

PRODUCT INFORMATION SHEET

Dual-Spray MiniSpacer®

For Metered Dose Inhalers

PRODUCT DESCRIPTION:

- **Clean, Ready to Use**
- **For Single Patient Use Only**

The Dual-Spray MiniSpacer® offers an effective and convenient way to administer MDI drugs in a ventilator circuit. The patented Dual-Spray nozzle forms a bi-directional aerosol plume, improving delivery of the MDI medication. When used inline, the MiniSpacer eliminates drainage problems. When used at the endotracheal tube, it minimizes deadspace. The MiniSpacer performs like a spacer with the cost-effectiveness of an adapter.

SPECIAL FEATURES:

- **Dual-Spray Nozzle:** Upon actuation of the MDI canister, the drug plume sprays in both directions. The amount of drug impinging on the walls of the tubing is minimized and the evaporation of MDI propellant is enhanced. The result is that more drug is available to the patient. The Dual-Spray MiniSpacer® outperforms single-spray MDI adapters of the same size.
- **Multi-MDI port:** The MDI port is functional with virtually all MDI canisters. An attached cap closes the system between MDI treatments. Compact and versatile, the MiniSpacer is designed for convenient MDI drug administration.
- **Multiple Sizes:** The MiniSpacer is available in three sizes:
 - 22 mm O.D. x 22 mm O.D. for inline placement back from the wye
 - 22 mm O.D. x 22 mm I.D. for inline placement at the wye
 - 15 mm O.D. x 15 mm I.D. for placement between the wye and the endotracheal tube, or in pediatric circuits

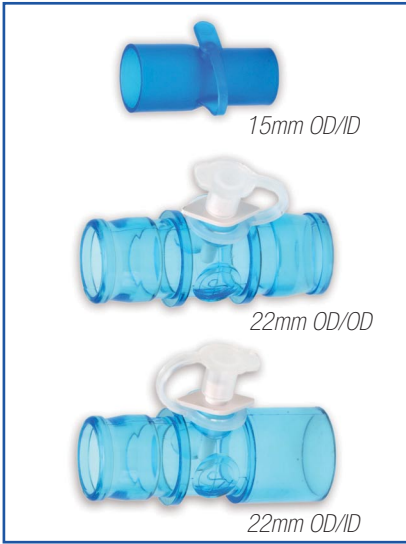
NOTE:

The MiniSpacer may also be used with resuscitator bags, inline with cool or heated humidified oxygen enriched T-piece (blow-by) systems connected to tracheal/endotracheal tubes, or inline with incentive spirometers

ORDERING INFORMATION/PRICING:

| REF | Description |
|--------|-----------------------|
| TH1024 | 22mm OD/OD: Box of 30 |
| TH1025 | 22mm OD/ID: Box of 30 |
| TH1071 | 15mm OD/ID: Box of 30 |





MiniSpacer®

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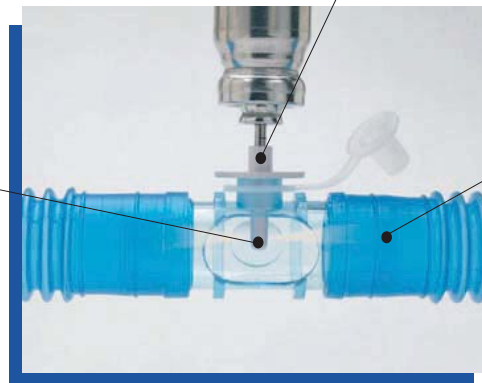
These benefits are available without sacrificing performance or cost as the device has been shown to have comparable dose output with most alternative devices. Yet, its cost is comparable to less efficient devices.

The MiniSpacer performs like a spacer with the cost-effectiveness of an adapter.

| Feature | Benefit | MiniSpacer | Other MDI Delivery Devices |
|----------------------------|--|---|--|
| Dual Spray Nozzle | Allows the MDI plume to develop within greater area. Increases dose output and reduces drug rainout. | Fixed dual spray nozzle | All single spray devices |
| Small Size/ Low Profile | Reduces weight on circuit; less chance for condensate buildup; lower cost | Device is generally same diameter as circuit itself; no condensate buildup; price is competitive to much larger devices | Most devices are much larger increasing cost and opportunity for large volumes of condensate buildup in circuit. |
| Dose Output | Indication of amount of drug delivered through the device to the patient | Independent study* showed that the MiniSpacer® performs as well as, if not better, than most alternative devices and at a lower overall cost to the customer. | |

MiniSpacer® Features/Benefits

Dual Spray Nozzle:
The unique dual spray nozzle allows the MDI plume to develop over a greater area which reduces circuit impaction and increases drug delivery.



Universal Port: Port on the MiniSpacer designed to accommodate virtually all MDI canisters. Keeps circuit closed at all times.

Low Profile/Multiple Sizes:
The MiniSpacer's small size reduces the weight on the circuit and condensate buildup. Comes in three different size configurations to allow one to place it in various locations within the ventilation circuit.