

THE AVANTIK

QS12

CRYOSTAT



 AVANTIK

Your Lab... quick, efficient, easy.

With more than three decades of support to Laboratories nationwide, Avantik is proud to deliver *The Avantik QS¹² Cryostat*. The QS¹² is the most advanced, accurate and intuitive cryostat available. The QS¹² and QS^{12UV} feature our EZ-Touch touchscreen control panel, our dovetail bladeholder system to eliminate chatter, venetian blind and thick/thin sections, an exceptionally smooth handwheel rotation and the industry's most advanced, reliable and accurate stepper motor technology. The QS¹² and the QS^{12UV} provide unmatched features and benefits to enhance accuracy, efficiency and safety. Most of all, the QS¹² offers the most precision and efficiency to assure your confidence, and help you to achieve **Perfect Sections every time!**



Avantik QS¹² Cryostat

| Product | Description |
|------------------|---|
| QS ¹² | <ul style="list-style-type: none"> Stepper motor technology achieves: precision trim thickness, precision section thickness, sectioning depth measurement EZ-Touch control panel provides precise control of all cryostat functions, including temperature adjustment, specimen head advance and retract, section and trim thickness and more, all while keeping valuable hands out of the cryostat chamber Automatic specimen retraction on return stroke Dovetail bladeholder base design <i>eliminates</i> chatter, venetian blind and thick/thin sections Peltier provides fast freezing (-55°C) for 4 stations, 27 stations total |

Additional UV Disinfection Option

| | |
|--------------------|--|
| QS ^{12UV} | <ul style="list-style-type: none"> Powerful 39W UV option enables surface disinfection of harmful bacteria Immediate or scheduled disinfection |
|--------------------|--|



Peltier provides fast freezing (-55°C) for 4 stations (27 freezing stations total)

Stepper motor technology achieves: precise trim and section thickness, sectioning depth measurement



With UVC dial, choose any time between 0 and 300 minutes and walk away

Powerful 39W UV light source does the rest



The Avantik QS12 EZ-Touch Touchscreen Interface

Allows single touch operation, which increases speed, efficiency and turnaround as well as eliminating the need for hands inside the cryostat while performing most common cryostat functions.

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Perfect Sections

EZ-Touch | Touchscreen User Interface

The touchscreen interface is a completely intuitive and unique to the Avantik Cryostat. The interface conveniently controls all cryostat functions such as temperature adjustment, section and trim thickness, specimen head advance and retract and more, all while keeping your hands out of the harsh confines of the cryostat. This diminishes the risk of injuries sustained while adjusting dials and settings with hands inside the cryostat.

Unmatched blade stability

The unique “dovetail” bladeholder base design provides complete stability and prevents lateral movement or vibration, which eliminates common sectioning problems such as chatter, venetian blind, and thick/thin.

Improved section quality and consistency

The fully adjustable, extra-wide anti-roll glass helps deliver consistent, artifact-free sections. Automatic specimen retraction on the return stroke protects the specimen from contact with the blade or bladeholder surfaces preventing friction or damage to the surface of the specimen and preserving the quality of subsequent sections.

Accurate section measurement

The sophisticated stepper motor technology delivers the most precise advance available. This enables the operator to achieve precise trim thickness, section thickness, and sectioning depth measurement in microns.

Convenient memory function

The memory function provides a quick, predefined advance of specimen to the knife edge, allowing the operator to record the last position of the specimen relative to the blade before removing it. The specimen can then be automatically returned to the same position if additional sections are required, for increased technician speed and efficiency.

The **QS¹²** and **QS^{12UV}** provide an exceptional level of precision for accurate sectioning and specimen placement and handling. The advanced technology of the EZ-Touch Touchscreen Interface and automated features make it simple for technicians to obtain consistent, high-quality, perfect sections every time.

QS¹²

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Features

Benefits

| | |
|--|--|
| Dovetail clamping knifeholder | Eliminate chatter, venetian blind & thick/thin sections |
| EZ-Touch Touchscreen Control Panel | All controls are easily identifiable and outside the cryostat to keep the technicians hands out of harms way as much as possible |
| 27 Freezing stations | Greater specimen capacity for labs with high volume |
| Peltier cooling device | Faster specimen preparation and decreased freezing times increase lab productivity |
| Memory feature | Predefined advanced of specimen to knife-edge for easy re-cuts |
| Controlled trim function | Reduced risk of “chunking out” |
| Ultra quiet & efficient refrigeration system | Eliminate frost buildup and greatly reduce the ambient noise in your lab |
| Smooth handwheel rotation | Reduce the risk of repetitive motion injury by 85% |

QS12 Specifications

| | |
|------------------------|---------------------------------|
| Instrument dimensions | 29"W x 30"D x 45.5"H |
| Recommended clearances | 36"W x 33"D x 60"H |
| Instrument weight | 315 lbs. |
| Electrical requirement | 120V, 20 amp dedicated circuit* |

*Recommended dedicated 20 amp circuit



From the #1 Name in Mohs Lab Solutions

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