

# Dart® Daily Air Removal Test

## Daily Air Removal System

Designed to test for air removal from sterilizer chamber during pre-vacuum stage



The Dart® Daily Air Removal Test is one of the most widely recognized pre-assembled Bowie-Dick test pack products used in monitoring healthcare steam sterilizers.

The Dart test is easy to use. It's a lightweight, compact, one-piece system ready for use. You will never again have to spend time looking for towels and preparing packs. Place the Dart test on the lowest shelf over the drain, in an otherwise empty chamber. During the vacuum phase of the cycle, air is removed through the tortuous challenge chamber of the Dart test. Next, steam will enter the chemical indicator chamber during the exposure phase.

Results are immediately visible when you open the sterilizer door. If passing, the indicator bars will turn black, indicating that residual air has been completely removed, allowing complete steam penetration (see figure 1 on reverse side). A failure indicates air is trapped in the chamber and all the bars will not turn black (see figure 2 on reverse side). It's that simple. You will know the test results immediately because you can see them in the clear indicator window.

When the test is completed, simply snap off the window, slide out the chemical indicator, and record the results. Special record forms are included for your convenience.

By using the Dart test, you can eliminate all the waste associated with "paper box" products. No more shuffling through packs looking for the test results.

You can depend on the accuracy of the Dart test. It's design assures built-in consistency from test to test.



| <b>Product #</b> | <b>Description</b>          | <b>Packaging</b> |
|------------------|-----------------------------|------------------|
| • NB113          | Dart Daily Air Removal Test | 50/Case          |
| • NB215          | Dart Daily Air Removal Test | 10/Case          |
| • NB224          | Dart Record Forms           | 100/Pack         |

**Operating Parameters**

- 132°-134°C (270°-273°F) cycle temperature
- 3.5 to 4.0 minutes/cycle based on temperature setting

**Standards**

- Meets testing recommended by Association of Advancement of Medical Instrumentation (AAMI) Good Hospital Practice Steam Sterilization and Sterility Assurance
- Meets requirements of ANSI/AAMI/ISO 11140-1, Sterilization of Healthcare Products - Chemical Indicators - General Requirements
- Meets EN867-4, Non-Biological systems for use in sterilizer, Part 4, specifications for indicators as an alternative to the Bowie-Dick test for detection of steam penetration
- Meets ISO 11140-4, Sterilization of Healthcare Products - Chemical Indicators - Part 4 Class 2 indicators for steam penetration packs

**Storage Conditions**

- Store between 2°C-24°C (36°-75°F) under dry conditions

**Results**

- Easy to read

*Examples of typical pass or fail test results*



Figure 1: Pass



Figure 2: Typical Failure

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