

Steam Sterilizers - Routine Control

EBI 16 ELECTRONIC BOWIE & DICK TEST

Medical Steam Sterilizers – Routine Control – EBI 16 Electronic Bowie & Dick Test

EBI 16



Description

- Steam penetration test to verify the quality of sterilization during the exposure time.
 - Temperature 134 °C
 - Time 3,5 minutes
 - Pressure 3,04 bar
- According to EN 285 **towel packages** are required for standard-compliant testing
- Requirements for alternative Bowie & Dick test methods are regulated in EN 11140. There are still no special standards for electronic B&D tests. Therefore, EN 11140-4 is used for assessment, as far as possible.

Technical data

- | | |
|---------------------|------------------------------------|
| • Measurement range | 0°C ...+150°C
1mbar...4.000mbar |
| • Accuracy: | ±0,1°C
±15mbar |
| • Resolution | 0,01°C
1mbar |
| • Battery | Lithium 3,6V, user exchangeable |



Medical

Steam Sterilizers

Based on ADA's Guidelines for Infection Control; Third Edition

Steam sterilizer performance tests

Steam sterilizers, particularly those capable of running a B class cycle, are complex machines. It is necessary to monitor that the process has met all parameters and that consequently the reprocessed instruments can be assumed to be sterile.

A range of tests must be carried out prior to commencing the first sterilizing cycle for sterilizers with a B class cycle.

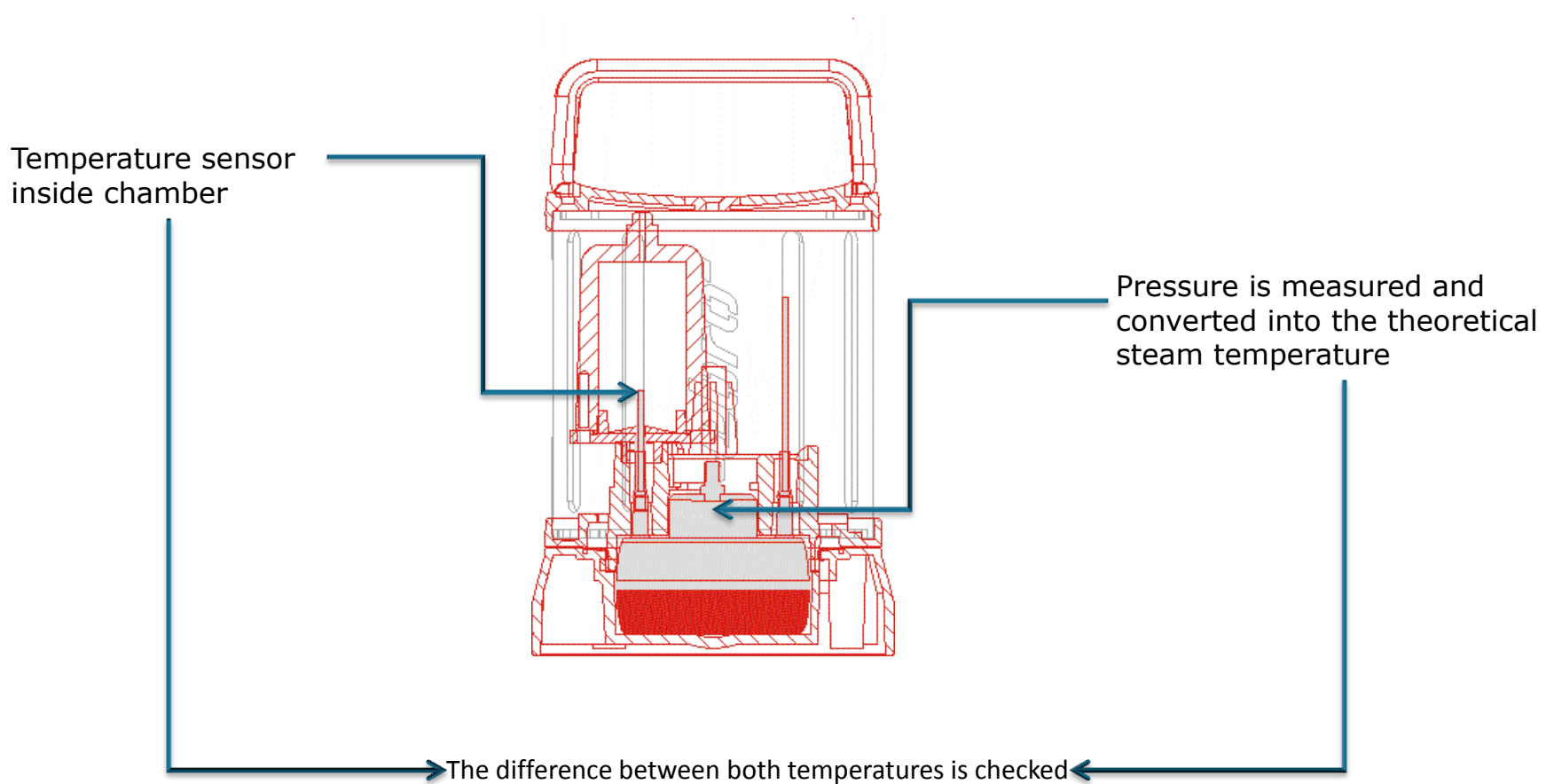
In summary these include:

- **Leak rate test** – a simple push-button operation that is built into steam sterilizers with a B class cycle.
- **Air removal and steam penetration test** (Class 2 chemical indicator) – Bowie-Dick type test for use when processing porous loads, or a process challenge device (PCD) – also known as a Helix test – for non-porous loads. For porous loads, a Bowie-Dick type test must be performed before the first sterilizing cycle of the day in order to determine whether the steam sterilizer is operating correctly in terms of its air removal capabilities. When pre-vacuum sterilizers are used to process solid or cannulated (hollow) loads using B class cycle, a daily Helix test is to be conducted.

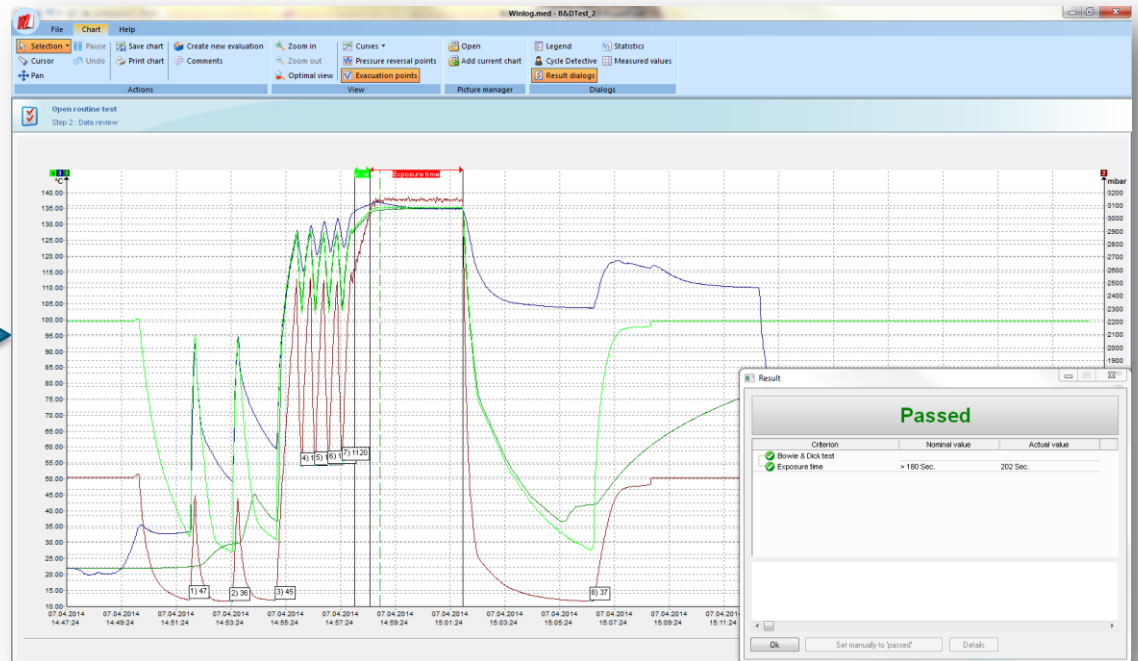
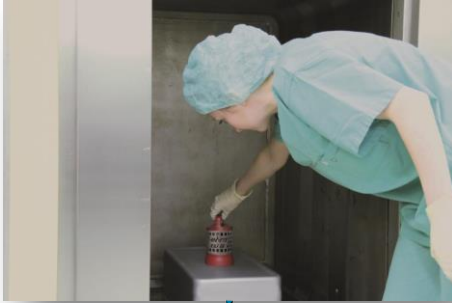
Medical Steam Sterilizers – Routine Control –

EBI 16 Electronic Bowie & Dick Test

The EBI 16 is a steam penetration test to check the sterilization quality during the exposure time.



Medical Steam Sterilizers – Routine Control – EBI 16 Electronic Bowie & Dick Test





EBI 16 Bowie Dick Test Data Logger

according to the norms EN 285 / ISO 17665

The EBI 16 forms together with the evaluation software Winlog.med or Winlog.validation an easy to use and reliable electronic measurement system.

The EBI 16 is designed to ensure the use of 1,000 cycles or 2 years without calibration or service.

Film: [Electronic Bowie Dick Test](#)

Product Description

Together with the evaluation software Winlog.med or Winlog.Validation the new EBI 16 data logger forms an easy to use and very reliable electronic measurement system. With it a comprehensive routine control of steam sterilizers can be performed using an alternative Electronic Bowie Dick Test according to DIN EN ISO 11140-4. In addition to the review of the steam penetration, the relevant sterilization parameters are controlled.

- Reliable: clear, reproducible measurement results
- Accurate: high-resolution graphical cycle display
- Secure: digital data recording and storage
- Easy: to use and evaluate

Evacuation test and steam penetration/steam quality

The EBI 16 Bowie Dick delivers clear results during daily checks of the air evacuation test and steam penetration test according to DIN EN 17665 and DIN EN 285.

Residual air test

The EBI 16 provides early identification of possible failures in steam-sterilizers. Even small quantities of residual air that doesn't lead to a failed Bowie Dick Test yet, are detected.

Vacuum check

The EBI 16 allows a reasonable vacuum check also for sterilizers without pressure display according to DIN EN 285. Verification of sterilization parameters The EBI 16 checks the sterilization parameters such as compensation time, hold time, sterilization temperature and sterilization time according to DIN EN 285.

Part No.: 1340-6697

Technical data

Measuring range	1°C ... +150°, 0 mbar ... 4.000 mbar
Accuracy	± 0.1°C, ± 15 mbar
Resolution	0.01°C, 1 mbar
Memory	6750 measurement values
Measured variables	temperature, pressure
IP Rating	IP 68
Dimensions	90 mm x 150 mm
Weight	500 g
Certificate	Factory calibration certificate