



## Midisart® 2000

Ready-to-use filter for sterilizing gases and venting

### Product Information

The Midisart® 2000 is the best choice for small-scale sterile air | gas filtration applications. Superior flow rates and seamless integration into single-use assemblies provide Midisart® customers with a distinct advantage that directly translates into cost savings. Individual 100% factory integrity testing verifies the quality of every filter prior to use. Moreover our new production-line with its enhanced capacity ensures a quick and reliable supply at any time.



### Applications

Midisart® are excellent for

- Sterile venting of filling vessels and fermentation carboys, including culture vessels and CO<sub>2</sub> incubators (6 to 120 liters)
- Venting of holding tanks for sterile, distilled water and liquid culture media
- Autoclave venting
- In-line sterilization of and particulate removal from air and gases, such as sterilization of air for small fermenters

### Flexibility

Midisart® 2000 were designed for maximum handling ease and safety. Tapered hose barbs ensure a simple and secure hold for 6- to 12-mm inner diameter tubing. Other connector types such as small hose barb (for tubings with 4 – 12 mm inner diameter), 8" NPT thread and TriClamp are also available. Midisart® is lightweight – only 20 g – so it will not weigh down or kink the tubing.

### Reliability and safety

Midisart® 2000 is integrity testable and delivers reproducible results. The membrane is reinforced with polypropylene gauze, giving the Midisart® unit added stability and making it pressure resistant up to 3 bar | 44 psi. Midisart® 2000 entirely eliminates moisture breakthrough because of its inherently hydrophobic PTFE material. In addition, Midisart® is bio safe because all materi-

als of construction meet the requirements of the current USP Plastics Class VI testing. Midisart® 2000 units easily withstand at least 20 autoclaving cycles with no loss in performance.

### Quality Control

Each Midisart® 2000 is tested by integrity prior to release. This 100% test has been defined as the final release criteria. The lot number and the individual unit number are lasered on the top part of each Midisart® 2000 housing to ensure complete traceability.

### Performance

With a diameter measuring just 64 mm, Midisart® incorporates a filter area of 20 cm<sup>2</sup>, which means that it is "packed" with high flow rate performance power. Midisart® multiply filtration performance in more ways than one.

### Lot Number and Individual Unit Number

Lasered on the top part of each Midisart® - housing.

### Integrity Testing

Midisart® 2000 filters can be integrity tested (Bubble Point Test, 60% IPA, BP<sub>min</sub>. = 1.1 bar). The Midisart® Test Manifold (Order code 1Z-LB-0002) can be used to test 10 filters in parallel which simply leads to a reduction of test time by 90%.

## Technical Data

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### Specifications

#### Materials

Membrane PTFE – reinforced with polypropylene gauze  
Housing Polypropylene

#### Pore Sizes

0.2 µm  
0.45 µm

#### Filtration Area

20 cm<sup>2</sup> | 3 square inch

#### Housing diameter

64 mm | 2,5"

#### Connectors

Hose Barb, 1/8" NPT, Triclamp, small Hose Barb

#### Biosafety

Materials pass current UPS Plastics, class VI  
Non fiber releasing according to 21 CFR

#### Sterilization

Max. Temperature 134°C  
Max. Autoclaving 60 Cycles  
Not suitable for gamma irradiation  
Gamma stable: see Midisart® BV

### Technical References

#### Validation Guide

SLD5702-e

DOMINIQUE DUTSCHER SAS

## Ordering Information

| Order No.     | Pore Size [µm] | Membrane | Connectors                        | Qty. | Sterile |
|---------------|----------------|----------|-----------------------------------|------|---------|
| 17804-----E   | 0.45           | PTFE     | Hose Barb   Hose Barb             | 12   | Yes     |
| 17804-----G   | 0.45           | PTFE     | Hose Barb   Hose Barb             | 25   | Yes     |
| 17804-----NPE | 0.45           | PTFE     | 1/8"   1/8" NPT                   | 12   | Yes     |
| 17804-----NPG | 0.45           | PTFE     | 1/8"   1/8" NPT                   | 25   | Yes     |
| 17805-----E   | 0.2            | PTFE     | Hose Barb   Hose Barb             | 12   | Yes     |
| 17805-----G   | 0.2            | PTFE     | Hose Barb   Hose Barb             | 25   | Yes     |
| 17805-----NPE | 0.2            | PTFE     | 1/8"   1/8" NPT                   | 12   | Yes     |
| 17805-----NPG | 0.2            | PTFE     | 1/8"   1/8" NPT                   | 25   | Yes     |
| 17805-----UPN | 0.2            | PTFE     | Hose Barb   Hose Barb             | 100  | No      |
| 17805-----UPQ | 0.2            | PTFE     | Hose Barb   Hose Barb             | 500  | No      |
| 17805-----UQN | 0.2            | PTFE     | Hose Barb   Hose Barb             | 100* | No      |
| 17809-----UNN | 0.2            | PTFE     | 1/8"   1/8" NPT                   | 100  | No      |
| 17812-----UNN | 0.2            | PTFE     | 1/8"   Hose Barb                  | 100  | No      |
| 17805-----TCN | 0.2            | PTFE     | TriClamp   TriClamp               | 100  | No      |
| 17877-----UPN | 0.2            | PTFE     | Small Hose Barb   Small Hose Barb | 100  | No      |

\* = plastic bucket – the bucket with its smooth surface can be easily transferred into clean-room areas without risking particle release from the packaging material.



Standard Hose Barb



Small Hose Barb



1/8" NPT Thread



TriClamp

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