Bi-Level Device

air inlet/filter

AC Power Main 85 to 264 V AC

power supply

blower driver

current measurement

blower

patient outlet/ flowmeter

flow sensor

trigger circuit

outlet air filter

patient circuit

proximal pressure tube

patient

DC Power External Battery 12 V DC

Microcontroller

Blower Control

current analysis

flow & volume analysis/ triggering/ patient compliance/ altitude flow compensation

pressure analysis/ leak compensation/ altitude pressure limitation

program memory

cooling fan

LCD module

keyboard module switches & LEDs

RS-232, IE trigger program enable

data storage

real time clock and battery

data

control

atmospheric pressure sensor

proximal pressure sensor

audible alarm

alarm battery