



TSE MDI Activator-16

**For the computer-controlled operation of 16 MDIs
in TSE Exposure Systems**



General

The TSE MDI Activator-16 is an investigation tool for exposure systems which allows the individual and computer controlled activation of Metered Dose Inhalers.

The main advantage of an MDI application is the usage of test substances consisting of the same compounds and generated under similar conditions like the end-product.

Application

The MDI Activator-16 is controlled and monitored via the TSE Inhalation Software. All parameters like shaking time, activation time, pausing time, filled activators, and activation pattern are entered within the application planning window of the inhalation software in a clearly structured, separate window.

Assembly

The MDI Activator-16 consists of 3 units:

A: Pneumatic shaker

The shaker will be secured to the wall of the laboratory with a supporting beam. A robust construction guarantees a durable function in spite of the large mechanical forces.

B: MDI activating units

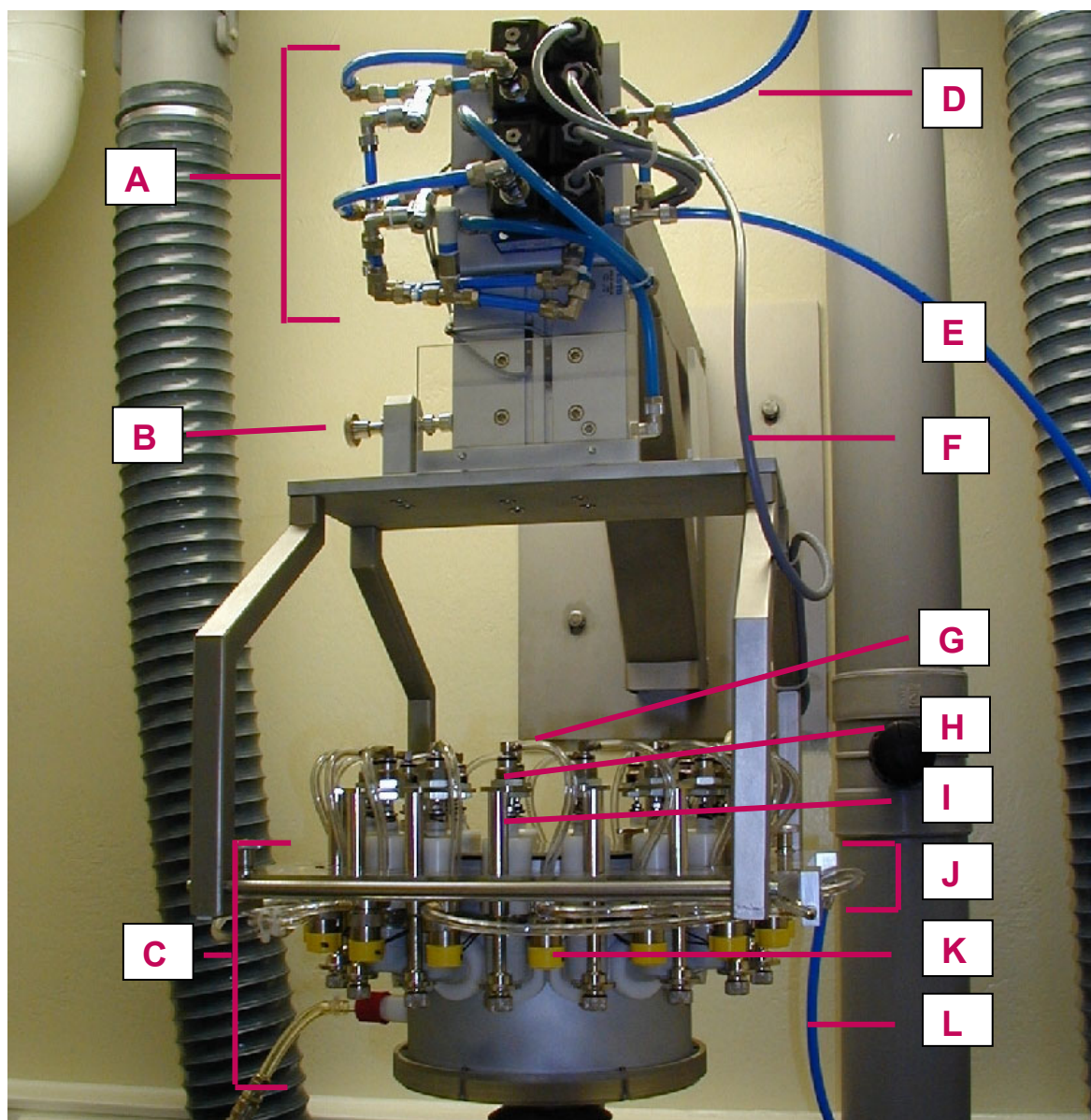
Up to 16 MDI activating units are radially positioned around a cylindrical expansion tank which is mounted in the center of a fitting plate. The fitting plate is firmly attached to the shaker.

Each single MDI has its own pneumatic activating unit which consists of a pressured air tubing, electronic valve, air cylinder and plunger. The adaptation of different sizes and types of MDI is possible.

C: Cylindrical expansion tank

The expansion tank allows the expansion of the primary aerosol generated by the metered dose inhalers. After mixing with dilution air the aerosol will be delivered into the inhalation chamber via a corrugated tubing.

Cat.No.	Description
700700-MDI-16F	MDI Activating System for software-controlled use of up to 16 MDIs (individual control)

**TSE MDI Activator**

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|--------------------------------------|--|
| A: pneumatic shaker | G: pressured air tubing for activating unit |
| B: mechanical security lock | H: air cylinder |
| C: cylindrical expansion tank | I: plunger |
| D: primary air tubing | J: fitting plate |
| E: air tubing | K: valve |
| F: control cable | L: air tubing |

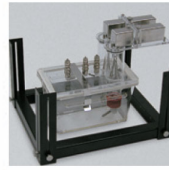


■ Inhalation

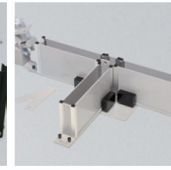
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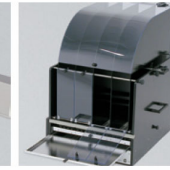
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– Specifications subject to change without notice –