Lightweight, compact design for easy portability.

Exceptional battery life for extended ambulation.

Internal dial-in PEEP for convenient ventilator operation.

Time-limited pressure control ventilation for supporting uncuffed airways.

Internal $O_2$ blending for convenient and accurate delivery of 21-100% $F_iO_2$.

Flow triggering (with optional pressure trigger) for optimal patient responsiveness.

Internal memory with external modem connections for accessing stored data, providing more efficient patient outcomes management.

Models at three capability levels offer cost effective care for all patients from the hospital to the home.
SPECIFICATIONS

Power Line
- 110/240 VAC, 50/60 Hz, universal AC input

Power Usage
- Maximum: 75 W
- Nominal: 10 W
- External Battery: Approx. 20 hours operation under normal load
- Internal Battery: At least 4 hours operation under normal load; backup use only

Type - Positive Pressure Volume Ventilator
- Motor: Brushless induction
- Pump: Piston, 50 to 2200 ml tidal volume

Front Panel Controls/Connections
- Alarm Silence/Reset: Push button to pre-silence, silence alarm or to reset, alarm test
- Battery Test: Push button to show charge level on lower window of Patient Pressure meter
- Standby: Used to place the ventilator in the non-ventilate state
- Ventilator: Enables the ventilator to deliver air to the patient
- Mode Setting Switches: Volume, Inspiratory Time, Sensitivity, Breath Rate, Pressure Support, PEEP, Low Pressure, High Pressure, Fio2
- Menus/Es: Activates and deactivates the menu on the ventilator's display
- Start/Enter: Used to accept the currently flashing parameter as the new setting. Activates display
- Up and Down Arrow Keys: Increases or decreases the parameter settings or menu screens.
- Pressing while the sub menu is not active and a parameter has not been selected will cause the last alarm to be displayed
- Patient Pressure Port: Connection to the proximal pressure line of the patient circuit
- Patient Air: 22mm O.D/15mm I.D
- Exhalation Valve Port: Connection to the exhalation valve of the patient circuit

Front Panel Settings
- Volume: Adjustable from 50 to 2200 ml in 10 ml steps (up to 1750 ml in SIMV)
- Inspiratory Time: Set time from 0.2 to 5.0 seconds in increments of 0.1 second
- Sensitivity: Set flow from 3 to 25 LPM in 1 LPM increments. Set pressure from 1 to 15 cm H2O/hPa in 1 cm H2O/hPa increments
- Breath Rate: Set breathing rate: 1 to 80 BPM in increments of 1 BPM
- Pressure: Set for 0 to 50 cm H2O/hPa in 1 cm H2O/hPa increments
- PEEP: Set for 0 and 3 to 20 cm H2O/hPa in 1 cm H2O/hPa increments

Low Pressure: Set for 1 to 59 cm H2O/hPa in 1 cm H2O/hPa increments
- High Pressure: Set for 2 to 80 cm H2O/hPa in 1 cm H2O/hPa increments
- O2 Level: Set 21% to 100% for tidal volumes greater than or equal to 90 ml, 21% to 70% for tidal volumes less than 90 ml in 1% increments

Rear Panel Components
- Inlet Filter: Intake for patient air; screw off cap for filter change, 98% efficient at 0.3 microns
- External Battery: Connection for 24 VDC battery
- Communication Port: For computer, printer or external modem
- Nurse Call Port: Connection to nurse call station
- Power Entry Module: For AC power cord
- O2 Port: 9/16-18, DISS 1240 THD
- Other connections upon request

Environment
- Operating: 5°C to 40°C (41°F to 104°F), 10% to 90% RH non-condensing
- Storage: -20°C to 50°C (-4°F to 122°F), 10% to 90% RH non-condensing: allow at least 1 hour temperature stabilisation before use when moving from non-operating to operating environment; the battery must be recharged every 30 days

Maintenance
- Preventative maintenance by qualified professional every 6000 hours or recertification every 12 months, whichever comes first

Dimensions
- 27.3 cm x 33.8 cm x 39.6 cm
- (10.75” H x 13.30” W x 15.60” D)

Weight
- Less than 14.5 kg (32 lbs)

Resistance Factor
- Maximum of 4.5 cm H2O/hPa at 60 LPM

Emergency Pressure Relief
- Approx. 90 ± 10 cm H2O/hPa

Flow
- 2.0 LPM to 150 LPM (averaged)

ORDERING INFORMATION
- Y-ACH-UK: Achieva™
- Y-ACH-X-UK: Achieva X
- Y-ACH-PS-UK: Achieva PS

Required Accessories
- Y-6267: Reusable adult circuit - metal
- Y-6268: Reusable adult circuit - plastic
- Y-6463: Disposable adult circuit
- Y-6464: Disposable paediatric circuit
- L-6106: Air inlet filter
- L-6108: Bacteria filter (disposable)

Optional Accessories
- Y-ACH-RG: Report Generator Software
- Y-6441-ACH: Ventilator cart
- Y-CGVP24: External battery pack
- Y-6353: Exhalation valve
- L-6202: O2 enrichment kit
- L-6861: Trach support arm

Note: Use only Mallinckrodt-approved accessories with the ventilators.
Achieva ventilators are manufactured in Minneapolis, MN U.S.A.

MODEL COMPARISON

<table>
<thead>
<tr>
<th>Feature</th>
<th>Achieva</th>
<th>Achieva X</th>
<th>Achieva PS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assist/Control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- with Pressure Control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SIMV</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- with CPAP</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>- with Pressure Support</td>
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<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Spontaneous (Pressure Support)</td>
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<td>No</td>
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</tr>
<tr>
<td>- with CPAP</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Internal O2 Blender</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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