



# Virtus Metabolic Monitor ECMO

Simple and Cost Efficient Indirect Calorimetry



Virtus Metabolic Monitor *ECMO* allows continuous and non-invasive measurement of oxygen consumption ( $VO_2$ ) and carbon dioxide production ( $VCO_2$ ), plus calculation of respiratory quotient (RQ) and energy expenditure (EE) for patients receiving both ventilatory support and ECMO support.

## Virtus Metabolic Monitor features →



### Simple and Easy patient connect

All Respiratory parameters on a single screen – Automatic Region of Interest for fast analysis – for both Airways and ECMO measurements.



### Low cost of maintenance

No built-in short term use sensors compared to monitors using time-limited sensors (Galvanic O2).



### One Monitor – For complex ICU patients

Easy assessment of REE for ECMO patients.



### Fast and Easy setup

No Calibration required before monitoring.



### Battery powered for up to 3 hours.

Hassle free operation and easy switch between patients.



### Simple and Lean, yet High-Quality

Makes the Monitor affordable compared to others.

# Virtus Technology

## Virtus Metabolic Monitor *ECMO* is Easy To Use

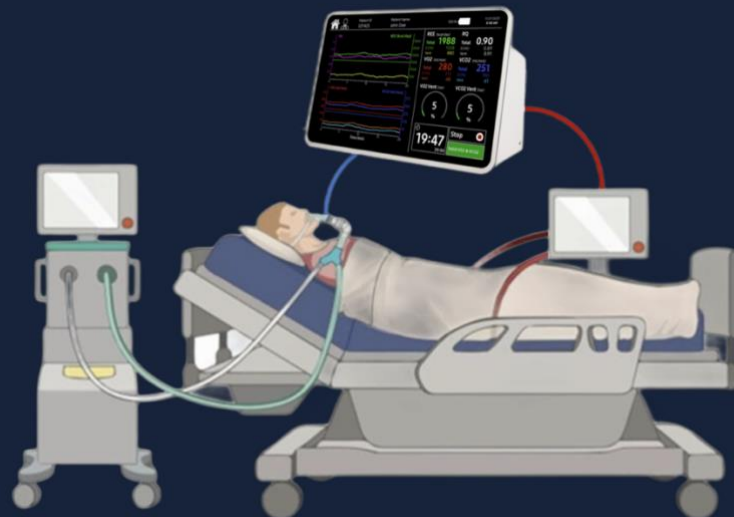


## Virtus Metabolic Monitor *ECMO* is Unique

Patients receiving both ventilatory support and ECMO support, the total oxygen consumption (VO<sub>2</sub>) and carbon dioxide production (VCO<sub>2</sub>) – gas exchange, and hence the Resting Energy Expenditure (REE), can be difficult to assess, since gas exchange takes place both across the lungs and the ECMO membrane oxygenator.

With Virtus Metabolic Monitor *ECMO* you can easily assess these parameters, since the VO<sub>2</sub>/VCO<sub>2</sub> measurement at the lung is performed as in any other patient on ventilatory support, and the VO<sub>2</sub>/VCO<sub>2</sub> measurement is performed at the membrane lung which is taken from either the gas outlet and/or the gas inlet of the ECMO membrane oxygenator, thereby calculating the total REE for the patient.

With Virtus Metabolic Monitor *ECMO* you can assess these parameters simultaneously and easily, which minimizes the intervention by the healthcare personnel.



Virtus Metabolic Monitor



Use your mobile device and scan the QR-code

Visit our website  
[www.virtusmonitor.com](http://www.virtusmonitor.com)