

Highlighting innovative design features  
and useful applications information for  
**Thermo Scientific Water Purification Systems**

**Thermo**  
SCIENTIFIC

# smart notes

► design & innovation



TYPE 2 WATER

## Q Why should secondary schools and colleges choose stills over traditional water purification systems?

# A

**Unlike traditional water purification systems, stills can easily be turned off for an extended period of time, such as during breaks in the school year, and returned to service without the need for consumables or sanitizing, saving costs and resources.**

Secondary schools and many colleges have extended breaks during the year, such as summer and winter break, and must decide how to maintain their water purification systems during this time. The average water purification system requires that the system either run during these breaks or, if shut down, have all consumables replaced and the system sanitized before it can be used again. Stills do not use filters, and can be drained to prevent biofilm, optimizing resources while reducing costs and waste during school breaks.



# Why Thermo Scientific Barnstead Stills?

## Maintenance of a typical water purification system

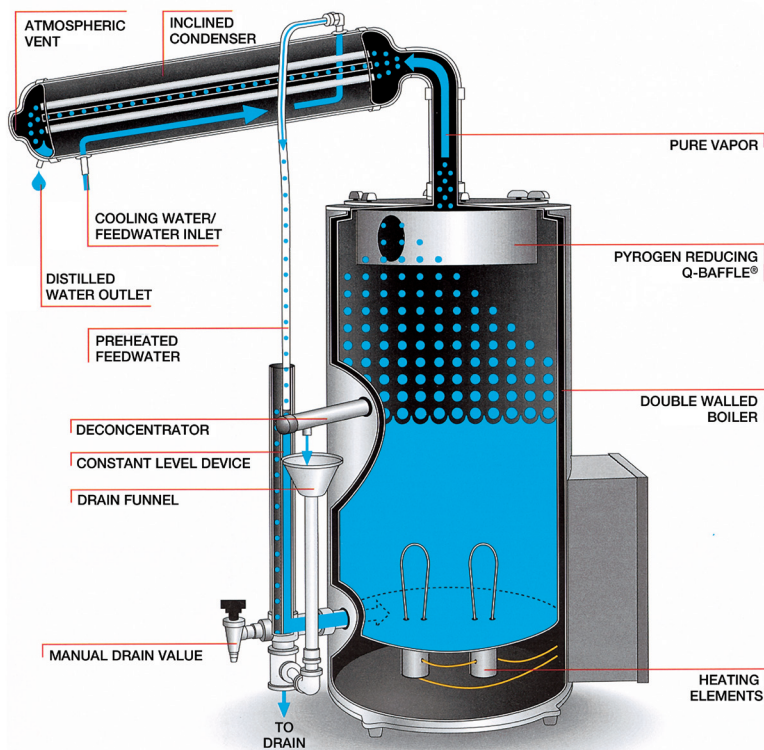
There are two standard options to maintain a water purification system during breaks in the school year. The first option is to keep the system on and set in the recirculation mode, allowing the system to recirculate water to protect against biofilm. This option utilizes both consumables and energy during recirculation. The second option is to turn the system off for the break. When the system is turned back on, the filters and cartridges would need to be replaced and the system would need to be sanitized to remove biofilm, incurring additional costs and time before operation.

## Advantages of choosing stills

Thermo Scientific Barnstead stills offer a third, more cost-effective solution. These stills can easily be prepared for extended breaks by simply draining the system completely. Draining the system completely discourages biofilm and eliminates the need to sanitize it during start up. As the still does not require filters to purify the water, there are no filters to replace.

## Summary

Thermo Scientific Barnstead stills are ideal systems for customers who need to easily and efficiently shut down their system for long periods of time, optimizing resources while reducing costs and waste.



A still can be used as a model when teaching students about the distillation process.

### Stills are ideal for routine laboratory work, including:

- Rinsing lab glassware
- Supplying autoclaves and ultrapure water systems
- Preparing and diluting buffers, reagents, and media

Find the best Thermo Scientific Barnstead still for your application.

Learn more at [www.thermoscientific.com/stills](http://www.thermoscientific.com/stills)

[www.thermoscientific.com/stills](http://www.thermoscientific.com/stills)

© 2012 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

**Australia** +61 39757 4300  
**Austria** +43 1 801 40 0  
**Belgium** +32 53 73 42 41  
**China** +86 21 6865 4588 or  
+86 10 8419 3588  
**France** +33 2 2803 2180  
**Germany national toll free** 0800 1 536 376  
**Germany international** +49 6184 90 6000

**India toll free** 1800 22 8374  
**India** +91 22 6716 2200  
**Italy** +32 02 95 05 92 54  
**Japan** +81 45 453 9220  
**Netherlands** +31 76 579 55 55  
**New Zealand** +64 9 980 6700  
**Nordic/Baltic/CIS countries**  
+358 9 329 10200

**Russia** +7 812 703 42 15  
**Spain/Portugal** +34 93 223 09 18  
**Switzerland** +41 44 454 12 22  
**UK/Ireland** +44 870 609 9203  
**USA/Canada** +1 866 984 3766

**Other Asian countries** +852 2885 4613  
**Countries not listed** +49 6184 90 6000

**Thermo**  
SCIENTIFIC

Part of Thermo Fisher Scientific