Vincent Medical

Breathing Fresh
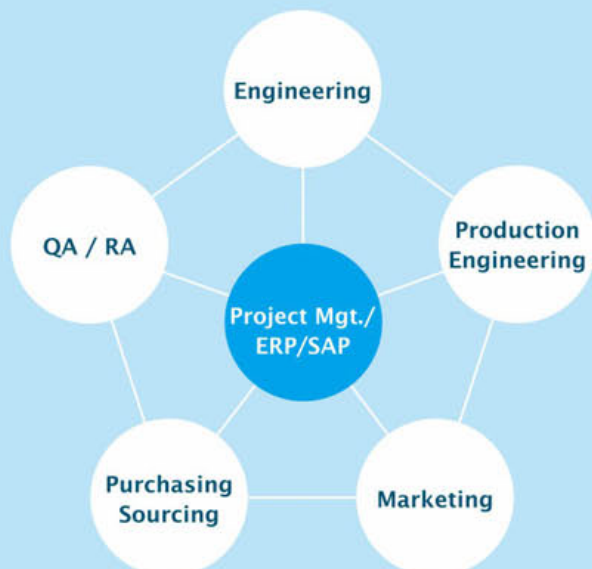### *Get Inspired.*

Inspired Medical
Respiratory Supplies

Why Partner with Vincent Medical?

- **Global Experience:** Manufacturing for leading medical products companies in the United States, EU, Japan, S.E. Asia

- **Hong Kong Corporation / China Operation:** Providing the optimum from "one-country, two systems" in communications, logistics, an established legal framework, management and controls.

- **Qualified Manufacturing Environment:** Class 100,000 clean rooms, controlled environments and white room facilities.

- **High quality:** ISO9001, ISO13485, ISO14971 and CE MDD certified. FDA and CFDA registered, compliance with GMP and JGMP requirements.

- **Reliable:** Sophisticated project management and ERP (SAP) system to ensure timely delivery and accurate budgeting.

Engineering

Production Engineering

Project Mgt./ ERP/SAP

QA / RA

Marketing

Purchasing Sourcing

History

1985 Vincent Raya established as contract manufacturer for home appliance.

1988 Main factory moved to Guang Dong Province, China.

Guangdong Province
DongGuan

1997 Vincent Medical established, focused exclusively on medical disposable and reusable respiratory products.

1999 Setup United States sales office in C.A. US.

2001 Install a world class EtO Sterilizer System from US.

2002 ISO11135 / EN550 / cFDA / CE certified.
ISO9001 & ISO13485 certified.

2008 Set up own Microbiological Laboratory fulfill GMP standards.

2009 The 1st Hong Kong medical device company that certified for ISO14971 risk management standards.
JGMP certified.

2010 Install second EtO Sterilizer System from France.

2010 Setup China Sales Office.

2011 Setup a new 5 storeys of new production building with total 160,000 square meter.

2012 2 New R&D Center setup in GuangZhou and HK.

2013 VM awarded as Grade A quality credit by cFDA and C-TPAT renewal.

2014 More than 10 new products attained China Patent.

Hong Kong Corporation.
China Operation.
Global Facilitation.

Vincent Medical is a Hong Kong company with factory locates in Dong Guan area of China, which manufacturing I, II, III devices for worldwide markets. The factory covers an area of 60,000m2, in which 25 buildings are serving administrating, production, office, warehousing, lab, ETO sterilizer. With offices are in Hong Kong, China and US, our platform serves OEM leading multi-national medical device companies. Also, we market our own brand "Inspired Medical" respiratory products all over the world.

Innovative
Combine cutting edge with existing technology integration to new products for better serving for clinical application.

Quality
Full international recognized quality system and continuously striving for the optimal product quality in manufacturing process.

Reliability
The business partner you can trust and to work well with altogether.

Facilities

Class 100,000 clean room environment

- Over 52,000 sq.m. facility on 60,000sq.m. of land
- Plastic injection molding
- Medical tubing extrusion & corrugation
- Blow molding
- Clean room assembling/testing
- Ultrasonic, high frequency & heat welding
- Automation Assembling
- Clean room laser cutting
- Vacuum forming packaging
- Clean Room Pad & silk screen printing
- Packaging, labelling, bar-coding
- Medical Electronic assembly

Other environment

- Die-cutting
- Metal stamping shop
- Injection mold construction shop
- Cut and sew (Orthopedics & Rehabilition Medical Products)
- On-site EtO sterilization (AAMI / AANSI)

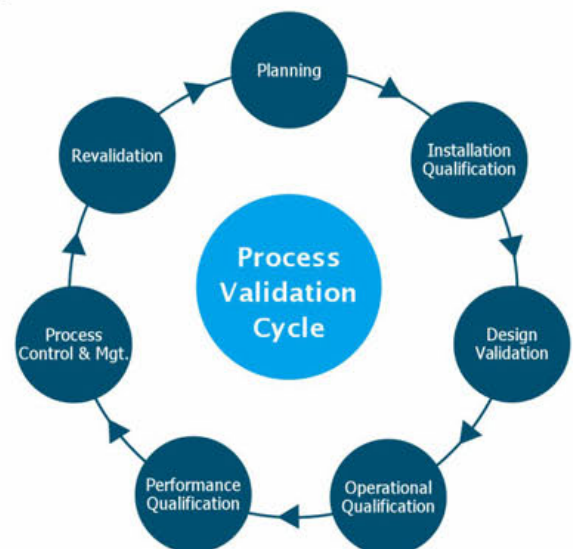# Registrations and Certificates

- ISO9001

- ISO13485

- ISO14971

- PRC cFDA

- U.S. QSR GMP

- JGMP

- Hong Kong Department of Health

- CE

- CTPAT, Customs-Trade Partnership Against Terrorism

Quality Systems

Vincent Medical's quality control & assurance procedures optimize consistent output to provide a safe, proven, repeatable product. Our comprehensive Quality Assurance program includes:

- Injection mold qualification & validation
- Incoming inspection and monitoring of all raw materials
- In-process monitoring and verification of manufacturing process
- 100% FQC and sampling OQA and testing
- Line patrolling inspection with sampling
- Statistical process control & C.I.P.
- Rigid compliance to documentation
- Adhere to ISO9001, ISO13485 and ISO14971
- Document Control Center (DCC) for keeping DHF, DMR and DHR for traceability

Process Validation Cycle:
- Planning
- Installation Qualification
- Design Validation
- Operational Qualification
- Performance Qualification
- Process Control & Mgt.
- Revalidation

Quality Assurance

Microbiological and Analytical Testing

- Product sterility testing
- Bioburden testing
- Environmental monitoring
- Bacterial endotoxic testing (LAL)
- Biological Indicator (BI) sterility testing
- Compliance with GMP standards
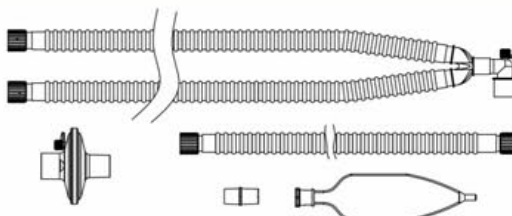
Our Advantages

R&D Center and Strong Engineering Team

- Own R&D center and engineering support team consists of 50 engineers formally trained in mechanical, electrical, biomedical, and cut & sew discipline
- Joined R&D program with medical university and clinical support from hospitals
- In-house design capability includes 3D modeling and utilizes Solidworks and ProE programs where applicable.
- In-house Rapid Prototype Machine for design verification
- Proceed Risk Analysis with DFMEA (Design Failure Mode Effect Analysis)
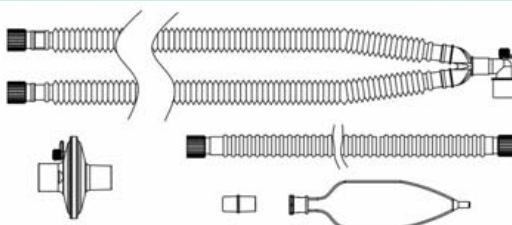
Adult Anaesthesia Breathing Systems

with parallel wye and gas sampling elbow

System with Drapable Tubing

FSC No.	Part No.	Configuration	Box Quantity
504-001	50404300	1.0m hoses	15
504-001	50404900	1.0m hoses, 3L breathing bag	15
504-001	50405000	1.0m hoses, 3L breathing bag, bacteria filter	15
504-001	50405200	1.5m hoses	10
504-001	50405800	1.5m hoses, 3L breathing bag	10
504-001	50405900	1.5m hoses, 3L breathing bag, bacteria filter	10
504-001	50425000	1.5m hoses, 3L breathing bag, bacteria filter & 1.5m spare limb (green)	10
504-001	50421000	1.8m hoses	10
504-001	50425100	1.8m hoses, 3L breathing bag	10
504-001	50425200	1.8m hoses, 3L breathing bag, bacteria filter	10
504-001	50425300	1.8m hoses, 3L breathing bag, bacteria filter & 1.5m spare limb (green)	10

System with Expandable Tubing

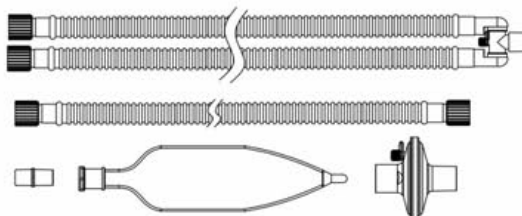| FSC No.	Part No.	Configuration	Box Quantity
504-004	50415100	1.8m hoses	40
504-004	50415700	1.8m hoses, 3L breathing bag	40
504-004	50415800	1.8m hoses, 3L breathing bag, bacteria filter	40
504-004	50425400	1.8m hoses, 3L breathing bag, bacteria filter & 1.8m spare limb (clear)	40
504-004	50416000	2.4m hoses	40
504-004	50416600	2.4m hoses, 3L breathing bag	40
504-004	50416700	2.4m hoses, 3L breathing bag, bacteria filter	40

* The filter (P/N 50421500) and latex-free breathing bag are used.
* 1.0m, 1.5m, 1.8m, 2.4m, 3.0m length for choice
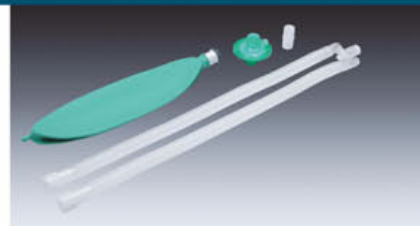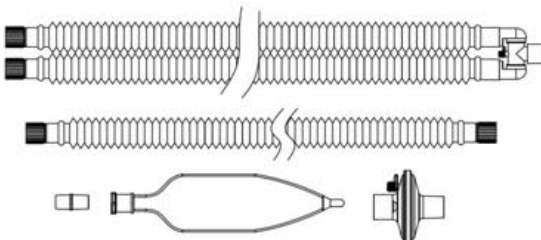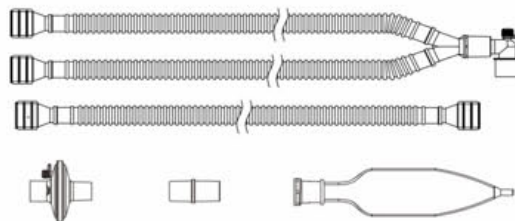
Adult Anaesthesia Breathing Systems

with swivel wye and gas sampling port

System with Drapable Tubing

FSC No.	Part No.	Configuration	Box Quantity
504-001	50408800	1.5m hoses	10
504-001	50409400	1.5m hoses, 3L breathing bag	10
504-001	50409500	1.5m hoses, 3L breathing bag, bacteria filter	10
504-001	50425600	1.5m hoses, 3L breathing bag, bacteria filter & 1.5m spare limb (green)	10

System with Expandable Tubing

FSC No.	Part No.	Configuration	Box Quantity
504-004	50425700	1.8m hoses	40
504-004	50425800	1.8m hoses, 3L breathing bag	40
504-004	50425900	1.8m hoses, 3L breathing bag, bacteria filter	40
504-004	50426000	1.8m hoses, 3L breathing bag, bacteria filter & 1.8m spare limb (clear)	40
504-004	50426100	2.4m hoses	40
504-004	50426200	2.4m hoses, 3L breathing bag	40
504-004	50426300	2.4m hoses, 3L breathing bag, bacteria filter	40
504-004	50426400	2.4m hoses, 3L breathing bag, bacteria filter & 1.8m spare limb (clear)	40

* The filter (P/N 50421500) and latex-free breathing bag are used.
* 1.0m, 1.5m, 1.8m, 2.4m, 3.0m length for choice
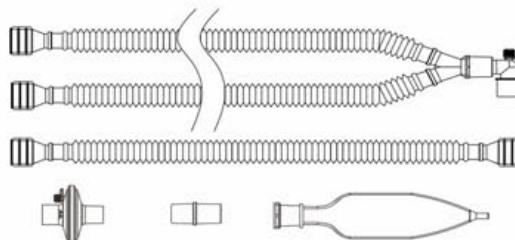
Pediatric Anaesthesia Breathing Systems

with bifurcated Pediatric wye, gas sampling elbow and 15mm hose

System with Drapable Tubing

FSC No.	Part No.	Configuration	Box Quantity
504-002	50413900	1.0m hoses	20
504-002	50430900	1.0m hoses, 0.5L breathing bag	20
504-002	50414200	1.0m hoses, 1L breathing bag	20
504-002	50414300	1.0m hoses, 1L breathing bag, bacteria filter	20
504-002	50423100	1.0m hoses, 1L breathing bag, bacteria filter & 1.0m spare limb (blue)	15
504-002	50414500	1.5m hoses	10
504-002	50421300	1.5m hoses, 0.5L breathing bag	10
504-002	50414800	1.5m hoses, 1L breathing bag	10
504-002	50414900	1.5m hoses, 1L breathing bag, bacteria filter	10
504-002	50426500	1.5m hoses, 1L breathing bag, bacteria filter & 1.0m spare limb (blue)	10

System with Expandable Tubing

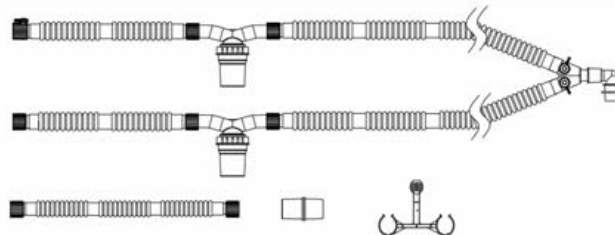| FSC No.	Part No.	Configuration	Box Quantity
504-005	50426600	1.8m hoses	50
504-005	50426700	1.8m hoses, 1L breathing bag	50
504-005	50426800	1.8m hoses, 1L breathing bag, bacteria filter	50
504-005	50426900	1.8m hoses, 1L breathing bag, bacteria filter & 1.8m spare limb (clear)	50

* The filter (P/N 50421500) and latex-free breathing bag are used.
* 1.0m, 1.5m, 1.8m, 2.4m, 3.0m length for choice
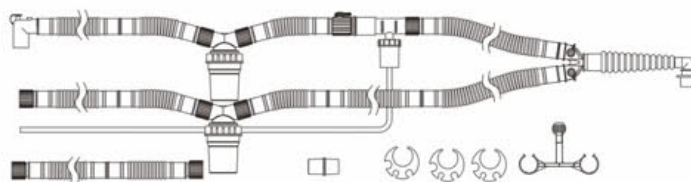
Ventilation Circuits

Ventilation Circuits
with bifurcated wye

FSC No.	Part No.	Configuration	Box Quantity
510-001	51003200	1.5m Adult ventilation circuit	10
510-001	51050955	1.5m Adult ventilation circuit w/ separate water traps, PVC tube & 0.5m spare limb	10
510-001	51008700	1.5m Adult ventilation circuit w/ separate water traps & 0.5m spare limb	10
510-001	51025600	1.8m Adult ventilation circuit w/ separate water traps, PVC tube & 0.5m spare limb	10
510-001	51003300	1.8m Adult ventilation circuit	10
510-001	51002800	1.8m Adult ventilation circuit w/ integral water traps	10
510-001	51002900	1.8m Adult ventilation circuit w/ separate water traps & proximal pressure line	10
510-001	51005800	1.8m Adult ventilation circuit w/ separate water traps & 0.5m spare limb	10
510-002	51003500	1.5m Pediatric ventilation circuit	15
510-002	51025400	1.5m Pediatric ventilation circuit w/ separate water traps & PVC tube	10
510-002	51003600	1.8m Pediatric ventilation circuit	10
510-002	51008400	1.8m Pediatric ventilation circuit with wate traps & 0.5m spare limb	15
510-002	51025500	1.8m Pediatric ventilation circuit w/ separate water traps & 0.5m spare limb	15

Ventilation Circuits
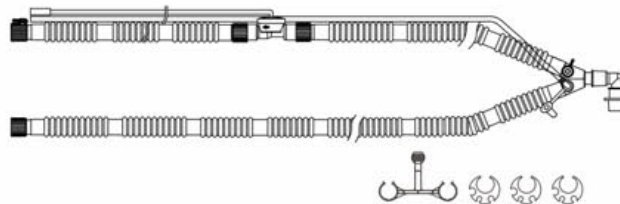with parallel wye and flex connector water trap

FSC No.	Part No.	Configuration	Box Quantity
510-001	51004200	1.5m Adult ventilation circuit (w/ pressure monitor line)	10
510-001	51003900	1.5m Adult ventilation circuit (w/o pressure monitor line)	10
510-001	51004000	1.5m Adult ventilation circuit with nebulizer (w/ pressure monitor line)	10
510-001	51004100	1.8m Adult ventilation circuit with nebulizer (w/o pressure monitor line)	10

* The filter (P/N 51000300) is used.

Ventilation Circuits
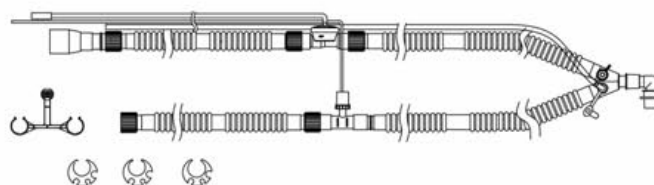
Ventilation Circuits
with external exhalation valve

FSC No.	Part No.	Configuration	Box Quantity
510-001	51003000	1.8m Adult ventilation circuit with external exhalation valve	10

Single Limb Ventilation Circuits
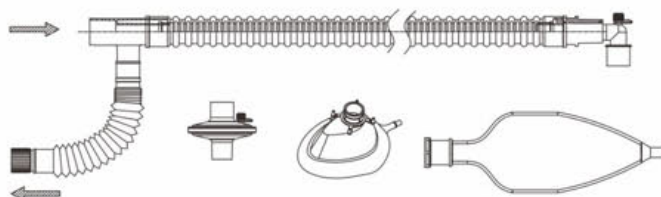
Single Limb Ventilation Circuits
with exhalation valve

FSC No.	Part No.	Configuration	Box Quantity
510-001	51003100	1.5m Adult single limb ventilation circuit	10
510-001	51003800	1.8m Adult single limb ventilation circuit with nebulizer	10
510-001	51005000	2.0m Adult single limb ventilation circuit	15
510-002	51000200	1.5m Pediatric single limb ventilation circuit	15

* The filter (P/N 51000300) is used.

Coaxial Circuits

• Convenient in connection
• Compact design for use in anesthesia
• Coaxial breathing circuit with blue inner inspiratory limb & white outer expiratory limb
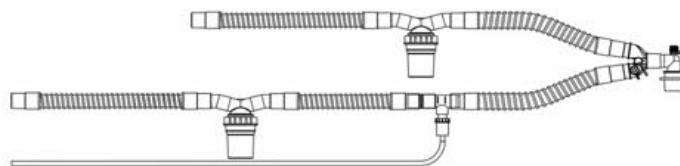
Coaxial Circuits

FSC No.	Part No.	Configuration	Box Quantity
504-009	5040010A	1.5m Adult coaxial anesthesia circuit	10
504-009	5040020A	1.5m Adult coaxial anesthesia circuit w/ size 5 facemask	10
504-009	5040030A	1.5m Adult coaxial anesthesia circuit w/ size 5 facemask & 3L breathing bag	10
504-009	5040040A	1.5m Adult coaxial anesthesia circuit w/ size 5 facemask, BSF 201 filter and 3L breathing bag	10
504-009	5040050A	1.8m Adult coaxial anesthesia circuit	10
504-009	5040060A	1.8m Adult coaxial anesthesia circuit w/ size 5 facemask	10
504-009	5040070A	1.8m Adult coaxial anesthesia circuit w/ size 5 facemask & 3L breathing bag	10
504-009	5040080A	1.8m Adult coaxial anesthesia circuit w/ size 5 facemask, BSF 201 filter & 3L breathing bag	10
504-013	50491000	1.5m Pediatric coaxial circuit with gas sampling elbow	20
504-013	50491100	1.8m Pediatric coaxial circuit with gas sampling elbow	20

* Pediatric coaxial circuit also available with different breathing bag size
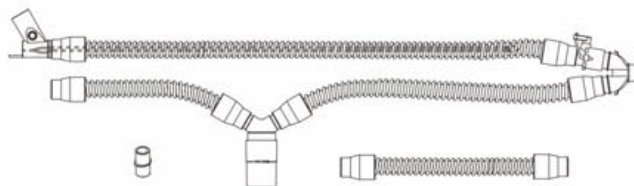 (Latex free breathing bag)

PVC Smoothbore Ventilation Circuits

PVC Smoothbore Ventilation Circuits

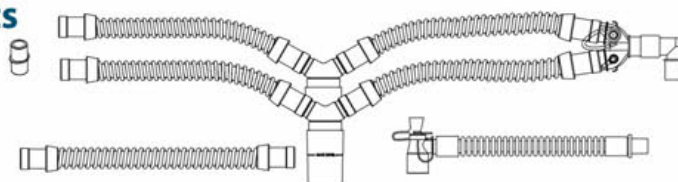| FSC No.	Part No.	Configuration	Box Quantity
510-011	51042500	1.5m Adult Smoothbore Circuit with water traps and nebulizer	10
510-011	51050935	1.5m Adult Single Limb Smoothbore Circuit with water trap and exhalation valve	10

Reusable Hytrel Circuits

Reusable Hytrel / Heater Wire Circuits (Autoclavable) Dual / Single

FSC No.	Part No.	Configuration	Box Quantity
510-022	51050927	1.5m Adult Reusable Hytrel Circuit with heater wire, single	10
510-024	51050929	1.5m Adult Reusable Hytrel Circuit with 2 water traps	10
510-026	51050931	1.5m Adult Single Limb Reusable Hytrel Circuit with water trap and exhalation valve	10

Reusable Silicone Circuits

Reusable Silicone Circuits with water traps

FSC No.	Part No.	Configuration	Box Quantity
510-019	51045300	1.5m Adult Reusable Silicone Breathing Silicone Breathing Circuit with water traps and reusable catheter mount	10
510-020	51045400	1.5m Pediatric Reusable Silicone Circuit with 2 water traps	10

Disposable Auto-Feed Neonatal Humidifier Chamber VHC10

- Automatically water refills
- Float mechanism enhances patient safety while maintaining a consistent water level
- Consistent compression volume
- Hold excellent humidity
- ISO 22mm M Inlet port and Outlet port
- Compressible Volume [Empty]: 300 ml
- Compressible Volume [Full]: 140ml
- Maximum Water Capacity: 160ml
- Maximum Peak Flow: 90l/min
- Box of 12 pieces

Disposable Auto-Feed Humidification Chamber VHC 20

- High sensitive auto-filling mechanism for water level control
- Consistent compression volume
- Hold excellent humidity
- ISO 22mm M Inlet port and Outlet port
- Compressible Volume [Empty]: 430 ml
- Compressible Volume [Full]: 195 ml
- Maximum Water Capacity: 235 ml
- Maximum Peak Flow: 90l/min
- Box of 12 pieces

Reusable Humidification Chamber VHC 25

- Molded with high grade engineering material Polysulfone (PSU)
- Top lid and chamber body can be removed easily for wick change and dissemble for sterilization
- Hold excellent humidity
- ISO 22mm M Inlet port and Outlet port
- Compressible Volume [Empty]: 640 ml
- Compressible Volume [Full]: 140 ml
- Maximum Water Capacity: 500 ml
- Maximum Peak Flow: 90l/min
- Box of 12 pieces

Humidification management in breathing system

Respiratory Humidifier VHB 15A
(Heater with sensor cable & adapter included)

Suitable for: adults, children.
- Mode of application: invasive and noninvasive.
- Display: 2.8 "high resolution TFT color screen display.
- Rated voltage: 220VAC/50Hz .
- Heating plate power: 150W.
- Heating coil power:

A、 The inspiration side: 24VDC, 36W;

B、 The expiration side: 24VDC, 36W.

* Setting range for heating temperature (adjustment accuracy of 0.5 ℃):

A、 The invasive pattern: patients with end: 35 ~ 40 ℃, the default 39 ℃;

B、 non-invasive mode: The patient-side: 30 ~ 37 ° C, the default 34 ℃.
- Temperature display error: ± 0.5 ℃ (temperature in the range of 22-45 ℃, under stable airflow).
- Humidity control range: ≥ 95% RH.
- Machine noise: ≤ 50dB.
- Dimensions: Length 204mm / Width 150mm / height 159mm.

Caution:

1、 The wrong installation of humidification chamber alarm,

2、 Dry humidification chamber alarm (no water inside),

3、 Higher / lower temperature limit alarm,

4、 Lower limit of humidity ,

5、 Lower limit of gas level alarm.

(Sensor feedback cable, heater wire circuit adapter be ordered separately)

VHB15A Humidifier

Humidifier / Temperature sensor feedback cable

Heater Wire Adaptor for reusable heated breathing circuit

Heater Wire Adaptor for dual/single heated breathing circuit

Respiratory Humidifier VHB 10A

- To provide humidity to patient
- One knob for manual temperature adjustment
- Simple to set up and remove chamber
- Power Input: 110V/230V+15% : Frequency: 50/60 Hz: Wattage: 85+15%
- Temperature Control Range: 45-80C Degree Celsius with tolerance +2C
- Automatic power cut off while without chamber loading
- Thermostat Precision: 95+7 Degree Celsius

Respiratory Humidifier VHB 15
(Temperature sensor cable included)

- To provide humidity to patient
- Electronic temperature control
- 3 points temperature monitoring
- Overheat alert alarm
- Automatic power cut off while without chamber loading
- Instant display temperature alert
- Come with temperature sensor cable connect to circuit patient end
- Power Input: 110V+15% : Frequency: 50/60 Hz: Wattage: 85+15%
- Temperature Control Range: 45-80C Degree Celsius with tolerance +0.8C
- Thermostat Precision: 95+7 Degree Celsius
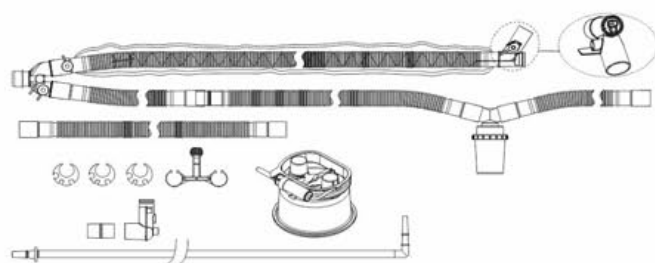- Digital temperature display precision: 0.1 Degree Celsius
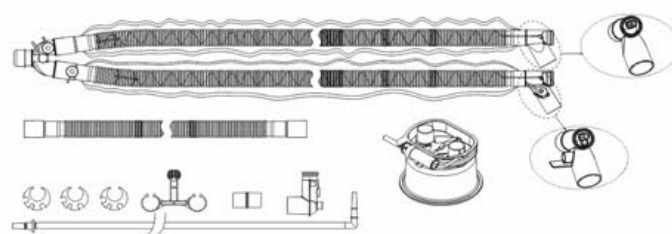
Heater Wire Circuits

- Prevent water condensation inside the tubing
- Keep comfort to the patient
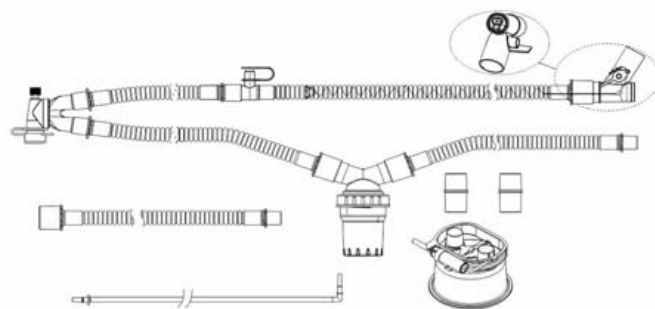- Combine with humidifier

Heater Wire Circuits

- Prevent water condensation,rainout occurs on the inner wall of breathing circuit during heated humidification
- Keep comfort to the patient
- Combine with humidifier, available in single heater limb and dual heater limb
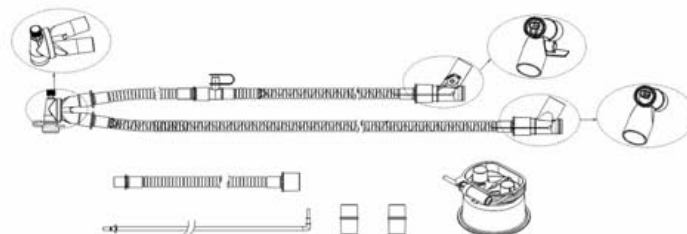- Compatible to F&P MR850 and MR730 heater base

HBC 02+VHC20

HBC 03+VHC20

HBC 04+VHC10

HBC 05+VHC10

FSC No.	Part No.	Configuration	Box Quantity
510-008	51048400	1.5m adult single limb heater wire disposable with water trap (HBC02)	10
510-008	51048500	1.5m adult dual limb heater wire (HBC03)	10
510-009	51048600	1.5m neonatal single limb heater wire disposable with water trap (HBC04)	10
510-009	51048700	1.5m neonatal dual limb heater wire disposable circuit (HBC05)	10
510-008	51050941	1.5m adult single limb heater wire disposable with wate trap,VHC20 chamber, monitor pressure line	10
510-008	51050942	1.5m adult dual limb heater wire disposable, VHC20 chamber, monitor pressure line	10
510-009	51050943	1.5m neonatal single limb heater wire disposable with wate trap,VHC10 chamber, monitor pressure line	10
510-009	51050944	1.5m neonatal dual limb heater wire disposable,VHC10 chamber, monitor pressure line	10

Ultrasonic Nebulizer

VGR-001 Ultrasonic Nebulizer Specification :

- Model number : VGR-001
- Input voltage : 220V/50Hz
- Rated current : 0.77A
- Ultrasonic frequency : 1.7±10%MHz
- Maximum atomization quantity: 2.6ml/min
- Atomization particle diameter : 1 - 5um
- Atomization medicine cup capacity : 60 mL±10mL
- Atomization time range : 1sec - 60Min
- Heating temperature range : 25 - 34℃
- Machine noise :≤50dB
- Continuous operating time : ≥4H

Function introduction

- Microcomputer control , applicable to both adult and children.
- Proper atomization particle size, can directly act on the respiratory tract and lungs.
- High sensitivity temperature probe, reflect accurately for the patients timely suction temperature.
- Easy to adjust the atomization quantity.
- Special structural design, less liquid / medicine loss.
- Easy to connect oxygen.
- Easy to adjust concentration of oxygen.

Part No.	Configuration	Box Quantity
51003223	VGR-001 Ultrasonic Nebulizer	1
51004141	Ultrasonic atomizer breathing tube	20
51004142	Valve mechanical splice	400
51004143	Mouth piece	400
51004145	Medicant cup	200
51004146	Adult elongated Oxygen mask	50
51004147	Adult standard Oxygen mask	50
51004148	Pediatric elongated Oxygen mask	50
51004149	Pediatric standard Oxygen mask	50
51004229	Peep valve	200

Nebulizer Kit

The Mouthpiece nebulizer kit

- With mouthpiece and T-connector
- 5ml nebulized chamber
- Anti-kinking 1.8m or 2.2m tubing
- Typical mist particle diameter< 5um
- Nebulizing mist output > 0.22mL/min at 6 L/min
- Come with 6" corrugated tubing

FSC No.	Part No.	Configuration	Box Quantity
VMN-001A	51002472	Adult mouthpiece nebulizer kit	50

The mask nebulizer kit

- Aerosol mask with angled connector
- 5ml nebulized chamber
- Anti-kinking 1.8m or 2.2m tubing
- Typical mist particle diameter< 5um
- Nebulizing mist output > 0.22ml/min at 6 L/min

Aerosol Therapy

The mouthpiece nebulizer kit and mask nebulizer kit
are intented for nebulizing drugs for pre- and postoperative procedures.

The nebuilzer chamber is compact and delivers aerosolised most optimised drug particles size.
Fast treatment time and easy operation.

FSC No.	Part No.	Configuration	Box Quantity
VMN-001B	51002473	Adult mask nebulizer kit	50
VMN-002B	51002474	Pediatric mask nebulizer kit	50

High Efficiency Particulate Air (HEPA) Filter

- Hydrophobic pleated membrane filters with ISO connector: 22F/15M - 22M/15F
- HEPA grade filtration efficiency(Remove 99.97%+ airborne particles 0.3mm in diameter)
- With gas sampling port
- NaCl filtration efficiency : 99.97%+ per ISO23328-1
- Pressure drop: 1.6cmH2O @ 30L/min.
- Compressible volume: 65ml
- Weight: 48g

FSC No.	Part No.	Configuration	Box Quantity
504-010	51050947	High Efficiency Particulate Air (HEPA) Filter	100

Heat & Moisture Exchange Filter (HMEF Series/ HME Trach)

HMEF Series

FSC No. 504-011

Item	HMEF 1000 Straight	HMEF 1000 Angled	HMEF Midi Straight	HMEF Midi Angled
Part No.	50497100	50400218	50400216	50400217
Connector	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F	15M-22M/15F
Dead space	33.5ml	35ml	20ml	24ml
Tidal volume range	150~1200ml	150~1200ml	60~500ml	60~500ml
Pressure drop	0.15KPa@30L/min	0.14KPa@30L/min	0.21KPa@30L/min	0.23KPa@30L/min
Moisture output	38mgH$_2$O/L	38mgH$_2$O/L	39mgH$_2$O/L	39mgH$_2$O/L
Bacterial filtration efficiency	＞99.9999%	＞99.9999%	＞99.99%	＞99.99%
Viral filtration efficiency	＞99.99%	＞99.99%	＞99.99%	＞99.99%
Box Quantity	100	100	100	100

HME Trach

FSC No. 510-019

Item	HME Trach T	HME Trach Basic
Part No.	51050902	51050901
Connector	15F	15F
Dead space	8ml	14ml
Pressure drop	0.04KPa@30L/min	0.03KPa@30L/min
Moisture output	38mgH$_2$O/L	37mgH$_2$O/L
Box Quantity	200	200

Respiratory Filters

Respiratory Filters: Low resistance bacterial / viral respiratory filter
- Connections: 22mm female x 22mm male
- Filter media: High performance electrostatic filter media

FSC No. 510-014

Item	BSF 103	BSF 104
Part no.	51008900	51009000
Compressible volume	65 ml	65 ml
Weight	27 g	27 g
Flow resistance at 30 LPM	0.6 cmH$_2$O	0.8 cmH$_2$O
Flow resistance at 60 LPM	1.0 cmH$_2$O	1.3 cmH$_2$O
Bacterial filtration efficiency	99.998+%	99.99993+%
Viral filtration efficiency	99.995+%	99.996+%
Casing material	K-resin	K-resin
Box quantity	100	100

Respiratory Filters: High performance bacterial / viral respiratory filter
- Connections: 22mm female / 15mm male x 22mm male / 15mm female
- Compressible volume: 30ml
- Weight: 33g
- Filter media: High performance electrostatic filter media
- Casing material: K-resin
- Gas sampling port: Threaded luer connector for sampling of CO$_2$

FSC No. 504-011

Item	BSF 201	BSF 202	BSF 203	BSF 204
Part no.	50421500	50421700	50452200	50453700
Flow resistance at 30 LPM	1.3 cmH$_2$O	1.3 cmH$_2$O	1.5 cmH$_2$O	1.5 cmH$_2$O
Flow resistance at 60 LPM	2.5 cmH$_2$O	2.5 cmH$_2$O	3.0 cmH$_2$O	3.0 cmH$_2$O
Bacterial filtration efficiency	99.99994+%	99.99994+%	99.99994+%	99.99994+%
Viral filtration efficiency	99.997+%	99.997+%	99.9999+%	99.9999+%
Gas sampling port	Yes	No	Yes	No
Box quantity	100	100	100	100

Respiratory Filters: Pressure feedback line filter
- Air flow resistance: less than 175 ± 5 cmH$_2$O at 20L/min
- Filter media: 1.2 µm modified acrylic copolymer cast on non-woven nylon support
- Water intrusion of membrane: 6.1 - 9.8 psi
- Casing material: K - resin styrene butdiene copolymers
- Weight: 7g

FSC No.	Part No.	Configuration	Box Quantity
504-014	51000400	Pressure feedback line filter	300

Air Cushion Masks

- Comfortable air cushion
- 6 sizes are available
- Colour-coded hook rings for easy identification of sizes

Air Cushion Masks

FSC No.	Part No.	Configuration	Box Quantity
504-006	5042650A	Disposable air cushion mask #0 for neonate (w/valve), white hook	100
504-006	5042660A	Disposable air cushion mask #1 for infant (w/valve), pink hook	100
504-006	5042670A	Disposable air cushion mask #2 for pediatric (w/valve), yellow hook	100
504-006	5042680A	Disposable air cushion mask #3 for child (w/valve), green hook	100
504-006	5042690A	Disposable air cushion mask #4 for small adult(w/valve), red hook	100
504-006	5042700A	Disposable air cushion mask #5 for large adult(w/valve), blue hook	100

Breathing bags

Traditional latex pleated or latex-free pleated breathing bags

Breathing bags

FSC No.	Part No.	Configuration	Box Quantity
504-012	50430400	Breathing bag, latex-free, 0.5L, green	200
504-012	50430500	Breathing bag, latex-free, 1L, green	100
504-012	50430600	Breathing bag, latex-free, 2L, green	100
504-012	50430700	Breathing bag, latex-free, 3L, green	100

Reusable Hytrel Tubing

- with smooth inner wall and two silicone rubber female end fittings
- the tubing is autoclavable, light, flexible and kink resistant.

Reusable Hytrel Tubing

FSC No.	Part No.	Configuration	Box Quantity
504-008	50400400	15 mm x 24" (0.60m), with 15 mm ID cuff	100
504-007	50401500	22 mm x 18" (0.45m), with 22 mm ID cuff	100
504-007	50401800	22 mm x 36" (0.90m), with 22 mm ID cuff	100
504-007	50402000	22 mm x 48" (1.20m), with 22 mm ID cuff	100
504-007	50402400	22 mm x 72" (1.80m), with 22 mm ID cuff	50
504-008	50479000	15 mm x 30" (0.75m), with 22mm ID cuff	100
504-008	50479100	15 mm x 36" (0.90m), with 22mm ID cuff	100

CPAP Tubing

Smoothbore(CPAP) breathing tube

FSC No.	Part No.	Configuration	Box Quantity
510-018	51050910	15 mm x 0.9m, 15mm ID cuff	100
510-018	51050916	22 mm x 0.9m, 22mm ID cuff	100
510-007	51050911	15 mm x 1.2m, 22mm ID cuff	100
510-006	51050917	22 mm x 1.2m, 22mm ID cuff	100
510-007	51050912	15 mm x 1.8m, 22mm ID cuff	50
510-006	51050918	22 mm x 1.8m, 22mm ID cuff	50

* 0.45m, 0.6m, 0.9m, 1.2m, 1.5m, 1.8m length for choice

Spare limbs

Spare limbs

FSC No.	Part No.	Configuration	Box Quantity
504-001	50427000	Drapable, 15mm x 1.0m, blue	100
504-001	50427100	Drapable, 22mm x 1.5m, green	70
504-001	50434200	Drapable, 22mm x 1.5m, clear	70
504-001	50454400	Drapable, 22mm x 1.8m, clear	60
504-001	50445400	Expandable, 22mm x 1.5m, clear	100
504-001	50427200	Expandable, 22mm x 1.8m, clear	100

Segmented coils

Segmented coils

FSC No.	Part No.	Configuration	Box Quantity
504-001	50419700	Disposable aerosol tubing, 22mm x 100' (30m), clear, 6" segment length	1
504-001	50419800	Disposable aerosol tubing, 22mm x 100' (30m), blue, 6" segment length	1
504-002	50429500	Disposable aerosol tubing, 15mm x 200' (60m), clear, 6" segment length	1

Components

FSC No.	Part No.	Configuration	Box Quantity	
504-010	50451800	Near parallel wye	600	
510-018	51008100	Near parallel wye with temperature port and port cap	600	
510-018	51008200	Near parallel wye w/ 2 temperature ports and port caps	600	
510-018	51050938	HW Near Parallel wye with temperature port and port cap	600	
510-018	51050939	HW Near Parallel wye	600	
504-010	50428800	Swivel wye	600	
504-010	50429100	Swivel wye with gas sampling port and port cap	600	
504-010	50428200	Bifurcated wye	600	
510-018	51000500	Bifurcated wye w/ temperature port and port cap	600	
510-018	51000700	Bifurcated wye w/ 2 temperature ports and port caps	600	
510-018	51002400	Bifurcated wye with temperature port, gas sampling port and port caps	600	
504-010	50428600	Pediatric bifurcated wye	900	
510-018	51002000	Pediatric bifurcated wye with temperature port and port cap	900	
510-018	51002100	Pediatric bifurcated wye with 2 temperature ports and port caps	900	
510-018	51002500	Pediatric bifurcated wye with temperature port, gas sampling port and port caps	900	
504-010	50452100	Outlet connector ll	900	

Components

FSC No.	Part No.	Configuration	Box Quantity	
510-018	51008300	Outlet connector with temperature port and port cap II	900	
504-010	50428700	Pediatric outlet connector	900	
510-018	51002200	Pediatric outlet connector with temperature port and port cap	900	
504-010	50428500	Straight adapter 22mm male x 15mm female / 22mm male	900	
510-018	51001800	Patient elbow	900	
504-010	50429200	Patient elbow with pressure port and port cap	900	
510-018	51048900	3.0m gas sampling line with luer connector	200	
510-018	51002600	Tube hanger	500	
510-018	51001000	Pressure monitor elbow	5000	
504-005	50400225	S model disposable sputurn extensible cannula connector	500	
504-005	50400226	L model disposable sputurn extensible cannula connector	500	
504-002	50427300	Flex connector with 6" taper tubing	200	
510-002	51010600	15mm x 6" corrugated segment tubing (clear), double swivel wye with tethered cap	100	
504-005	50480000	15mm x 6" expandable tubing & 15mm straight adaptor Double swivel wye with tethered cap	100	
510-018	51032200	Tee connector	600	
510-018	51026600	Water trap	100	

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