

### Breathing System Filter

- Pleated hydrophobic membrane
- High efficiency bacterial and viral filtration
- Smooth housing profile
- Optimal humidification
- Compatible with nebulization
- 100% retentive for liquid-borne contaminants
- Retains natural rubber latex allergens in solutions and in airborne particles
- Individually integrity and efficiency tested during manufacture

#### Product Features

- **Optimal humidification:** Physiological levels of humidification are maintained, even at high flow rates and in long term ventilation. Clinical humidification performance is comparable to hot water bath systems and hygroscopic HMEs<sup>1,2,3,4</sup>. Rheological and physical properties of patient airway mucus are preserved and physiological mucus clearance is maintained<sup>5</sup>.
- **Compatible with nebulization:** Medications can be nebulised between the filter and the patient.
- **Effective hydrophobic barrier:** The pleated hydrophobic membrane provides effective protection against airborne and liquid-borne micro-organisms. This assures protection against cross-contamination between patients in anaesthesia<sup>6,7,8</sup> and can contribute to a reduction of ventilator associated pneumonia in long term intensive care ventilation<sup>4</sup>. The filter has been validated to remove *Mycobacterium tuberculosis*<sup>9</sup>, *Staphylococcus aureus*<sup>10</sup>, Hepatitis C virus<sup>7</sup> and HIV<sup>11</sup> and Influenza A Virus<sup>12</sup>. All Pall Breathing System Filters contain the proprietary Pall fine hydrophobic filter media, which has been tested in manufacturing to show a water intrusion pressure (hydrophobicity) in excess of 50 cm water column.

Routine use of the Ultipor 100 will protect the interior of the breathing system from patient derived contamination, allowing extended use of the breathing system in conjunction with a hospital protocol that



ensures hygienic and mechanical integrity of the system. Please refer to your breathing system manufacturer for information on whether the system being used has been validated for extended use.

- **Extended life:** When nebulization is not used.
- **Latex safety:** The Ultipor 100 filter is not made with natural rubber latex. It has been tested to show retention of natural rubber latex allergens in liquids and contained in airborne particles<sup>13,14</sup>.

#### Pall Total Quality and Performance Guarantee

Each Pall Ultipor 100 Breathing System Filter is individually tested during manufacture for:

**Filter Integrity** - assuring housing and seal quality.

**Filtration Efficiency** - using a non-destructive test, assuring membrane quality.

A Product Validation Certificate that is batch and customer specific can be provided to show details of testing and validation. This is the customer's guarantee of 100% reliability, performance in use and assurance of protection of breathing systems and equipment, patients and staff.

# Pall Ultipor 100 Performance

## Specifications

### Filter material

Pleated hydrophobic membrane

### Liquid-borne bacterial/viral removal efficiency

100%

### Bacterial / viral aerosol removal efficiency

> 99.999% / 99.999%

### NaCl penetration (ISO23328-1: 2003):

0.006%

### Humidification

Water loss: 8 mg/L up to 800 mL tidal volume

Water loss: 9.5 mg/L @ 800 – 1000 mL tidal volume

### Resistance at 60 L/min

Approximately 2 cm water column

### Construction

Transparent, non-conductive

### Connections (ISO tapers)

Patient side 15 mm ID 22 mm OD

Breathing system side 22 mm ID

### Filter volume

Approximately 85 mL

### Weight

Approximately 47 g

### Recommended use

24 hr change. Use may be extended to 48 hr when nebulisation is not used. Single use, patient end only

## Ordering Information

Reorder Code	Description	Packaging
<b>BB100A</b>	Pall Ultipor 100 Breathing System Filter	50 units per case
<b>BB100AF</b>	Pall Ultipor 100 Breathing System Filter with Flex tube	50 units per case

## References

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