POCKET AIR®

LoyalCare®





Elevate Your Respiratory Care

MB05T01

MICROBASE®

Version : 20261020

MICROBASE®

Originating in Taiwan,
Elevating healthcare standards.

Over one million units have been sold worldwide and strong partnerships with top pharmaceutical companies.

MicroBase Technology Corporation was founded in 1997 in Taiwan. MicroBase is dedicated to developing non-silicon-based MEMS using LIGA technology, that enables the development of miniaturized devices and micron-scale parts. After a decade of development, we are the only company in Asia with integrated capabilities in laser material processing and mass production. MicroBase has applied its technology in many different fields, including electronic peripherals, medical materials, and beauty products worldwide.

ISO9001, ISO13485, ISO17025 certifications ensure our commitment to safe, reliable, convenient, comfortable and efficient.

With Laser-LIGA technology, MicroBase has process micron-level microstructures for various materials and incorporated the micro mesh technique into the development of inhalation devices, POCKET AIR®, for the treatment of respiratory diseases. We are dedicated to providing drug delivery system to all the patients and the healthcare professionals. We welcome collaboration opportunities in developing combination products with pharmaceutical companies.

The laboratory has passed the evaluation by International Laboratory Accreditation Alliance (ILAC) since 2017, and obtained the ISO17025 laboratory certification. Data reports issued by the laboratory have the credibility of third-party certification, including the EU and the US FDA. The nebulizer can provide more practical scientific data on the performance of different drugs to accurately monitor the quality of products.



ISO 17025 ACCREDITED LABORATORY
medtrade HomeCare 2014 New Product Pavilion Winner
2015 ERS Product of Outstanding Interest
bsi ISO 13485 Quality Management for Medical Devices CERTIFIED
TAIWAN EXCELLENCE 2024
EU-MDR
FDA
FDA CLEARED
CE 2797
Pmda
Australian Government Department of Health Therapeutic Goods Administration
ANVISA
EDIVICE
Medical Device Authority Malaysia
NATIONAL MEDICAL PRODUCTS ADMINISTRATION

Medication Cup

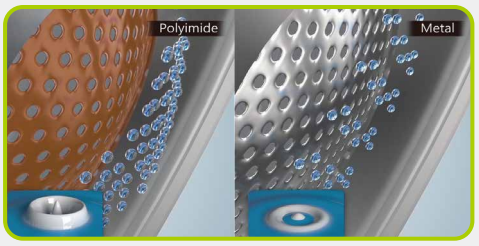
- Single patient single use.
- Smooth angle design close to zero liquid residue, completely atomized and absorbed.
- Double-use design for the upper cover-refill medicationand protect the circuit.





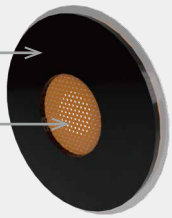


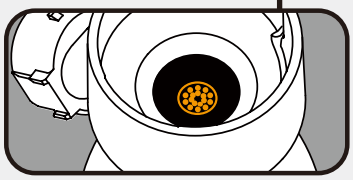
Unique PI mesh



PZT
Vibrational Element

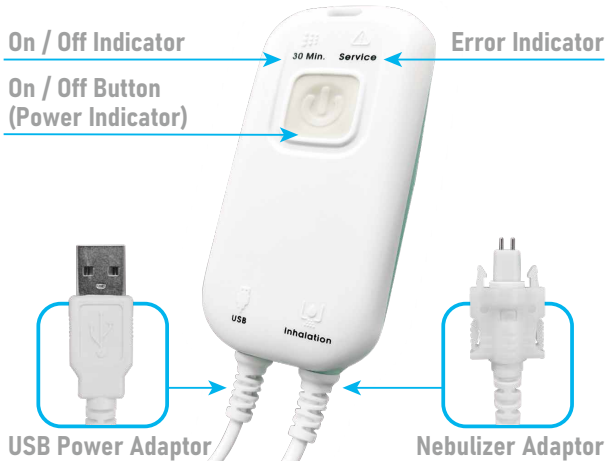
Mesh
Aperture Plate





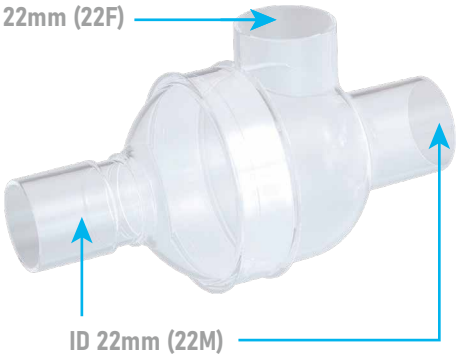
- Polyimide Mesh has excellent biocompatibility, durability and corrosion resistance which result a higher safety on different drugs and applications.

USB Controller



- USB-compatible for power bank usage in field operations.
- Automatically power off within 30 minutes.
- Dual mounting options for various hospital settings.
- Standby indicator for clear shift handover without re-confirmation.

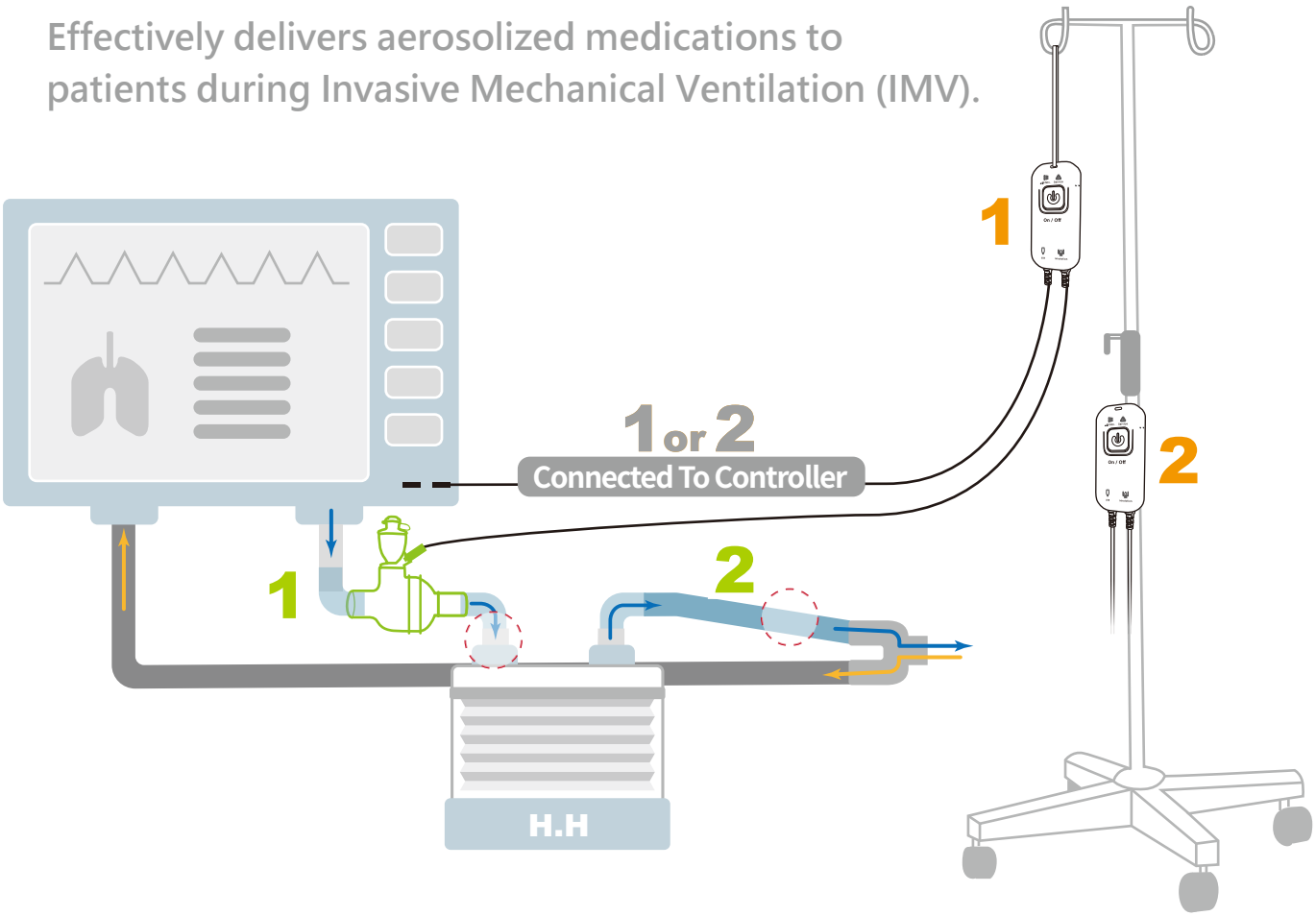
T-Piece



- PP material, heat-resistant and BPA-free for patient safety.
- Spherical T-Piece increases the amount of drugs directly to the lungs.
- Compatible with humidifier and heater for comfort and absorption.
- Can be connected by accessories meets ISO 5356 standard.

Invasive Mechanical Ventilation

Effectively delivers aerosolized medications to patients during Invasive Mechanical Ventilation (IMV).



NGI (Next Generation Impactor) In-Vitro Performance Data

Bronchodilator

Salbutamol (Ventolin)

MMAD: 3.916 GSD: 1.803

FPF(<5μm): 66.59% FPF(<3.3μm): 37.69%

Bronchodilator

Terbutaline (Bricanyl)

MMAD: 3.879 GSD: 1.825

FPF(<5μm): 66.33% FPF(<3.3μm): 38.43%

Antibiotic

Colistin (Colimycin)

MMAD: 3.249 GSD: 1.858

FPF(<5μm): 75.66% FPF(<3.3μm): 50.71%

*Performance data derived from in-vitro product testing at MicroBase Analytical Laboratory.

Pediatric Inhalation Test Data

Bronchodilator

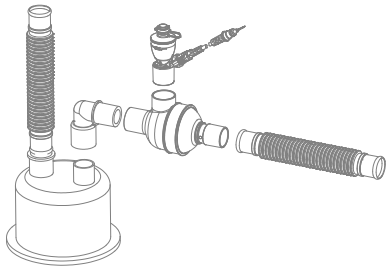
Salbutamol (Ventolin)

MMAD: 3.887 FPF(<5μm): 67.58%

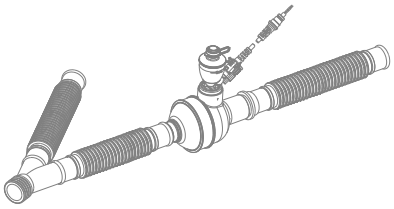
T-Piece Residue: 3%

*Performance data derived from Dv50 in-vitro product testing at MicroBase.

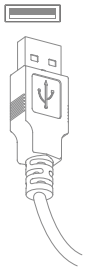
1. Connect With Humidifier



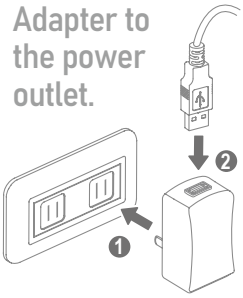
2. Connect With Breathing Circuit



1. USB Power Adaptor



2. Connect the AC/DC Adapter to the power outlet.



1. Hole on the Top

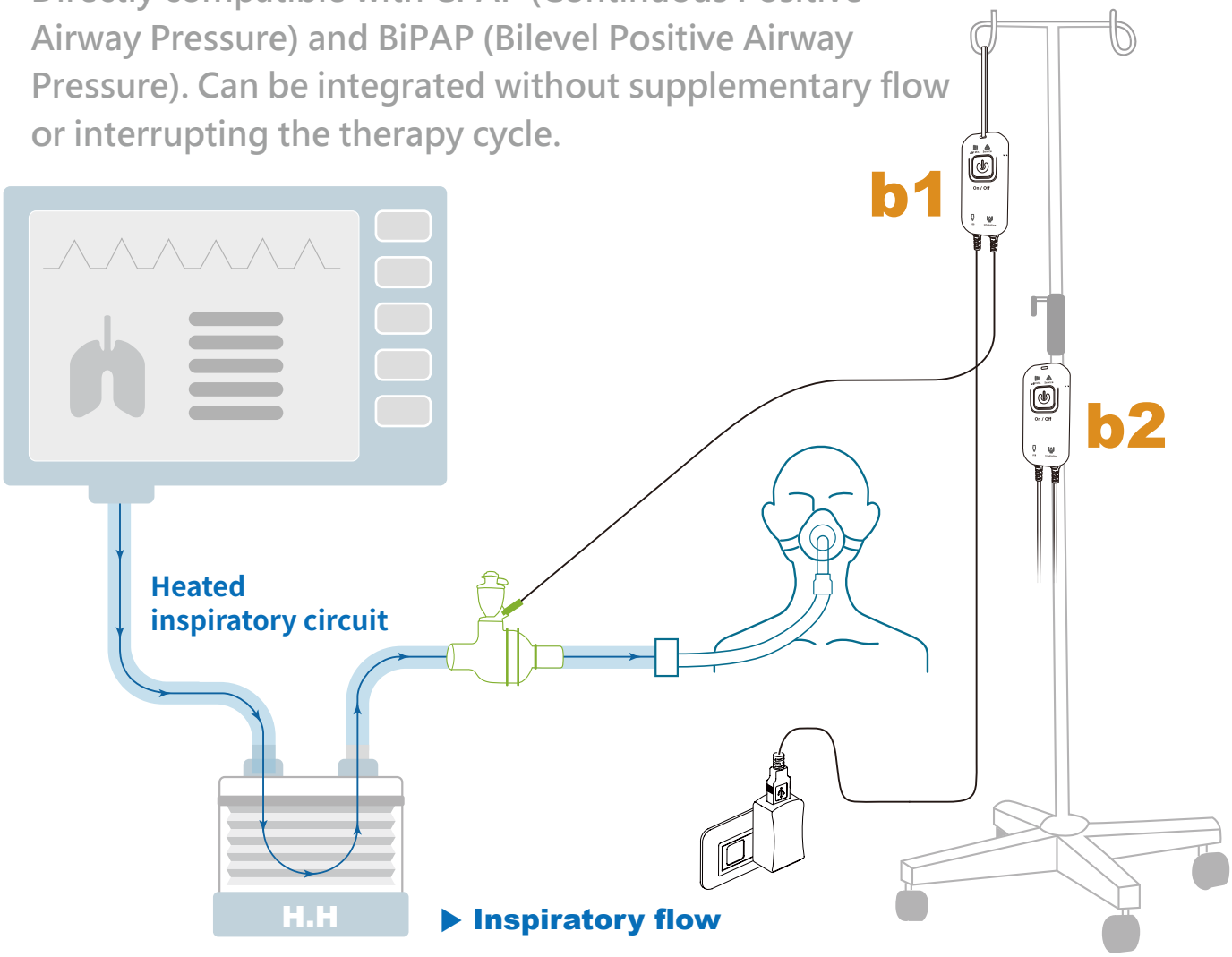


2. Hole on the back cover



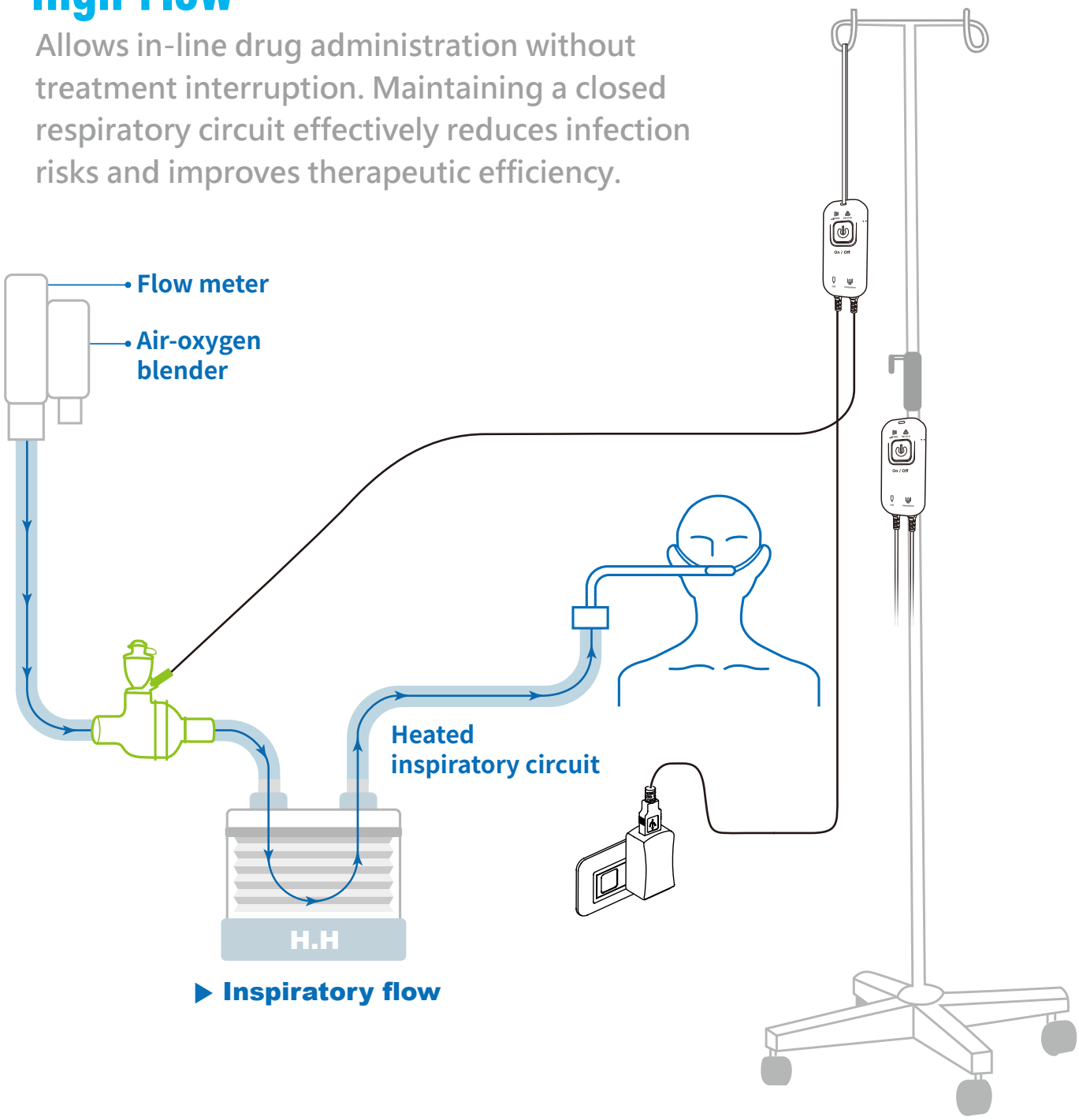
Non-Invasive Ventilation

Directly compatible with CPAP (Continuous Positive Airway Pressure) and BiPAP (Bilevel Positive Airway Pressure). Can be integrated without supplementary flow or interrupting the therapy cycle.



High-Flow

Allows in-line drug administration without treatment interruption. Maintaining a closed respiratory circuit effectively reduces infection risks and improves therapeutic efficiency.



NGI (Next Generation Impactor) Performance Data

Flow Rate 40 L/min

Ipratropium (Atrovent)

MMAD: **2.62** GSD: **1.479**

FPF(<5μm): **75.23%** FPF(<3.3μm): **56.79%**

Flow Rate 50 L/min

Ipratropium (Atrovent)

MMAD: **2.511** GSD: **1.436**

FPF(<5μm): **60.18%** FPF(<3.3μm): **48.01%**

***Performance data derived from in-vitro product testing at MicroBase Analytical Laboratory.**



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LoyalCare®

Specifications

Model	MB05T01
Method Of Operation	Active Vibrating Mesh Technology
Power Supply	Power Adapter: -Please use a power adapter that meets the requirements of IEC60601-1 and CCC certification standards. -Specification: 5V DC, 1A
Vibrating Frequency	120 (kHz)± 10%
Nebulization Rate	≧0.2 mL / min
Particle Size	MMAD≦ 5μm
Capacity of Nebulizer	Maximum 6 mL
Intended user	Nebulizer is for pediatric and adult patients. The installation operator must be a licensed medical personnel.
Operating Condition	Temperature 10 - 40°C, Humidity 30 - 85% , Air pressure: 800 - 1060 hPa
Storage and delivery condition	Temperature -20 - 70°C, Humidity 20 - 75%, Air pressure: 800 - 1060 hPa
Using time	28 days (4 treatments per day).
Weight	USB Controller Approx. 100g Medication cup Approx. 65g
Product Contents	USB Controller, T-Piece, Nebulizer and Adapter.



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