Puritan-Bennett LP-20 Ventilator

Basic Description

Manufacturer: Puritan Bennett Corporation

Ventilator Type: Positive Pressure

Invasive

Conventional

Ventilator Class: Intensive Care Unit (ICU)

Transport

Subacute

Patient Population Range: Adult

Long-term (chronic)

Characteristics

Modes--Invasive: Volume-controlled modes ---

ASSIST/CONTROL; SIMV Pressure-controlled modes ---ASSIST/CONTROL; SIMV

Pressure Limit: Locking knob Operating Range of Controls:

sets pressure from 15 to 50 cmH2O/hPa, or disables limit

feature:

Volume: Push-to-turn knob: continuously adjustable from

100 to 2200 ml;

Breath Rate: Set breathing rate: 1 to 20 BPM in increments of 1 BPM and 22 to 38 BPM in increments of 2 BPM;

Inspiratory Time: Set time from 0.5 to 1.0 sec in increments of 0.1 sec, 1.2 sec, and 1.5 to 5.5 sec in increments of 0.5 sec; Breathing Effort: Push-to-turn knob sets pressure level to detect breathing effort (-

10cmH2O/hPa to +10cmH2O/hPa) 9.75"x14.5"x13.25"

Size:

(24.6x36.8x33.6 cm)

Weight: Approx. 35 lbs (15.9 kg) Other Characteristics: Operating Environment:

5°C to 40°C (41°F to 104°F),

10% to 90% RH non-

condensing

Storage Environment:

-15°C to 50°C (5°F to 122°F),

10% to 90% RH non-

condensing;

allow at least 1 hour

temperature stabilization before use when moving from nonoperating to operating

environment

Indicators, Normal Events Patient Pressure Meter:

Displays patient pressure -10 to +100 cmH2O/hPa; can also display battery charge and machine hours of operation; Breathing Effort: Green LED activated by adequate patient

breathing effort;

Power: LEDs indicate operating

power source

green: AC Pwr/Batt Chg; amber: External Battery;

flashing amber: Internal Battery; Resistance Factor: Less than 0.05 cmH2O/hPa/LPM; Emergency Pressure Relief: Approx. 100 cmH2O/hPa;

Flow: 20-100 LPM

Characteristics (Non - Technical)

List Price: \$10745

Other Comments: Originally manufactured by

Aequitron Medical, now owned by Mallinckrodt. Recommend

6000 hr.preventative maintenance or 12 month

recertification.

Specifications

Front Panel Controls: Front Panel Touch Pads

Alarm Silence/Reset: Push button to silence alarm or to reset; used with Battery Test button to read operating hours on Patient Pressure meter; Battery Test: Push button to show charge level on lower window of Patient Pressure

meter;

Front Panel Controls

Mode: Standby, Assist/Control,

SIMV or Pressure Cycle;

Pressure Limit; Low Alarm; High Alarm Limit;

Volume; Breath Rate; Inspiratory Time; Breathing Effort

Alarm Controls: Low Alarm: Set limit for Low

Pressure alarm (2-32

cmH2O/hPa in increments of 2

cmH2O/hPa);

High Alarm Limit: Set limit for

High Pressure alarm

(Assist/Control, SIMV Modes) or limit for Pressure Cycle mode

(15-90 cm H2O/hPa in

increments of 5 cmH2O/hPa)

Non-Adjustable Alarms: Low Pressure/Apnea: Double-

Pulsed tone, flashing red LED; Low Power: Single-Pulsed tone,

flashing red LED;

High Pressure: Single-Pulsed

tone, flashing red LED; Setting Error: Single-Pulsed tone, flashing red LED; Power Switchover: Single-

Pulsed tone;

Loss of Microprocessor Control:

Steady tone;

Every 5 Minutes When Powered by Internal Battery: Reminder

tone;

Each Time Accessory Printer Generates Report: Reminder

tone

Other Specifications: Power Usage Maximum: 630

kW hours per year

Nominal: 315 kW hours per year External Battery: Approximately 20 hours operation with 75-80 ampere-hour 12 VDC deep-

cycle, gel-cell battery;

approximately 10 hours with 35-40 ampere-hour 12 VDC deep-

cycle, gel-cell battery

Internal Battery: Up to 1 hour

operation

Alarms classified by urgency.