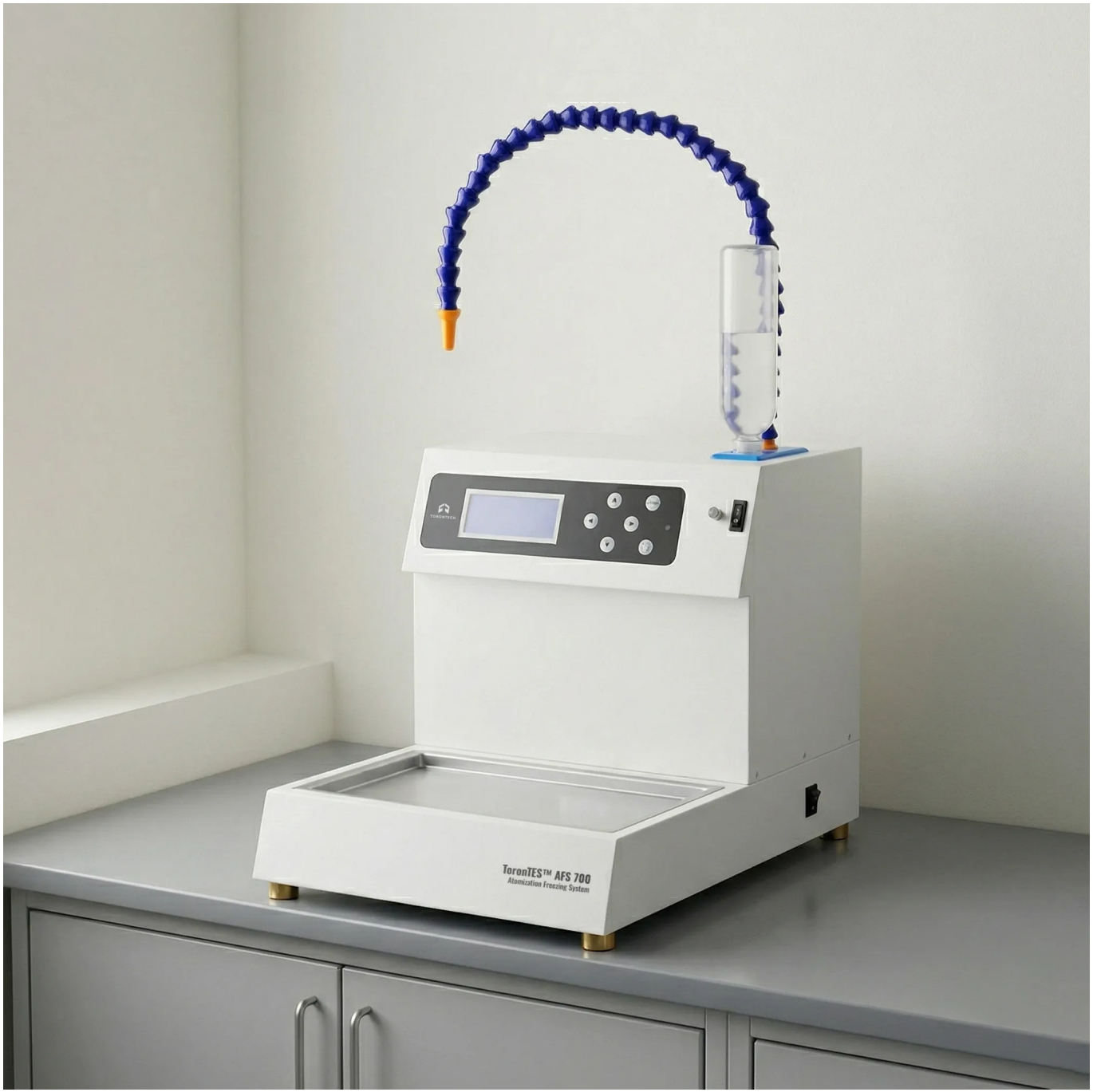
ToronTES™ AFS 700 is a practical fit for histology and pathology workflows where block cooling and section flattening can affect cutting consistency and operator efficiency. Its memory function and delay-protection function also support more stable day-to-day operation.

APPLICATIONS

Atomization Freezing System - ToronTES™ AFS 700 Applications

- Histology and pathology laboratories: the Atomization Freezing System is suitable for tissue-preparation workflows where embedded blocks need fast cooling before sectioning. The added atomization function is designed to help reduce section rolling and improve section flatness during slicing.
- Paraffin block preparation before microtomy: ToronTES™ AFS 700 works well in workflows where cassettes are cooled after embedding and before microtome sectioning. Its larger work surface supports batch handling for routine daily lab use.
- Higher-throughput laboratory work: because the system can accommodate around 70 embedded cassettes, it is also a good option for laboratories that process multiple blocks in one session and want a dedicated freezing station beside

the embedding or cutting area.


TORONTECH
ToronTES™ AFS 700
Atomization Freezing System

FEATURES

Atomization Freezing System - ToronTES™ AFS 700 Key Features

- Added atomization function: ToronTES™ AFS 700 is built on a cold-plate design with an added atomization function. This expands the role of the system beyond simple block cooling.
- Two operating modes: the system offers two working modes: atomization and cold atomization. Both help prevent the section from rolling and support flatter sections during slicing.
- Delay protection function: a delay-protection function is included to support safer and more stable operation during routine use.
- Memory function: the built-in memory function helps preserve working settings and supports more convenient daily operation.
- Large worktable capacity: the large worktable can accommodate about 70 embedded cassettes, making the unit suitable for routine batch handling in active laboratories.
- Fast cooling response: the system reaches temperature in about 5 to 10 minutes, which helps shorten waiting time between embedding and sectioning steps.
- Bench-friendly footprint: its compact bench-top format makes it easier to position beside an embedding center or microtome station without requiring a large floor-standing footprint.

THEORY & METHOD

Theory and Method

An Atomization Freezing System works by cooling the work surface so embedded blocks can be stabilized before sectioning. In this type of setup, the cold plate helps harden the paraffin block, while the added atomization function is intended to

improve section behavior during slicing by reducing rolling and helping the section lie flatter.

ToronTES™ AFS 700 adds atomization capability to a cold-plate-based workflow. The Atomization Freezing System - ToronTES™ AFS 700 have two working modes, atomization and cold atomization, both intended to improve section flatness during cutting. This makes the unit useful for laboratories that want better control over block cooling and section handling in one station.

The system also includes delay protection and memory functions. These features help the unit return to stored operating behavior and support more predictable use during routine bench work.

TECHNICAL SPECIFICATIONS

Atomization Freezing System - ToronTES™ AFS 700 Technical Specification

Parameter	ToronTES™ AFS 700
Product Type	Atomization Freezing System
Working Modes	Atomization, Cold Atomization
Freezing System Size	610 × 400 × 380 mm
Cooling Area	340 × 250 mm
Capacity	About 70 embedded cassettes
Temperature Pull-Down Time	5 to 10 minutes
Voltage / Frequency	220 V / 50 Hz or 110 V / 60 Hz
Net Weight	30 kg

TORONTECH.com

TORONTECH

Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE

Phone: +971 488 19252
Email: me@torontech.com

USA | Canada | EU | UAE | GCC | KSA | India | Africa | Latin America | Asia