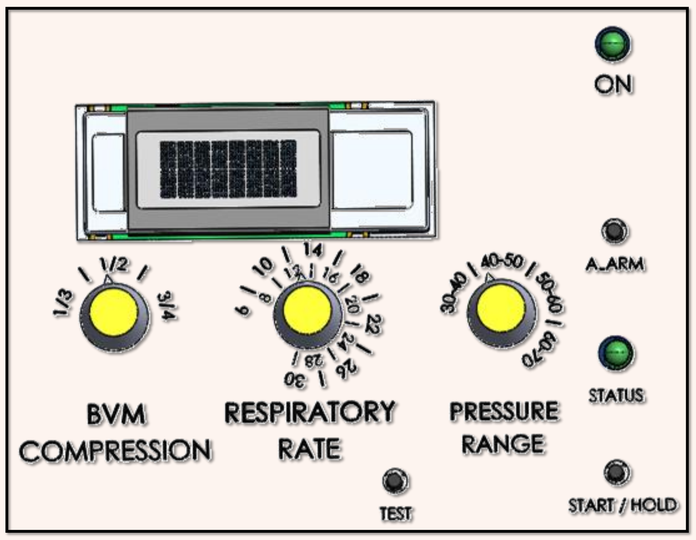
Specifications

- Volume control ventilation (VCV) machine
- 3 tidal-volume respective to (33%, 50%, 75%) of the bag total volume
- 11 ventilation rates ranging from 6 to 24 cycles per minute
- 5 ventilation steps between 30-70 cmH2O, of not-to-exceed inspirium pressure
- Electrical Source 110/220V
- Batteries Backup (2 hours duration)
- Visual and Vocal Alerts: Batt. On | Low Batt | Hose disc. | Vent. rate fail. | Extreme Pressure
- Ventilation pressure continuous monitoring
- IOT-based system, to monitor multiple patients

UI-UX Specifications



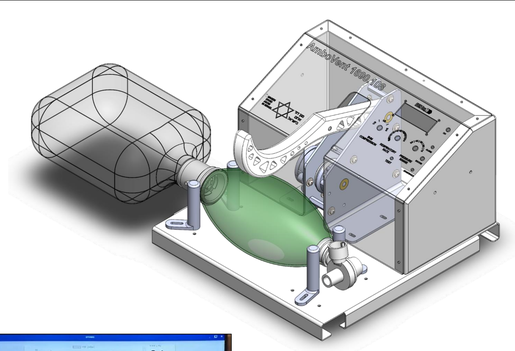
Emergency ventilation initiative coming out of Israel

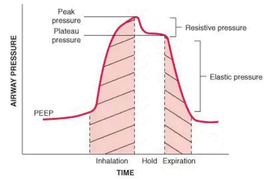
Who is behind it?

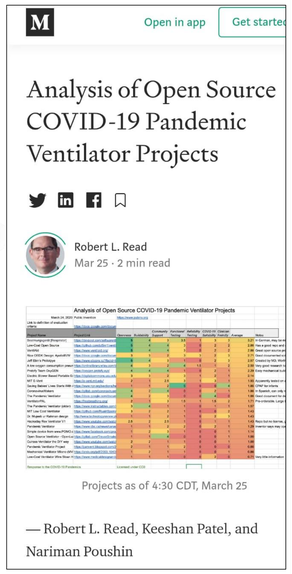
Lead by the CTO & innovation leader of the Israeli Air-Force 108 Electronic Depot and backed by a large community of innovators behind him

To include:

40 Professional Volunteers - Israel's national EMS, Physicians from leading Israeli hospitals such as Tel Aviv Sourasky and Hadassah JLM as well as other medical centers, Engineers, First Israel mentors and students, The Haifa Technological Center Rafael and Israel Aerospace Industries, IAF Unit 108, The garage program by Microsoft Israel and others..



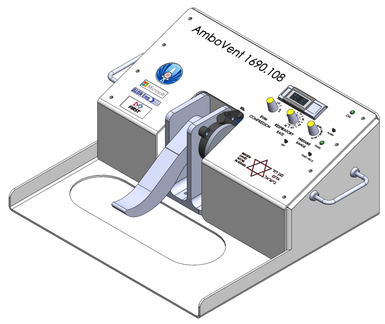


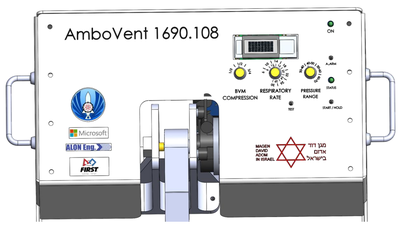


Rated by Robert Lee Reed as the leading solution in this category, among 40 other initiatives

AmboVent 1690.108

Automatic, Controlled Resuscitator Device





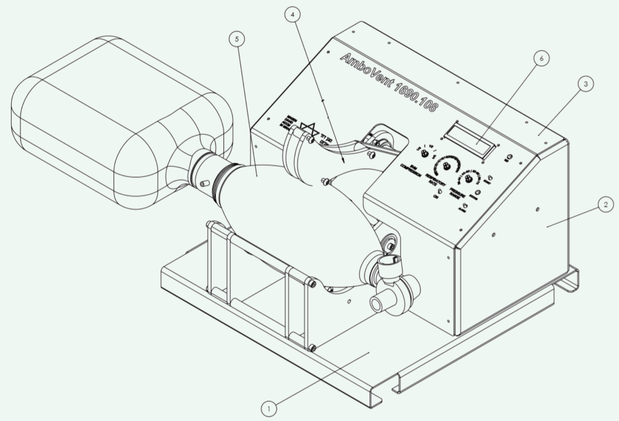
Emergency ventilation alternative system

Global Partnership for the Greater good

Leading Open Source Code Mentality Initiative

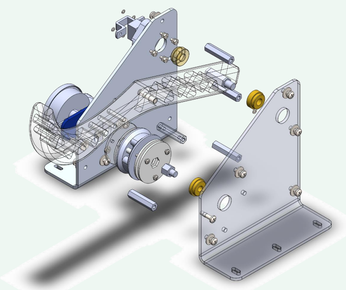
Documentation

- Files are available in an ANSI-metric standard
- Mechanical model design source-code files are provided in a Parasolid format (.X_T)



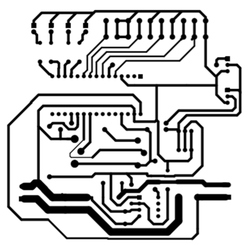
Getting Ready for Production

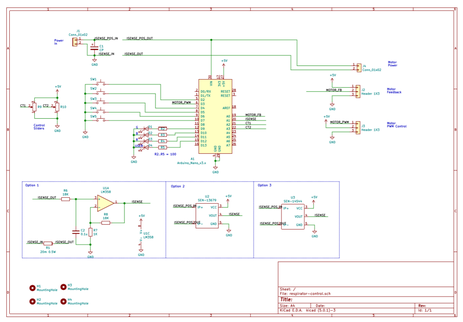
- Materials: Aluminum, Akulon-nylon6
- Metallic painting capacities
- FDM based 3D printing machines
- Factory assembling capabilities
- CNC, Punch, Bend manufacturing Capabilities
- Printing on Lexan



Off the Shelf Components

- Hex Shaft Snowblower motors
- Spark mini Motor Controller
- ArduinoNano
- SparkFun Pressure Sensor





Validation and Tests

- Supports Rapidly Manufactured Ventilator System specifications
- Evaluated in Tel Aviv Sourasky hosp.
- Tested in Flex labs
- Calibrated in Rambam hospital

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Emergency Ventilation System