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Oxygen Concentrator U/PRO5

Description



A reimagined, compact, and highly mobile machine demonstrates that it can stand and deliver a high-quality concentration of Oxygen in an affordable yet sleek layout.

Produced in a lightweight yet tough thermoplastic cabinet to accommodate the components and machinery of the concentrator, while not hindering mobility or convenience of the overall unit. U/PRO5 also has a flame retardant incorporated into the plastic as an added safety feature.

Features

- Outside material: Acrylonitrile Butadiene Styrene (ABS)
- Sits atop 4 recessed caster-style wheels, to prevent potential damage or impede movement.
- U/PRO5 also have a handle at the top, to allow for easy handling.
- Overall weight: 14,5kg
- Dimensions: 36x23x58,5cm
- Flow rate: between 0,125 - 5,0 liters per minute (LPM)
- Concentration Range: 90,0% (+5,6/-3,0) purified Oxygen
- Storage temperature: -20 to 40°C
- Average power consumption: 300 Watts for the 230 Volt/ 50 Hertz setup.
- With an easy interface and ease of operation, U/PRO5 is made to be as simple as possible. The U/PRO5 has an Oxygen flow rate knob that is marked, and comes with 12 distinct flow settings, to allow for accurate Oxygen generation for the needs at hand. The units have a standard power switch with just an "On/OFF" setting, as well as visual aids, and a resettable Circuit Breaker.
- The U/PRO5 is designed for easy, low-maintenance service. The hour meter is visible on the outside of the machine, and the dual filters are both readily accessible on the back on unit.
- The U/PRO5 has a spring-mounted Thomas Compressor to aid in a reduction of both vibration and overall sound of the running machine. The compressor makes use of a 50 PSI Pressure Relief Valve as well as a Thermal Switch that will activate automatically and turn off the compressor if the compressor's temperature meets or exceeds 165°C during operation.
- Enriched Oxygen is provided by Rapid Pressure Swing Adsorption (RPSA) through two tubes of molecular sieve, which are intermittently timed to provide continuous oxygen.
- Outlet Pressure for The U/PRO5: 7.0 PSI / 0.483 Bar / 0.477 ATM
- Pressure rate for the Oxygen output is controlled by the internal 2-way Regulator.
- The U/PRO5 makes use of an Oxygen Content Sensor Indicator (OCSI) that comes standard on the Circuit Board. The purified Oxygen passes through a chamber that measures the concentration of the gas via ultrasonic waves, and will



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notify via both visual and auditory aids if that purity were to drop below the threshold of 83% purified O₂.

- The U/PRO5 utilizes a resettable Circuit Breaker to protect the circuitry from damage in the event of a short circuit or power overload. 10-amp Breakers are used on the 230 Volt Models.
- The U/PRO5 machine has a barbed Oxygen outlet fitting to ensure a secure connection to the outlet and prevent accidental disconnecting.
- The outer filter of the machine can be washed with warm water to remove dust and other foreign materials caught in it; doing so regularly not only increases the purity of the oxygen generated, but also increases the longevity of the machine overall.
- Comes with numerous safety features, such as an auditory alarm in the event of Loss of Power, High/Low Pressure, overall process failure, and if purity falls below a certain point. This is also accompanied by a solid red LED light to alert the user that there is a problem.

Connection

With the UNO O₂ concentrator, it is very easy to get the required O₂ flow to the Induction box, to the face mask or to the ventilator.

1. Connect the tube from the O₂ concentrator to the O₂ connection of the flow meter.
2. Switch the O₂ concentrator ON. 3
3. Set the small flow meter of the O₂ concentrator to 5LPM (max.).
4. Now use the flow meter of the basic anesthesia set-up to regulate the O₂ flow to the Induction Box, the face mask or Ventilator. You should leave the small flowmeter at 5 LPM because only the flow meter of the basic anesthesia set-up has to be used to regulate the flow.

Ordering number

180000399	Oxygen Concentrator U/PRO5
180000499	Replacement filterset

