



Low-tech emergency ventilator (draft)

This ventilator, made mostly with readily available parts, takes pressurized medical air and oxygen from the hospital central system and injects it into a breathing mask, tube or similar apparatus through a low-tech system that allows a somewhat precise pressure control, can be configured for volume control through the duty cycle of the valve inspiration phase by using a microcontroller with input section and pressure information, and would filter the output stream to some extent.

Advantages: all the components are readily available, and only one microcontroller, 16 servos, 48 water bottles and some tubes are enough for 16 patients, taking air from the the medical air outlet of the hospital room using a round-robin scheduling method optimized to manage the pressure changes during the valve opening.

Disadvantages: the suggested materials and procedures are all but orthodox and safe; as far as possible, the listed items should be ignored.

Helio - 0x2b3bfa0

