

Supported By



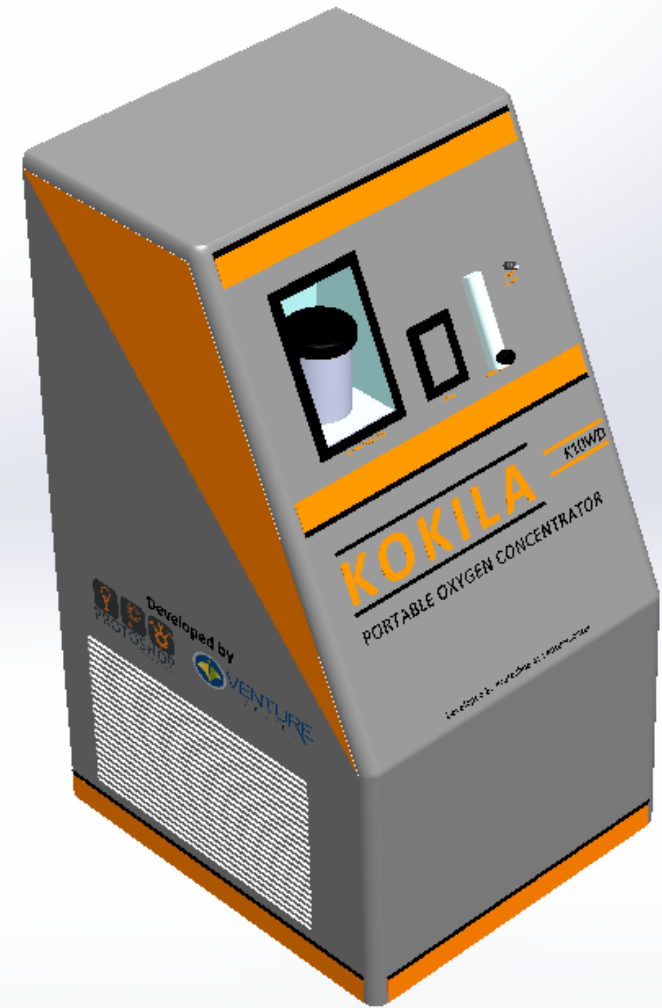
DESIGNED
SPECIFICALLY
FOR RURAL INDIA
(LOW MAINTANENCE,
REMOTE MONITORING, HIGH
RANGE OF OPERATION)

Disclaimer

This is an experimental device produced for the emergent needs of remote healthcare locations. No warranty or assurance is provided. Venturecenter shall not be responsible for, nor incur any liability for any particular use or application of its product by the customer absent such a specific and express written contractual agreement otherwise and the choice of our product for any particular intended use is the sole and exclusive responsibility of the customer.

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Kokila

PORTABLE OXYGEN CONCENTRATOR

Model Number - K10WD
Sr. No - EDC21100901



Description

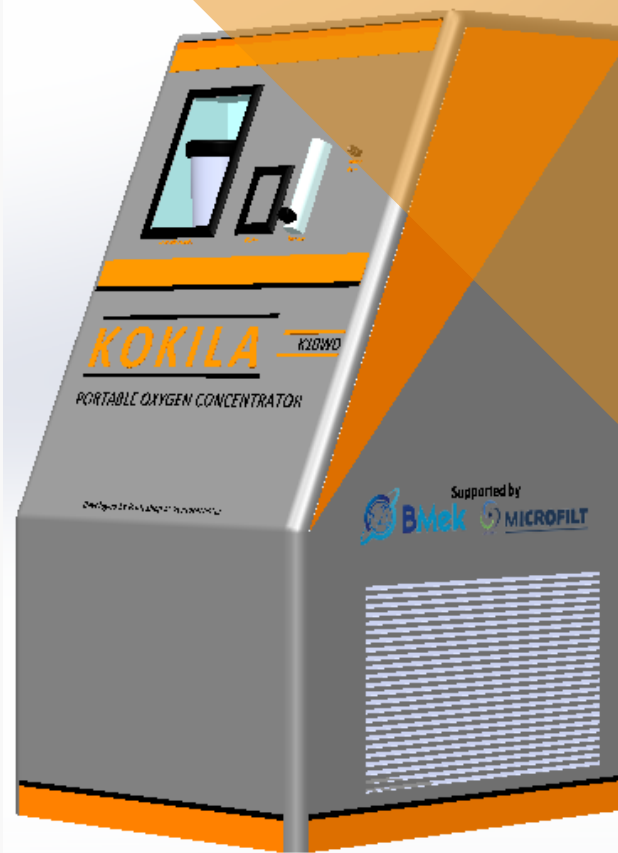
An oxygen concentrator is an electrically operated device intended to provide supplemental low flow oxygen therapy. The unit separates oxygen from ambient air, delivering high quality purified oxygen to patients.

The oxygen concentrator is designed to provide over 90% concentrated oxygen. The time to achieve and reach the specified performance is less than 5 min at 10 LPM. The device works on Pressure Swing Adsorption process by trapping and removing nitrogen from ambient air, thereby allowing enriched oxygen to be available at the output. In the process, molecular sieve lithium-based zeolites have been used for adsorption.

To enable use in high humidity conditions, it incorporates a moisture removal stage with a built-in auto drain valve. Real time data monitoring of oxygen level, flow rate, temperature, pressure and relative humidity is achieved through indicators and sensors having temperature range up to 10°C -45°C, humidity of 15%-95% and elevation up to 2000 meters. Visual and auditory alarms are also installed for safe and smooth functioning of the device.

The machine is built on a rigid, aluminium extrusion frame with suitable covering as well as is wheel mounted which enables rigidity to the device as well as robustness to work in different areas and health care settings.

The machine can be powered from a standard 220-240 V AC at 50 Hz with power consumption of less than 750 W at 10 LPM.



User Instructions

- Step 1. Plug the cord into a grounded electrical outlet.
- Step 2. If prescribed, attach the humidification bottle filled with distilled water.
- Step 3. Attach the oxygen tubing to the port on the lid of the humidification bottle.
- Step 4. Press the switch to the ON position to start the device.
- Step 5. Controlling the flowrate as per prescribed.

Specifications

TECHNICAL CHARACTERISTICS

- **Oxygen purity:** 93% ± 3%
- **Time to reach 93% of specified performance:** < 5 mins
- **Flow rate:** 0- 7LPM
- **Data monitoring:** Real time data - Oxygen purity level, flow rate, temperature, Humidity.
- **Durability and robustness:** Temperature 10-45, humidity 15%-95%, elevation up to 2000 meters
- **Flow meter:** 0 to 7 LPM flowmeter, minimal incremental 0.5 LPM
- **Alarms:** Visual and auditory alarms
- **Indicators:** - Clearly labeled or marked with pictures and language. Audible alerts and diagnostic indicator where possible
- **Mobility:** Whole unit movable with wheels on at least 2 feet
- **Oxygen Monitor:** visual and audible status, preferably with color coding for early warning.
- **Noise Level:** ≤60 decibels
- **Weight:** 45 Kg
- **Dimensions (LxWxHmm):** 565 x 510 x 1015 mm
- **Usage Meter:** Non resettable digital meter displaying cumulative hours of operation.
- **Outlet Pressure:** 5.5 PSI
- **Oxygen Purity Indicator alarm levels:** Low oxygen-80%, Very low oxygen -70%

UTILITY REQUIREMENTS

- Power source: Mains Power
- Power consumption: < 750 W at 10LPM
- Voltage: 220-240 V AC at 50Hz