





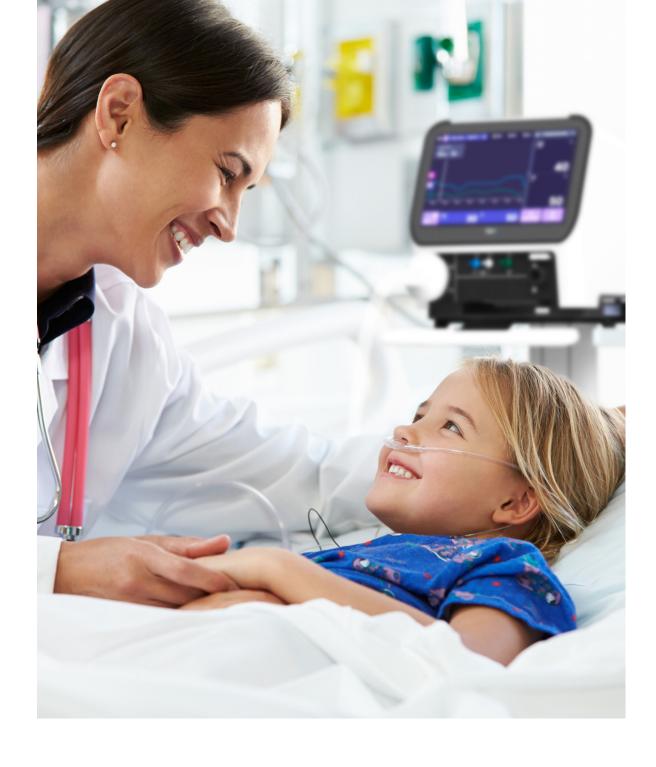


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### Who we are

MT Innovations, is a pioneering force in healthcare innovation. We specialize in developing advanced medical devices and components for licensing, empowering local manufacturers to deliver cutting-edge solutions and transform healthcare in their region.



# Our Mission

We are dedicated to creating affordable and advanced medical devices for licensing. By expediting development timelines and reducing complexity, we enable our partners to bring life-saving solutions to market faster and more efficiently.

Efficient
Experienced
Smart





# Our Expertise

IMT Innovations has more than thirty years of proven excellence in medical device innovation. We have collaborated with some of the world's leading and most renowned medical brands, supporting them in delivering groundbreaking solutions.

MedTech Innovation Partnership



## Licensing Model

#### Partner with a Proven Leader in Medical Innovation

As a licensee, you secure your role as a local manufacturer and gain access to cutting edge ventilator technology, thereby empowering your community and healthcare system.

#### You will receive:

- Manufacturing and Distribution Rights: Build and distribute the ventilator in your region or country.
- Access complete documentation for design transfer and submission to local authorities or notified bodies to achieve the regulatory approvals.
- Comprehensive Manufacturing Support: Implement a franchise-like production system with pre-designed workflows, supply chain support, and operational training.

Manufacturing Rights
Regulatory Approvals
Production Support



# The Project: box

#### Advanced, Affordable, and Adaptable Respiratory Care

The box ventilator redefines modern respiratory care by combining cutting edge technology with affordability. The box ventilator ensures superior performance while prioritizing ease and cost of production, maintenance, and operation. This makes the box ventilator an ideal solution for local manufacturing and sustainable healthcare systems.







### Specifications: box

The box ventilator is equipped with advanced technology and boasts a user-friendly, touch-optimized interface.

It is designed to accommodate patients from pediatric to adult, making it suitable for intensive care, sub-acute, and long-term care environments. This versatile unit supports both invasive and non-invasive ventilation, as well as oxygen therapy, all within a single device.

Featuring a powerful turbine blower and a compact design, the box ventilator ensures ease of use and offers a battery life of up to eight hours, facilitating intra-hospital transport.

User-friendly
Versatile
Compact design



#### Highlights at a glance

#### Adaptive Mode

Adaptive ventilation is optimized for lung-protec- Presents various ventilation parameters to assess tive strategies, significantly reducing the need for the patient's weaning status effectively. manual adjustments.

#### Comfort Breath Technology

A patented, airflow-optimized, low-resistance lowers work of breathing and improves CO<sub>2</sub> clearance.

#### **Automated Trigger**

Frees patients from rigid trigger settings, enhancing synchronization and comfort.

#### Oxygen Therapy

flow rate of up to 80 L/min.

### LungView

Provides a real-time graphical display of compliance, resistance, and spontaneous breathing.

#### WeanView

#### Spontaneous Breathing Trial Feature

Executes automated breathing trials, aborting the process if the patient's condition deteriorates.

#### Circuit Choice

Offers dual and single-limb operations flexibility to meet diverse clinical needs.

#### Touch-Optimized User Interface

A graphical user interface and advanced graph-Delivers oxygen to adult and pediatric patients at a ics reduce the learning curve, making the device accessible for caregivers at all experience levels.

Features	
Peak inspiratory flow	> 280 L/min
Apnea Ventilation Mode	✓
Flow pattern	Decelerating, Square
Inspiratory trigger	Flow, Auto
Expiratory trigger	Manual, Auto
Rise time	Manual, Auto
Leakage compensation	✓
Touchscreen lock	✓
Oxygen Flush/Suction maneuver	✓
Expiration valve, reusable	✓
On-screen Instructions	<b>✓</b>
Alarm and EventLog	<b>✓</b>
Automatic system test during startup	✓
Circuit test	✓
Waveforms	
Pressure airway	✓
Flow	✓
Volume	<b>✓</b>
Trending and Maneuvers	
Parameter trending	1h to 30 days
Manual breath	✓
Inspiratory Hold	✓
Expiratory Hold	✓
NIF (Negative Inspiratory Force)	✓
P0.1 (Occlusion pressure)	✓
PEEPintrinsic	✓

Graphics	
LungView	✓
WeanVlew	✓
Adaptive TargetView	✓
Alarms	
Vt	✓
MV	✓
PPeak	✓
Apnea	✓
Various	
Single and Dual Limb operation	✓
Integrated pneumatic nebulizer	✓
Settings	
Plnsp, IPAP	2 – 100 mbar
PSupport	0 – 80 mbar
PEEP, EPAP	0 – 50 mbar
Flow trigger	1-10, Auto
Expiration trigger	5 – 90 %, Auto
Oxygen	21 – 100 %
Rate	1 – 100 bpm
Rise time	0 – 2000 ms, auto
Tlnsp, I-time	0.1 - 10 s
Flow (HFOT)	2 – 80 L/min

Interfaces, Connections		
RS232	<b>✓</b>	
USB	<b>✓</b>	
Nurse Call	<b>✓</b>	
Connection protocols	HL7	
Dimensions (w × h × d)	263 × 275 × 325 mm	
Screen	10.1 inch Touchscreen	
Resolution	1920 × 1080 pixels	
Touchscreen	Capacitive, glass touchscreen	
Battery time	4 h (8 h with additional battery pack)	
Oxygen supply	Low and High pressure oxygen	
Oxygen connectors	DISS, NIST	
Weight	9.8 kg	
Extension Module Slots	3	
Protection class	IP22	
Color	white	
Acoustic power level	45 dBA	
Power input DC	24 VDC	
Power consumption	80 – 200 VA	
Units		
Monitoring (Pressure)	mbar, cmH₂O	
Pressure input	bar, psi	
Height	cm, ft/inch	
Weight	kg, lbs	

Ventilation Modes				
Mode	Description	Invasive	Non-Invasive	
Adaptive	Adaptive Mode	✓	-	
PC-A/C	Pressure Controlled, Assist Control	✓	✓	
CPAP/PS	Continuous Positive Airway Pressure, Pressure Support	✓	✓	
PSV	Pressure Support Ventilation	✓	✓	
S/T	Spontaneous/Timed	-	✓	
VC-A/C	Volume Controlled, Assist Control	✓	-	
PSV/VG	Pressure Support Ventilation with Volume Guarantee	✓	✓	
PC-A/C/VG	Pressure Controlled, Assist Control with Volume Guarantee	✓	✓	
HFOT	High Flow Oxygen Therapy	-	<b>✓</b>	



#### Disclaimer:

The technical specifications provided for the box ventilator are preliminary and subject to change as the device is further developed and tested. Final specifications may vary based on ongoing engineering improvements, clinical evaluations, and compliance with regulatory requirements in different countries. Users and stakeholders are advised to consult updated documentation and adhere to local guidelines and restrictions applicable in their regions.

# Take the next step

By partnering with IMT Innovations, you'll unlock a scalable opportunity while ensuring your community has access to critical, life-saving healthcare technology.



# Contact

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Scalable Opportunity
Life-Saving Healthcare
Community Access



IMT.Innovations