Over 100,000 people in the developing world have cystic fibrosis, which causes thick mucus to build up in the lungs and obstruct breathing.

Our partner, CF Vests Worldwide, donates air powered oscillating vests to people in need. Currently they rely on used vests which are often near the end of their useful life, along with sizing and other issues. The VitaLung Vest is purpose-built to be affordable, adjustable, and life-saving.

### The VitaLung Vest

The Vitalung Vest is comprised of both a wrap-around vest (left) and an air unit (right), connected by flexible hoses.

### Key Components

**Micronel Radial Blower**
Rated at a maximum back-pressure of 1.9 psig, this blower allows for the buildup of pressure inside the vest.

**Norgren Solenoid Valve**
Having a flow coefficient of 1, this valve allows for the proper exhaust of air inside the vest to generate compressions.

**Vest Bladder**
Our 360-degree mylar vest partition design allows for compressions all around the patient’s body, increasing squeezing force.

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### Vest Temperature Testing

Temperature of the air, with an increase of 8°C between standby and operation mode.

### Vest Performance Testing

Characterizes the exact vest pressure for three levels of treatment intensity.

### Acknowledgements:
Prof. Tyler Susko, Prof. Paolo Luzzatto-Fegiz, Dr. Trevor Marks, Rob Spadinger and CF Vests Worldwide, Prof. Alban Sauret, Prof. Ilan Ben-Yaacov, Dave Adornetto and NVC, Dr. Myron Liebhaber, Dr. Jeffrey Kupperman, and all our interviewees.