



CERTAIN-PORE

CTL Type

Major Applications

Gas filtration and sterilization

Tank vent, Fermentation air,
Positive pressure air, N₂ gas, CO₂ gas

Quality standards

- Adaptable Food Sanitation Standard
 - FDA 21 CFR
 - EC No.1935/2004, EU No.10/2011
- Heat sterilization durability
 - 142°C (287.6°F) x 30 minutes x 250 cycles
 - Positive pressure: 200 cycles,
 - Back pressure : 50 cycles
- Integrity tested by diffusion test
- Traceability by lot number

Features

- Bacterial challenge test with *Brevundimonas diminuta* (ATCC 19146) in liquid and aerosol
- Hydrophobic PTFE membranes with low pressure drop and high airflow
- Use of highly durable materials that are less likely to be damaged by heat

Advantages

- Gases can be filtered and sterilized.
- High air supply efficiency
- Can be used repeatedly for high temperature in-line steam
- Can be used for a long time in a high temperature environment

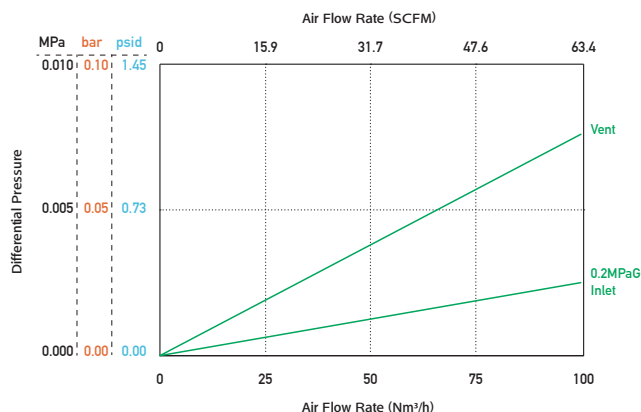
Specifications

Grades		002
Micron Ratings		Liquid: 0.2 μm, Gas: 0.003 μm
E.F.A.		0.81m ² /250mm
Materials	Media	Hydrophobic PTFE Membrane
	Core/Cage/Support	Polypropylene
	End Cap	Polypropylene
Maximum ΔP		0.53MPa at 40°C (76.9psi at 104°F)
Dimensions	Length	125 / 250 / 500 / 750 mm
	O.D.	70.0mm
	I.D.	29.5mm
Available sterilization methods		Inline steam, Autoclave
Inline steam sterilization		142°C (287.6°F) x 30 minutes x Positive pressure: 200 cycles, Back pressure: 50 cycles

*If you need further information on specifications (length, end cap type, etc.), please contact us.

Differential Pressure vs Flow Rate

Fluid: Air / Cartridge Length: 250mm



*SCFM: Temperature 21.1°C (70°F), Humidity: 0% RH, Standard pressure (101.3kPa)

Particle Removal Efficiency (Gas)

0.003 μm : >99.999%

* NaCl (>0.003 μm) CNC particle analysis.

Microbial removal performance

	Biological Indicator	LRV*
Liquid	<i>Brevundimonas diminuta</i> (ATCC 19146)	>7
Aerosol	<i>Brevundimonas diminuta</i> (ATCC 19146)	>7

*LRV represents Log Reduction Value (Refer to JIS K3835)

*Bacterial challenge level is more than 1×10^7 CFU/cm².

Estimated continuous use period by operating temperature

60°C (140°F) hot air 12 months

Ordering Information

Length	Product Type	Micron Rating	O-Ring	End Cap Code	Packaging Code
2 5 0 L	-CTL-	002	J	7	B
▼		▼	▼	▼	▼
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		0.2 μm	Steam Resistant Silicone	6 = 2-226 O-Ring 7 = 2-226 O-Ring + Fin 8 = 2-226 O-Ring + Fin	A = 1pc B = 6pcs C = 10pcs F = 25pcs

End Cap Code

Code 6



Code 7



Code 8



*The contents of the catalog are subject to change without notice.

*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

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For our technical information, please click here.▼



Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope

Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



11th Issue
CTL200602LE