

The Newport HT50® *All-Purpose* Ventilator



Versatility to Meet Every Need

This is the ventilator you've waited for—compact, lightweight, unsurpassed reliability, and self contained. Its comprehensive, versatile features meet the demands of almost any healthcare setting. Suitable for both pediatric (i.e. infant, child & adolescent ≥ 10 kg) and adult patients, for invasive or non-invasive ventilation, the HT50 is easy to use and inexpensive to maintain.

HOSPITAL

- Volume and pressure control, pressure support
- Remote alarm compatible

EXTENDED CARE

- Comprehensive monitoring with alarms
- 50 psi or low flow O₂ mixing options

HOME CARE

- Dual internal battery, up to 10-hours of operation
- Secondary back up battery built-in for added safety
- Self-contained, internal micro-piston gas generator

TRANSPORT

- PEEP/CPAP built in
- Rugged construction

EMERGENCY PREPAREDNESS

- Compatible with any standard NATO biofilter
- Efficient use of power and gas (if oxygen is used)
- 24/7 Clinical and Technical Support



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Breathing care into all we do.

HT50® Ventilator Specifications

PATIENT RANGE	Adult- Pediatric (i.e. infant, child & adolescent) ≥ 10 kg
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CONTROLS/SETTINGS

Modes (Pressure or Volume)	A/CMV SIMV SPONT
Tidal Volume	100 to 2,200 mL
f (Frequency)	1 to 99 b/min
ti (Inspiratory Time)	0.1 to 3.0 sec
PEEP/CPAP	0 to 30 cmH ₂ O/0 to 30 mbar
Psupport (Pressure Support)	0 to 60 cmH ₂ O/0 to 60 mbar*
V (Flow)	6 to 100 L/min
I:E Ratio	1:99 to 3:1
Pressure Control (Target Pressure)	5 to 60 cmH ₂ O/5 to 60 mbar
Ptrig (Sensitivity)	-9.9 to 0 cmH ₂ O/-9.9 to 0 mbar
Panel Lock	ON / OFF
Manual Inflation	3 sec maximum (single operator controlled breath)
FiO ₂ (Optional)	.21 to 1.00
Humidifier (Model HT50-H/H-B)	19° C to 39° C

MONITORED PARAMETERS

Paw (Peak, Mean, Base)	Vt (insp. tidal volume)
Proximal Airway Temperature+	Vi (insp. minute volume)
Internal Battery	f total (total frequency)

ALARMS

▲ Paw (High Airway Pressure)	4 to 99 cmH ₂ O/4 to 99 mbar
▼ Paw (Low Airway Pressure)	3 to 98 cmH ₂ O/3 to 98 mbar
High Baseline Pressure	automatically set
Low Baseline Pressure	automatically set
▲ Vi (High Insp. Minute Volume)	1.1 to 50 L
▼ Vi (Low Insp. Minute Volume)	0.1 to 49.0 L
Back-up Ventilation Alert	
Apnea (Paw/Apnea)	30 sec
Device Alert	malfunction alert
Power Switchover	AC to DC
Low Battery	minimum 30 minutes of back up power remains
Silence/Reset	60 sec
Humidifier +	humidifier fail/high temp

*PEEP + Psupport cannot exceed 60 cmH₂O/mbar

+ model HT50-H/H-B only

PNEUMATICS

Gas Delivery System	internal dual micro-piston
Air/Oxygen Mixer (Optional)	35 to 90 psig oxygen

POWER REQUIREMENTS

100- 240 VAC, max. 2A
50/60/400 Hz
12-30 VDC, max. 12A

INTERNAL BATTERY, DUAL PAC

Primary, 12 V 5 AH provides up to 10 hours operation
Secondary, 12V 2 AH provides emergency back up power for minimum 30 minutes.

DIMENSIONS

Width	10.63 in (27 cm)
Depth	7.87 in (20 cm)
Height	10.24 in (26 cm)
Weight	17.8 lbs (8 kg)
	20 lbs (9.09 kg) with integrated humidifier

MISCELLANEOUS

Operating Temperature	-18° C to 50° C
Operating Altitude	0 to 15,000 ft (0 to 4,572 m)
Operating Humidity	15 to 95% non-condensing
Storage Temperature	-40° C to 65° C
RS-232	8 pin Semconn connector 19,200 Baud Remote Alarm/ Nurse Call can be set for normally open or closed

ORDERING INFORMATION

HT50-H1-B (HT50-H1)	HT50 Portable Ventilator
HT50-H-B (HT50-H)	Ventilator with integrated humidifier
HT460231	Compact stand with support arm
HT460700	Air/Oxygen Entrainment Mixer
HT600044	Oxygen Blending Bag Kit
HT460085	Automotive lighter 12V power cord
HTECH01	E-cylinder holder for stand
BCD 43811P	Disposable breathing circuit



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