# DRYING TIME WITH AND WITHOUT ENHANCED DRYING SYSTEM (EDS) SCIENTIFIC INFORMATION



### BACKGROUND



Drying is a critical phase of the sterilization process.1

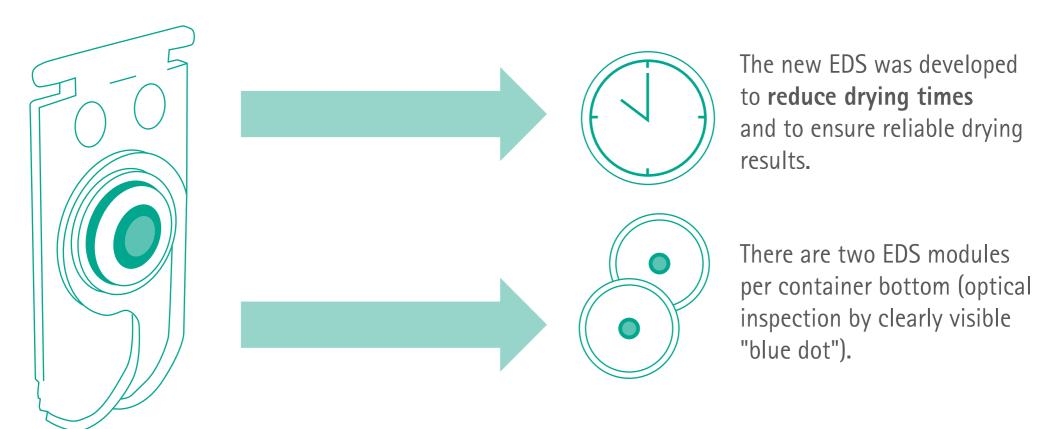


Moisture could provide a vector for microorganisms contaminating the load.<sup>1</sup>



The Association for the Advancement of Medical Instrumentation (AAMI) recommends not to use any item that is wet or a set that contains visible moisture.

### **OBJECTIVE**

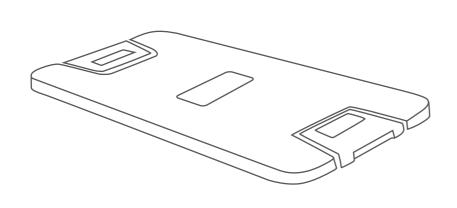


Aim of a present test was the COMPARISON of the drying time of a new container series WITH and WITHOUT EDS.

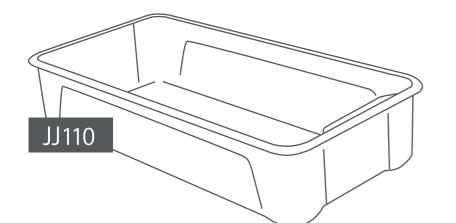
#### **TESTED MATERIALS**

 $\mathsf{AESCULAP}^{\circledast} \; \mathsf{JJ} \; \mathsf{Series} \; \mathsf{Rigid} \; \mathsf{Container} \; \textbf{JJ110}$ (processed with the JG222R basket)

### Without EDS

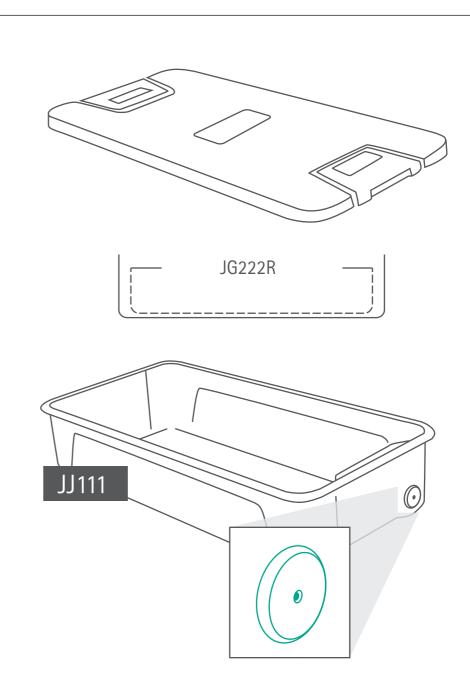




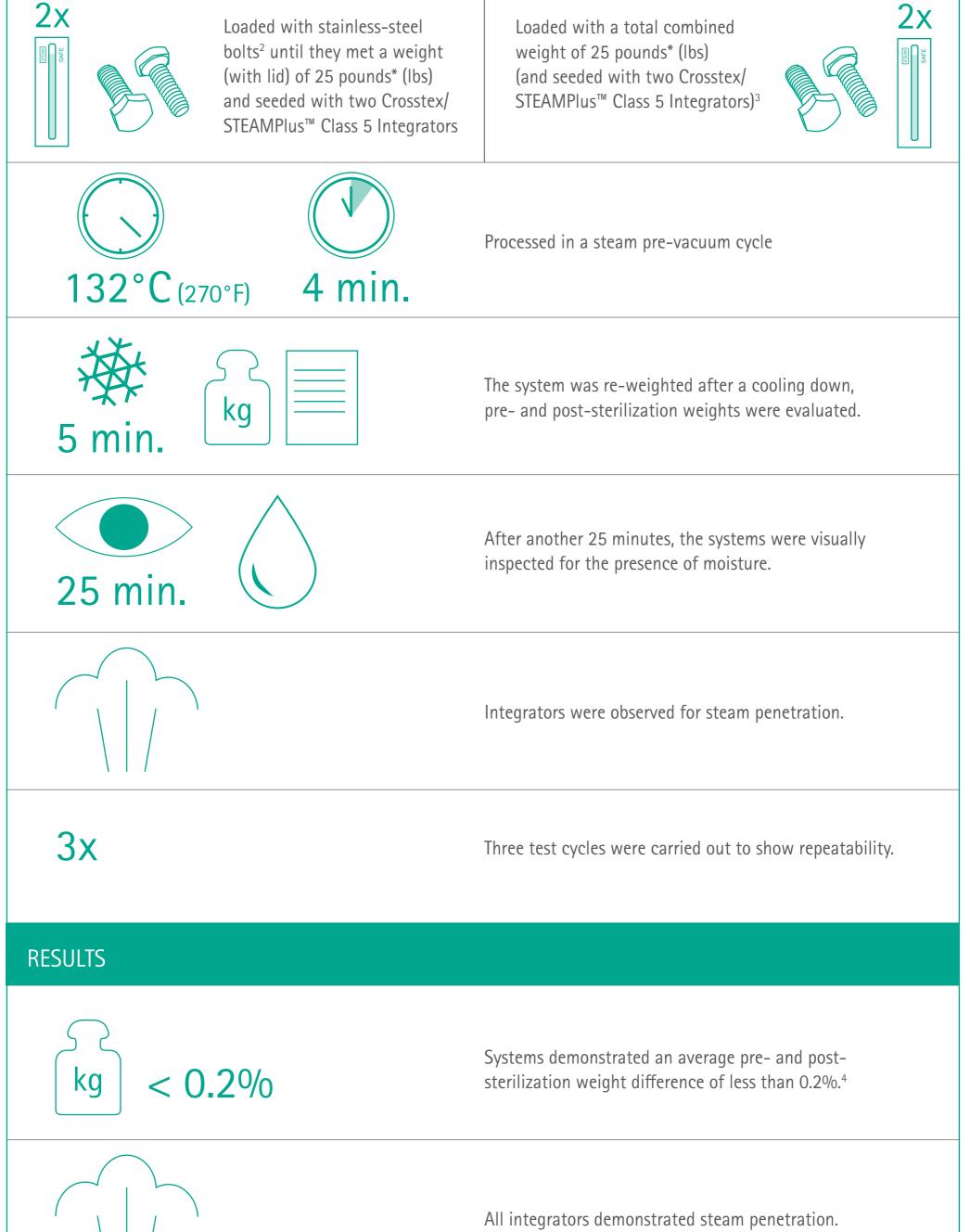


 $\mathsf{AESCULAP}^{\circledast} \; \mathsf{JJ} \; \mathsf{Series} \; \mathsf{Rigid} \; \mathsf{Container} \; \textbf{JJ111}$ (processed with the **JG222R** basket)

# With integrated EDS



### **TEST PROTOCOL**







15 min.

The **AESCULAP Aicon**<sup>®</sup> JJ110 met or exeeded the acceptance criteria (weight difference of less than 0.2%) and therefore is considered to be properly dried following the pre-vacuum steam sterilization cycle after 15 minutes.

The AESCULAP Aicon<sup>®</sup> JJ111 with EDS met or exceeded the acceptance criteria (weight difference of less than 0.2%) and therefore is considered to be properly dried following the pre-vacuum steam sterilization cycle after 9 minutes.



9 min.

#### **CONCLUSION**

It was shown that the **drying time** with the EDS can be significantly **reduced**.

Sources:

- 1 Basu D., J Infect Public Health. 2017 Mar Apr;10(2):235-239.
- 2 According to EN 868-8.
- 3 According to EN ISO 11140-1.
- 4 According to ANSI / AAMI ST 77.

\* English pound = 454 gr.