

**IMPACT<sup>®</sup>**

**Uni-Vent<sup>®</sup>**

**Model 73X  
Portable Ventilator**

# OPERATOR TRAINING PROGRAM FOR: The Uni-Vent<sup>®</sup> Model 73X

## A portable ventilator for:



**Disasters**



**Emergency Services**



**Force Protection**



**Mass Casualty Incidents**

# Uni-Vent<sup>®</sup> Model 73X

## Portable Ventilator Features

- **Electronic control of all functions including automatic monitoring of internal battery and external power sources, internal compressor and external gases.**
- **Alarm monitoring of all critical operating conditions.**
- **Rugged design to facilitate transport and placement.**
- **Electronic control circuitry eliminates all pneumatic-logic circuits, and any dependency on gas for operating power.**
- **Rechargeable batteries, fully compatible with vehicular electrical systems and wide range of AC voltages.**

# Uni-Vent<sup>®</sup> Model 73X

## Portable Ventilator Features

Cont....

- Fully self-contained, operation with or without attachment of external oxygen and/or external power.
- Numerical panel markings simplify and speed start-up.
- Digital bar graph presents airway pressure in real time.
- Dedicated alarm LED's.
- 5+ hours of continuous compressor operation from internal battery pack.
- May be used with HEPA, HEPA/HME or C2A1 Chemical/Biological filters.
- Uses low cost disposable ventilator circuits.

# Your Uni-Vent<sup>®</sup> Model 73X Portable Ventilator

- Internal Battery or External Power
- Internal Compressor or External 50 PSI Medical Grade Oxygen
- Comprehensive Alarm System
- Digital Bar Graph Continuously Monitors Airway Pressure
- Single-Patient-Use Ventilator Circuit
- Fast Start-Up Sequence
- For use with Adults and Children



# Uni-Vent<sup>®</sup> Model 73X

## Internal or External Power



**Internal Battery Pack**



**External Power**



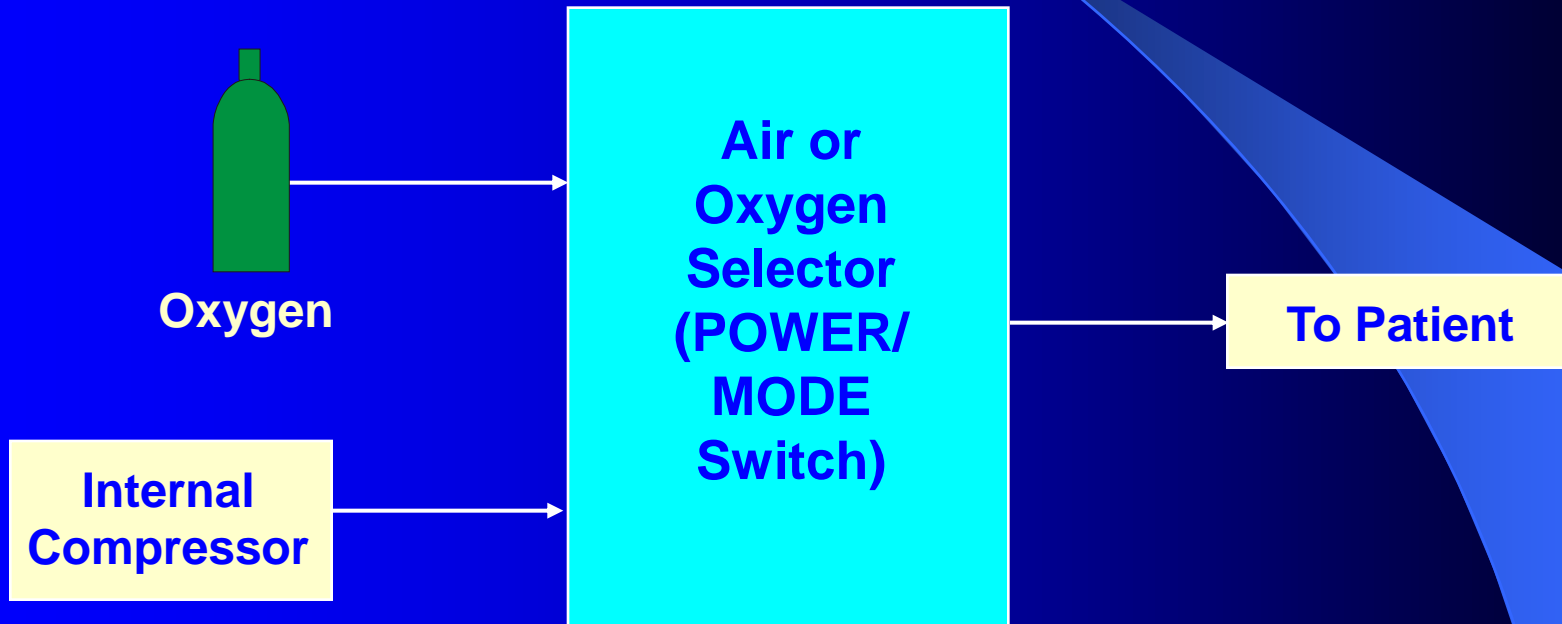
**External Power Supply**



**DC Power Cable**

# Uni-Vent<sup>®</sup> Model 73X

Uses internal Compressor or External Oxygen



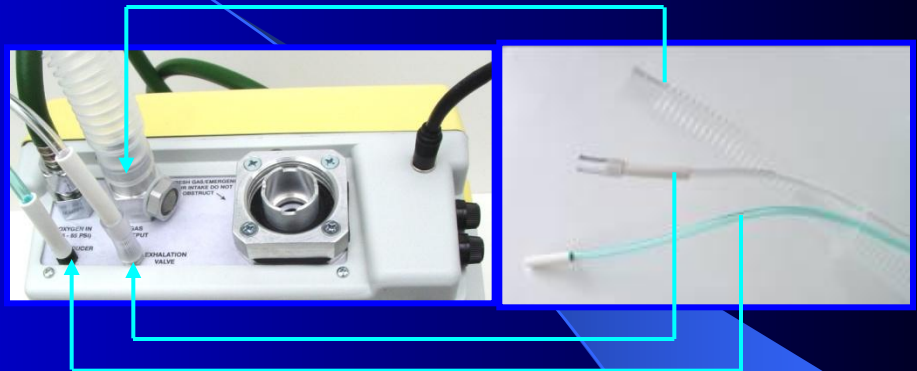
# Getting started...

- **Attach Ventilator Circuit**
- **Select Operating Mode**
- **Set Breath Rate**
- **Set Tidal Volume**
- **Set High Airway Pressure Alarm threshold**





# Attach the Ventilator Circuit



- Connect 22mm corrugated hose to ventilator GAS OUT fitting
- Connect green **TRANSDUCER HOSE** to ventilator **TRANSDUCER** hose barb (Green)
- Connect clear **EXHALATION VALVE HOSE** to Ventilator **EXHALATION VALVE** hose barb (clear)

# Control Settings...

## ...by the numbers



Select the operating Mode to CPR/Control or Assist Control using internal Compressor or external 50 PSI Oxygen.



Select a Breath Rate between 10 and 20 Breaths/Minute.



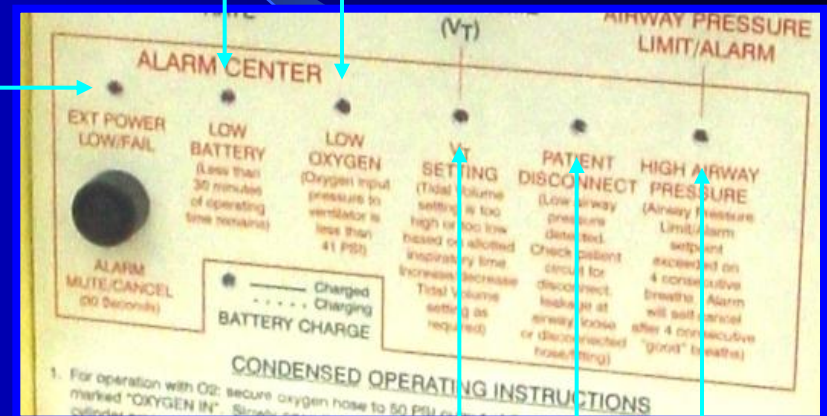
Set a Tidal Volume from the color-range that corresponds to the color of the Breath Rate setting.



Set the High Airway Pressure Alarm threshold to a value between 15 and 80 cmH<sub>2</sub>O.

# Alarms...

- **Low Oxygen** – activates when pressure to the ventilator is less than 41 PSI.
- **Low Battery** – activates when less than 30 minutes of battery power remains.
- **External Power Low/Fail** – activates when external power sensed at External Power Jack falls below 11.8 volts.
- **V<sub>T</sub> Setting** – activates when tidal volume setting is outside of the range for breath rate set.
- **Patient Disconnect** – activates when low pressure is sensed in the ventilator circuit.
- **High Airway Pressure** – activates when airway pressure exceeds the alarm setpoint on 4 consecutive breaths.

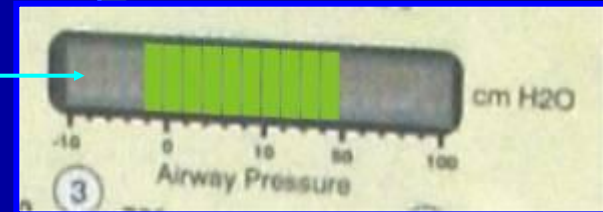


# Additional functions...

## Indicators and Mute/Cancel Pushbutton

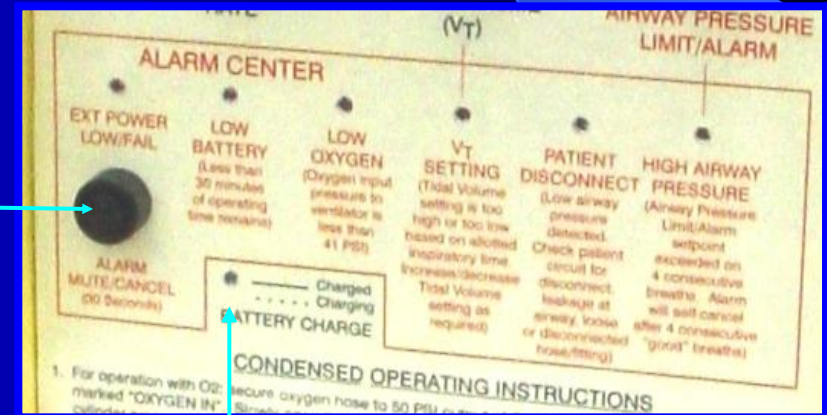
- **Airway Pressure Digital Bar Graph**

Continuously monitors the patient's airway pressure.



- **Mute/Cancel**

The MUTE/CANCEL Pushbutton Switch allows the audible component of an Alarm to be temporarily muted or cancels an EXT POWER LOW/FAIL Alarm. Mute periods are 30-seconds long.



- **Battery Charge Indicator**

Continuously illuminates when battery is charged, blinks when battery is charging.

# Patient Safety

## Excess pressure and Anti-asphyxia

- **Excess pressure protection** – mechanical safety valve provided to prevent airway pressure from exceeding 100 cmH<sub>2</sub>O.
- **Anti-asphyxia protection** – allows patient to spontaneously breathe filtered ambient air at all times.



- **Particulate Filter**

# Optional Filters

## Compatibility and Attachment

- Filters connect to the Fresh Gas/ Emergency Air Intake fitting.
- Fitting is sized to accommodate HEPA or HEPA/HME 22 mm male taper and C2A1 canister threads.



**HEPA or HEPA/HME Filters**



**Type C2A1  
Chemical/Biological Filters**

# Contact Information

- **For replacement parts or operational assistance:**

Telephone: 973.882.1212

Fax: 973.882.4993

Email (Commercial accounts): [sales@impactii.com](mailto:sales@impactii.com)

Email (Government accounts): [govsales@impactii.com](mailto:govsales@impactii.com)

- **For service or technical assistance:**

Telephone: 973.882.1212

Fax: 973.882.4993

Email: [service@impactii.com](mailto:service@impactii.com)