IMPACT MODEL 754 SPECIFICATIONS:

OPERATING MODES:
- ACV - with/without PEEP, SI GH, and PRESSURE PLATEAU
- SIMV - with/without PEEP, SI GH, and PRESSURE PLATEAU
- CPAP - with/without PEEP
- CMV - for APNEA backup of ACV, SIMV and CPAP

DELIVERABLE GAS(ES):
- Air (Internal Compressor, External 50-PSI); Oxygen (External 50-PSI)

TIDAL VOLUME RANGE:
- 0 to 3000 ml

I:E RATIO:
- 1:1 Preset, Adjustable 1:1 to 1:599

SENSITIVITY:
- Default, 1.5 to 2.0 cmH2O; adjustable, 1.0 to 6.0 cmH2O

FLOW RATE:
- Adjustable, 0 to approximately 60 LPM (0 to approximately 1000 ml/SEC)

VENTILATION RATE:
- Adjustable, 1 to 150 breaths per minute, resolution 1 breath per minute (+/- 1 digit on the LCD)

INSPIRATION TIME:
- Adjustable, 0.1 to 3.0 seconds, resolution in 0.1 second increments (+/- 1 digit on the LCD); 1:2 I:E RATIO Preset

FiO2:
- Adjustable, 21% to 100% (Internal Air/ Oxygen Mixer), resolution in 1% increments, accurate to within +/- 10%

LOW PRESSURE ALARM:
- Adjustable, 0 to 50 cm H2O, resolution in 1 cmH2O increments (+/- 1 digit on the LCD)

HIGH PRESSURE ALARM:
- Adjustable, 15 to 100 cm H2O, resolution in 1 cmH2O increments (+/- 1 digit on the LCD)

PEAK INSPIRATORY PRESSURE RELIEF:
- Adjustable, 15 to 100 cmH2O, resolution in 1 cmH2O increments (+/- 1 digit on the LCD)

PRESSURE PLATEAU:
- Range, 5 to 90 cmH2O (referenced to HIGH PRESSURE ALARM set-point)

ASSIST/SIMV SENSITIVITY:
- Default, 1.5 to 2.0 cmH2O below end pressure (see USER PROGRAMS)

PEEP:
- Program range 1 to 20 cmH2O, resolution in 1 cmH2O increments (+/- 1 digit on the LCD)

SI GH:
- Occurs once every 100-ventilations or 7-minutes, whichever occurs first. SI GH duration = 150% Vt (truncated or combined maximum of 3-sec)

LIQUID CRYSTAL DISPLAY:
- EXTERNAL AIR, SI GH, PEEP, PRESSURE PLATEAU, HIGH PRESSURE ALARM SETTING, LOW PRESSURE ALARM SETTING, VENTILATION RATE, INSPIRATION TIME/ I:E RATIO, TIDAL VOLUME, AIR/ OXYGEN MIXER, MODE, INSPIRATION/EXHALATION, POWER, PEAK AIRWAY PRESSURE, MEAN AIRWAY PRESSURE, DIGITAL BAR GRAPH, HIGH/Low, AIRWAY PRESSURE ALARM SETPOINT INDICATORS, Paw

LED INDICATORS:
- CHARGE/ALARM/SYSTEM FAILURE

LCD DIGITAL BAR GRAPH:
- Range -10 to 100 cmH2O

LCD ALARM DISPLAY:
- BATTERY LOW, EXTERNAL POWER LOW, LOW PRESSURE, O2 LOW/FAIL, DISCONNECT, HIGH PRESSURE, APNEA, VT, HIGH PEEP, EXT AIR LOW/FAIL, FL O2, INVERSE I/E, COMP, PRESSURE ALARM SETTINGS, TRANSDUCER CALIBRATION, TRANSDUCER CALIBRATION ABORT, SYSTEM FAILURE, VENTILATOR FAIL, INSPIRATION TIME TRUNCATED TO 3-SECONDS, PLATEAU VOLUME, PREVENTATIVE MAINTENANCE DUE, VT SETTINGS, EXTENDED NON-USE/STORAGE, EXTERNAL POWER FAILURE
(754 SPECIFICATIONS cont’d):

USER PROGRAM MENU: LCD Backlight Threshold, LCD Contrast, Trigger Level Sensitivity, Spontaneous Flow, Demonstration Mode

LED ALARM INDICATORS: ALARM, SYSTEM FAILURE

ALARM VOLUME: 80 dBA @ 1 ft

MANUAL BREATH TRIGGER: Yes

ALTITUDE COMPENSATION: Yes

INTERNAL BACKUP VENTILATOR: Yes

RS-232C COMMUNICATIONS PORT: Yes

NOISE LEVEL: Less than 80 dBA when measured @ 1-meter (compressor operating)

OPERATING VOLTAGES
VENTILATOR: 11-15 volts, DC (negative ground)

UNIVERSAL AC POWER SUPPLY: Model 754 (standard) - Input: 100 to 240 VAC, 50/60 Hz, auto-sensing 0.55-1.33A, 133W. Output Voltage is 13.0VDC, 6A, 78W. Shock Protection: Type B, Class I

OPERATING TIME
INTERNAL BATTERIES: 3-hours, maximum, using internal compressor
12-hours using external gas
EXTERNAL AC: Continuous
EXTERNAL DC: Continuous

TEMPERATURE RANGES
OPERATING: -25°C to 49°C (-13°F to 120°F)
CHARGING: -20°C to 50°C (-4°F to 122°F)
LONG TERM STORAGE: 10°C to 30°C (50°F to 80°F)

SIZE
VENTILATION SYSTEM: 8.87” Wide x 11.5” High x 4.5” Deep
(22.55 cm Wide x 29.21 cm High x 11.43 cm Deep)
AC POWER SUPPLY (STANDARD): 7.75” Wide x 2.62” High x 4.75” Deep
(19.69 cm Wide x 6.65 cm High x 12.07 cm Deep)

WEIGHT
VENTILATION SYSTEM: 13 lbs
(5.8 Kg)
AC POWER SUPPLY (STANDARD): 3 lbs
(1.36 Kg)

CERTIFICATION: EMI/RFI (includes aeromedical)

WARRANTY: Limited, 1-year (see LIMITED WARRANTY statement)

Note: Impact Instrumentation Inc., reserves the right to change these specifications without prior notification.