**Controls and Features**

**Patient Selection:** Pediatric/Infant – Adult

**Breath Types/Modes:**
- Volume Control (VC)
- Pressure Control (PC)
- Volume Target Pressure Control (VTPC)
- Biphasic Pressure Release Ventilation (BPRV)
- Assist/Control Mandatory Ventilation (A/CMV)
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Spontaneous (SPONT)
- Non-Invasive Ventilation (All Breath Types/Modes)

**Spontaneous breath choices:**
- Pressure Support (PS)
- Volume Target Pressure Support (VTPS)

**Back Up Ventilation:** All modes

**Slope/Rise:** Automatic or Manual adjustment 1-19 for PC, VTPC, PS and VTPS breaths

**Pressure Support:**
- Pediatric/Infant: 0 to 50 cmH₂O/mbar
- Adult: 0 to 60 cmH₂O/mbar

**FlexCycle™**

**Expiratory Threshold:**
- Automatic or Manual adjustment 5 – 55% of peak flow for PS and VTPS

**Tidal Volume:**
- Pediatric/Infant: 5 to 1000 mL
- Adult: 100 to 3000 mL

**Resp Rate (Frequency):**
- Pediatric/Infant: 1 to 150 b/min
- Adult: 1 to 80 b/min

**Flow:**
- Pediatric/Infant: 1 to 100 L/min
- Adult: 1 to 180 L/min

**Flow Wave Pattern:**
- Square or Descending Ramp

**Pause:**
- Off, 0.1 – 2.0 sec

**Sigh:**
- Delivers one sigh breath every 100 breaths, sigh VT = 1.5 X VT setting

**Pressure Limit:**
- Pediatric/Infant: 0 to 70 cmH₂O/mbar
- Adult: 0 to 80 cmH₂O/mbar

**Inspiratory Time:**
- Pediatric/Infant: 0.1 to 3.0 sec
- Adult: 0.1 to 5.0 sec

**I:E Ratio:**
- max. inverse 4:1, displayed in real time

**Trigger (sensitivity):**
- P-Pressure Trigger: 0 to -5 cmH₂O/mbar
- Flow Trigger: Pediatric/Infant: 0.1 to 2.0 L/min
  - Adult: 0.6 to 2.0 L/min

**FiO₂ (oxygen concentration):**
- .21 to 1.00

**PEEP/CPAP (Phasic):**
- Pediatric/Infant: 0 to 30 cmH₂O/mbar
  - Adult: 0 to 45 cmH₂O/mbar

**Leak Compensation:**
- (automatic)
  - Pediatric/Infant: 8 L/min max
  - Adult: 15 L/min max
  - NIV: 25 L/min max

**Bias Flow:**
- 3 L/min

**Manual Inflation:**
- 5 seconds max

**O₂ (3 min):**
- Delivers 100% oxygen for 3 min

**Ventilation Standby:**
- Allows settings to be preset and Circuit Check tests to be performed prior to starting ventilation.

**Maneuvers** (Tools for assessing lung dynamics)

- PV Maneuver: quasi-static pressure volume curve
- NIF (MIP): maximum inflation pressure
- P0.1: 100 m sec occlusion pressure
- Insp. Hold: 15 sec max
- Exp. Hold: 20 sec max

**Open Exhalation Valve:**
- Off/On for Biphasic Pressure Release Ventilation (BPRV)

**Volume Target:**
- Off/On for Volume Target Pressure Control (VTPC)

**Event History Log:**
- Records 1000 events, alarms and settings, color coded

**Ideal Weight:**
- 1 - 375 kg

**Weight Units:**
- kg or lb

**Volume Units:**
- mL or mL/kg

**Circuit Check:**
- Automatically tests for leaks, compliance and resistance

**Quick Setup:**
- Establishes new ventilation settings based on an entered Ideal Body Weight, Patient Type and Mode.

**Save and Download:**
- Allows saved screen images and Event History files to be downloaded to a USB flash memory drive

**RS232 Comm Protocol:**
- Communication protocol selection for remote monitoring

**Display Brightness:**
- Adjustable display backlight

**Calibrate Sensor:**
- Exhalation Flow and Oxygen Sensors

**Date/Time:**
- Adjust and format

**Language Selection:**
- For display messages and screen text

**Pressure Units:**
- cmH₂O/mbar

**Circuit Type Compensation:**
- Heated Exp. Limb, Heated Insp. Limb, HME or Test Lung

**Altitude Compensation:**
- 0 - 4000 m (200 m increments)

**Compliance Compensation:**
- On/Off (Volume Control)

Flow/volume compensation: e360T compensates breath delivery and monitoring based on Circuit Type Selection, Altitude and Compliance Compensation.

**Monitored Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<td>Pmean / time</td>
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**Graphics**

- Waves: Pressure-time, Volume-time, Flow-time
- Loops: Volume pressure, Flow volume

**Trends Screens**

- VtE % var / time
- Ppeak / time
- RR / time
- PEEP / time
- MVE / time
- RSBI / time
- VtE / time
- Pmean / time
Audible and Visual Alarms

Adjustable Alarms (via Graphical User Interface)
- Low MV (Exp. Minute Volume)
- High MV (Exp. Minute Volume)
- Low PAw (Airway Pressure)
- High PAw (Airway Pressure)
- High RR (Resp Rate)
- Apnea Delay Time
- Disconnect (threshold %)
- Low and High PAw (Airway Pressure)

Automatic Alarms
- [settings] Out of Range
- Pressure Limit Below Pbase
- Sustained High Baseline Pressure
- I:E Ratio Inverse Violation
- Insp. Time Too Short
- Insp. Time Too Long
- Low and High Baseline (PEEP) Baseline
- Volume Target Not Met

Alarm Features

- Alarm Silence: Mutes audible alarms for 120 sec
- Alarm Loudness: Adjustable 1 - 10
- Alarm Tones: Adjustable 1 - 3
- Back Up Vent: Back up Ventilation supplied in response to Low MV Alarm
- O₂ Sensor: O₂ Sensor Error / O₂ Sensor Disconnect
- Flow Sensor: Flow Sensor Error
- Gas Supply Alarms: Loss of One Gas Supply / Loss of Both Gas Supplies
- Power Fail Alarms: Loss of AC Power / Low Internal Battery
- Power Down Alarm: (audible only)
- Device Alert: Indicator lights and messages are displayed
- Check Vent Fan: Cooling fan failure
- Suction Disconnect: Pre-silences alarms for 120 sec, suspends ventilation after a planned disconnect and senses reconnection to resume ventilation.
- Alarm Reset: Clears visual indicators and messages

Power Requirements

100 – 240 VAC, 250 VA max, 50/60 Hz (± 10%)
2A for 125 VAC, 1A for 250 VAC

Internal Battery: provides an average of 60 minutes of complete ventilator function when new and fully charged.

Gas Supply Requirements

Air and O₂ Supply Inlet Pressure: 30 to 90 psig, 50 psig nominal

External Connections

Remote Alarm: 1/4” stereo jack. Normally open for nurse call or remote system
RS 232C: 9-pin D-shell, 38,400 baud. For use with central monitoring systems.
External Alarm Silence: Input for optional Newport external alarm silence cable
External Battery: 3-pin DIN input for external power, 10VDC to 14VDC
VGA: Input/output for external display monitor
USB: Input/output for connecting a USB flash drive
COM1: Input/output for connecting external touch screen graphical user interface

External Touch Screen User Interface

15” (38 cm) medical grade LCD screen that cables to e360T to link built-in graphical user interface to extra large external touch screen graphical interface
Dimensions: H - 11 in (28 cm) W - 14.76 in (37.5 cm) D - 2 in (5.08 cm)
Weight - 11.7 lb (5.3 kg)

Patient Circuit Connections

Inspiratory and expiratory port connectors: 22-mm OD

The Newport e360T Ventilator System

e360T Ventilator with built-in Graphical User Interface (GUI), built-in Heated Exhalation Valve Assembly and built-in Oxygen Sensor Includes 15” (38 cm) External Touchscreen GUI with mounting arm

E360T-WW-IN (European style plugs/hoses with English* control panel)
E360T-WW-NA (North American style plugs/hoses with English control panel)
*additional language control panels available, call for information

Standard accessories include:
- Two exhalation flow sensors
- Support arm and breathing circuit hanger
- Support arm rail block
- Air and oxygen hoses, 10 ft (3 m)
- Air and oxygen inlet water traps
- Two disposable bacteria filters (for patient ports)
- Operating Manual

Cart sold separately: CRT360A

Contact Newport Customer Service Department for additional accessories and ordering information.