



RT019 – Inspiratory/Expiratory Filter

The introduction of the RT019 filter allows the use of the same high performance filter on either the inspiratory or the expiratory port of the ventilator.

In terms of filtration and performance characteristics, the RT019 Inspiratory/Expiratory filter is identical to the RT020 End Expiratory Filter.

Although identical to each other, regulatory requirements for the introduction of an inspiratory/expiratory filter have necessitated the introduction of a new part number for this application, the RT019.

Integral to the performance of the filter is a unique 'double walled shell.' The outer shell creates an insulating air gap, which greatly reduces condensation of expired humid gas inside the filter. Less condensation means the RT020 filter remains dryer, optimising high filtration performance characteristics, for longer.

The RT019 Inspiratory/ Expiratory Filter from Fisher & Paykel Healthcare is a high performance single-patient-use filter compatible with all 22mm ISO connecting circuits.

RT019 inspiratory application

Placed on the inspiratory outlet port of the ventilator, the filter protects the patient from incoming airborne contaminants. It also protects the ventilator from moisture during periods of reverse flow that may occur in an inspiratory only circuit system.

RT019 expiratory application

The RT019 Filter is designed to prevent contamination of the ventilator and surrounding environment during use as an expiratory filter.

Aerosols from nebulisers as well as airborne bacteria and viruses from the patient in the exhaled gas are retained by the electrostatic filter media. In this way the ventilator is kept clear of contamination from pathogens and ventilator flow sensors are protected from debris that could otherwise compromise flow sensor accuracy.



Fig.1. The RT019 Inspiratory/Expiratory filter has a unique dual wall that insulates the gas to greatly reduce condensate accumulation when using heated wire circuits.