



SHAOXING *CARERE MEDICAL*

APPLIANCE CO., LTD

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[http:// www.crrmedical.com](http://www.crrmedical.com)

Technical Requirement of Breathing Filter

1.Description

Disposable Breathing System Filter

Model:

Bacterial filter

HEPA filter

HME trach filter

HMEF filter

HMEF with catheter mount

2. Appearance

2.1 Disposable breathing system filters are composed of two shells, luer cap, PP filtrate film ,moisture paper, moisture foam.

3. Material and Composition

The shells are made from medical high molecular material PP or K-resin, luer cap is made from medical high molecular material TPR.

4. Specification and Schematic Diagram



CODE	CRR401BF	CRR402BF	CRR403BF
Description	BVF-01	BVF-02	BVF-03
Dead space	30ml	30ml	35ml
Pressure drop@30LPM	60Pa	60Pa	60Pa
Moisture output	/	/	/
Bacterial filtration efficiency	99.999%	99.999%	99.999%
Viral filtration efficiency	99.999%	99.999%	99.999%
Weight	23g	23g	23g
Connections	22M/15F-22F/15M	22M/15F-22F/15M	22M/15F-22F/15M
Gas Monitoring	Yes	No	Yes

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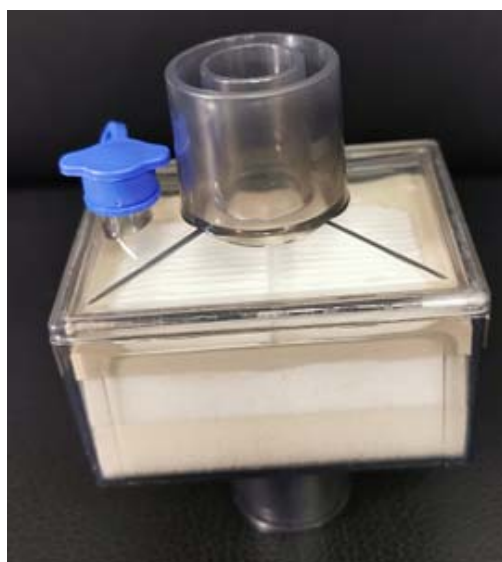
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CODE	CRR401HP
Description	HEPA-01
Dead space	70ml
Tidal volume range	150-1500ml
Pressure drop@30LPM	100Pa
Moisture output	/
Bacterial filtration efficiency	99.9999%
Viral filtration efficiency	99.9999%
Weight	37g
Connections	22M/15F-22F/15M
Gas Monitoring	Yes



CODE	CRR402HP
Description	HEPA-HME-02
Dead space	70ml
Tidal volume range	150-1500ml
Pressure drop@30LPM	100Pa
Moisture output	/
Bacterial filtration efficiency	99.9999%
Viral filtration efficiency	99.9999%
Weight	36g
Connections	22M/15F-22F/15M
Gas Monitoring	Yes



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CODE	CRR401HT	CRR402HT	CRR403HT	CRR404HT
Description	HME Trach basic with foam	HME Trach basic with paper	HME Trach double with foam	HME Trach double with paper
Dead space	16ml	16ml	16ml	16ml
Pressure drop@30LPM	50Pa	50Pa	50Pa	50Pa
Moisture output	24mg@500VT	24mg@500VT	24mg@500VT	24mg@500VT
Tidal volume range	200-1000ml	200-1000ml	200-1000ml	200-1000ml
Weight	5g	9g	7g	5g
Connections	15F	15F	15F	15F



CODE	CRR401SF
Description	Spirometry filter
Dead space	75ml
Media type	Electrostatic
Bacterial filtration efficiency	99.999%
Viral filtration efficiency	99.999%
Pressure drop@30LPM	20Pa
Option	Mouth piece
Weight	48g
Connections	30F/25M



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CODE	CRR400HF	CRR401HF	CRR402HF	CRR405HF	CRR406HF	CRR407HF
Description	HMEF Infant	HMEF Child	HMEF Adult	HMEF Adult	HMEF Adult	HMEF Adult
Material Type	PP+Paper	K-resin+Paper	K-resin+Paper	PP+Paper	PP+Paper	PP+Paper
Dead space	10ml	12ml	40ml	35ml	40ml	60ml
Tidal volume range	50-100ml	150-300ml	150-1500ml	150-1500ml	150-1500ml	300-1500ml
Pressure drop@30LPM	100pa	120Pa	100Pa	100Pa	100Pa	100Pa
Moisture output	26mg@50VT	24mg@500VT	32mg@500VT	32mg@500VT	32mg@500VT	34mg@500VT
Bacterial filtration efficiency	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%
Viral filtration efficiency	99.999%	99.999%	99.999%	99.999%	99.999%	99.999%
Weight	8.5g	15g	30g	25g	25g	31g
Connections	15M/8M-15F	22M/15F- 22F/15M	22M/15F- 22F/15M	22M/15F- 22F/15M	22M/15F- 22F/15M	22M/15F- 22F/15M
Gas Monitoring	Yes	Yes	Yes	Yes	Yes	Yes



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CODE	Configuration
CRR421HC	Adult HMEF+15cm expandable tubing with 22F connector &22M/15F connector
CRR422HC	Adult HMEF+15cm expandable tubing with 15M connector &22M/15F connector
CRR423HC	Pediatric HMEF+15cm expandable tubing with 22F connector &22M/15F connector
CRR424HC	Pediatric HMEF+15cm expandable tubing with 15F connector &22M/15F connector
CRR425HC	Adult HMEF+15cm expandable tubing with 22F connector &22M/15F connector, red cap
CRR426HC	Adult HMEF+15cm expandable tubing with 15M connector &22M/15F connector, red cap
CRR427HC	Pediatric HMEF+15cm expandable tubing with 22F connector &22M/15F connector, red cap
CRR428HC	Pediatric HMEF+15cm expandable tubing with 15F connector &22M/15F connector, red cap



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5. Leakage

Leakage shall not exceed 25ml/min at pressure 7 Kpa.

6. Biological Performance

7.1 Anesthesia breathing circuit should be sterile.

7.2 Anesthesia breathing circuit should be sterilized by EO, after 7 days, the remaine of EO should be less than 10ug/g.

7.Storage conditions

Store in a dark, cool and dry place.