

OxyJet CPAP

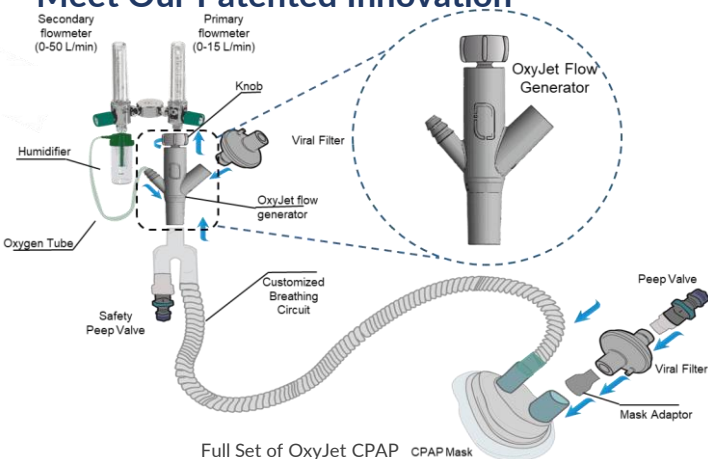
A Unique, Electricity-Free, Early CPAP Intervention For Any Set-Up



The Challenge: Critical Yet Overlooked

Patients requiring high-flow of oxygen or continuous positive airway pressure (CPAP device) often need ICU transfer, but globally, ICU shortages are critical (Bangladesh has only 18 ICU beds per million people!). High-flow or CPAP devices are limited to ICUs, making treatment so expensive for hospitals and patients. Also, traditional devices require **reliable electricity, complex setups, and skilled operators**, which are scarce in many low-resource settings, remote islands and rural areas. Additionally, most ambulances in countries like Bangladesh lack the equipment to deliver high-flow oxygen during patient transfers. As a result, patients in need of higher oxygen flow are left waiting helplessly for ICU availability, with no alternative support options in hospitals or ambulances.

Meet Our Patented Innovation



Full Set of OxyJet CPAP CPAPMask

To mitigate these challenges we've developed a unique, electricity-free, plug & play solution that delivers life-saving high flow of oxygen in any set-up with the help of an oxygen source (e.g. Cylinder or Central-line O₂). This is a spin-off company from Bangladesh University of Engineering and Technology (BUET).

*Please read the user manual for details assembling instructions

Important Features

- ✓ Completely Electricity-Free
- ✓ Consume less oxygen compared to traditional devices
- ✓ Flow-rate: 70 LPM ++ (as Traditional CPAP)
- ✓ PEEP Range: 5-20 cm H₂O (as Traditional CPAP)
- ✓ Adjustable %FiO₂ Delivery: 40% - 100% (Unique)
- ✓ No special set-up is required to install it
- ✓ Easy to operate (plug-n-play)
- ✓ Maintain Humidification and can attach with Heated humidifier

What OxyJet Is Offering?

Bridging between Ward & ICU Settings



Patient Benefits

- Reliable and early High-Flow Respiratory Support
- Faster Improvement in Oxygen Saturation (SpO₂ Level)
- Accessible Across All Hospital Levels and patients can receive advanced respiratory care in emergency units, general wards, and even in ambulances.
- Non-Invasive and Comfortable Therapy
- Built-in PEEP control, adjustable FiO₂, and safety valves ensure stable oxygen support
- Support During Transport (through Ambulances) and Referral (e.g. for Rural & Remotest people)
- Reduces out of pocket expenses

Hospital Benefits

- Maximizes Utilization of Existing Oxygen Infrastructure
- Reduces ICU Overload By supporting moderate respiratory failure outside the ICU, freeing beds for the most critical patients
- Enhances Hospital Quality of Care and treatment Pathway
- Low Operational Cost (No Electricity Needed)
- Extends ICU Capabilities into General Wards treating moderate to severe respiratory failure without requiring dedicated ICU beds
- Strengthens the healthcare system even in the rural community clinics.

The Complete Configuration Includes

Disposable Part

- OxyJet Flow Generator
- Breathing Tube
- Viral Filter
- Secondary Tube
- CPAP Mask
- Mask Adaptor
- PEEP Valve
- PEEP Adaptor

Reusable Part

- Dual Flow Meter
- Humidifier

Awards & Achievements

Global Awards



Bangkok Business Challenge 2024-Asia's Longest-running Global Startup Competition. First ever Finalist from Bangladesh



Medtronic Biomedical Engineering Society (BMES) Design Competition- first winner outside USA.



Entrepreneurs Organization 2022-23 Winner by GSEA (Bangladesh Chapter)



Global Winner of Imagine IF competition-2021 organized by Innovation Forum based in Cambridge (UK)



IEEE Idea Contest (2020) Winner

US Patent: Granted

Philippines, Malaysia, Bangladesh (Submitted)



Media Coverages

[National And International]



The Daily Star

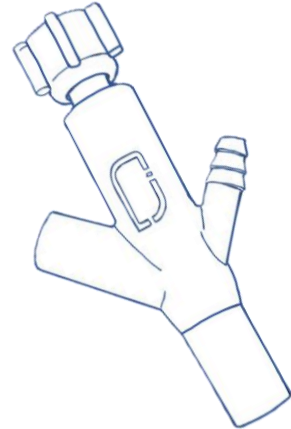


Recognized by UNO

Noteworthy Innovation in Global South



Let's Empower Global Health, Simply and Affordably



Find the details report from here:

- <https://surl.lu/uahlcz>
- <https://apps.who.int/iris/bitstream/handle/10665/361883/9789290209843-eng.pdf?sequence=1>

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Company Profile

OxyJet Limited



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Our Mission

To develop, manufacture and distribute affordable respiratory support devices and solutions that are safe, reliable and accessible to underserved patients in resource-limited settings

Our Guiding principle

- Prioritize the health, dignity and well-being of every patient above all other considerations;
- Optimize product design and business processes for affordability, reach, and public benefit;
- Maintain the highest ethical standards in every aspect of work, from product development and clinical testing to supply-chain practices and corporate governance;