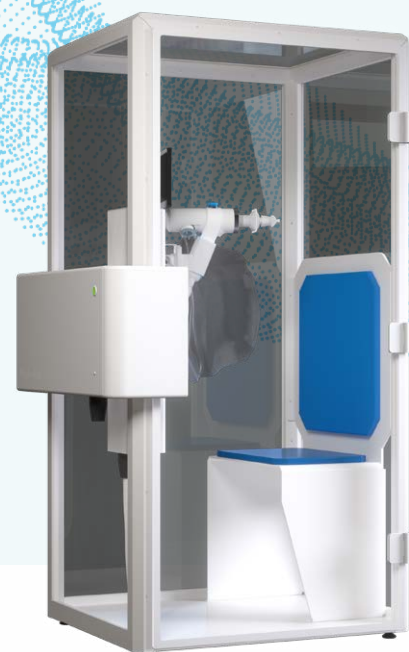


# VitaloQUB

## Datasheet

A patient centred design ensures the most comfortable, seamless and enjoyable testing workflow possible. The VitaloQUB features a low step height for easy access and with a stable bench seat supporting up to 250kg. With an integrated patient incentive screen and many more features as standard, the VitaloQUB is the clearest choice for any pulmonary function laboratory wanting to measure whole body plethysmography and airways resistance.

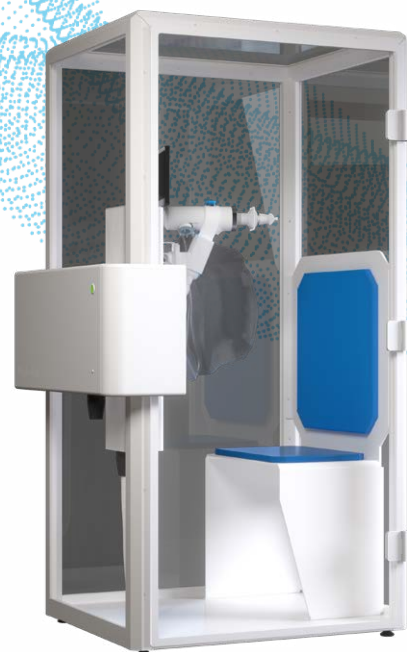


## Technical Specifications

<b>Product</b>	Model 9160 Vitalograph Morgan PFT - VitaloQUB
<b>Model</b>	9160
<b>Essential Performance</b>	The essential performance of the Plethysmograph device is to form a seal within the patient cabin, so that VTG and Airways Resistance can be measured by the VitaloQUB system.
<b>Essential Performance Test Limits</b>	Pressurization target: 0.33cmH <sub>2</sub> O Leak Target: 0.10 cmH <sub>2</sub> O
<b>Flow detection principle</b>	Heated Lilly type pneumotachograph
<b>Back pressure</b>	Less than 0.15kPa/L/second @ 14L/s, complies with ISO26782:2009
<b>Volume detection</b>	Flow integration sampling @ 100Hz
<b>Volume accuracy</b>	Within ±2.5% or ±75 mL
<b>Voltage/Frequency</b>	24-240V; approximately 50/60 Hz
<b>Flow accuracy</b>	Within ±2% over the range of -14 to +14 L/s
<b>Flow Measurement Range</b>	Max. flow rate ±14 L/s Min. flow rate ±0.2 L/s
<b>Operating temperature range</b>	ISO26782 limits: 17–37°C Design limits: 15–32°C
<b>Operating humidity range</b>	30%–75%
<b>Ambient pressure range</b>	850hPa–1060hPa
<b>Shutter Valve</b>	Pneumatic spring-return cylinder
<b>Performance standards the VitaloQUB meets or exceeds</b>	ISO 23747:2015, ISO 26782:2009, ATS/ERS: 2019
<b>Safety standards</b>	EN 60601-1:2006 + A1:2013
<b>EMC standards</b>	EN 60601-1-2:2015
<b>QA/GMP standards</b>	EN ISO 13485
<b>Size</b>	970 mm x 750 mm x 1750 mm
<b>Weight</b>	120 kg

# VitaloQUB

## Datasheet



## Technical Specifications (contd.)

Communications	1 x USB, 1 x HDMI, 1 x Sound Jack
Software	Morgan Scientific ComPAS2 Reference Manual (Vitalograph Morgan PFT Range) 510(k): K190568

### Note:

- The specified operating temperature and humidity ranges apply to the device plus accessories.
- The Patient Valve is a type BF applied part. The device body or other accessories are not applied parts. An applied part is a part of the equipment that in normal use necessarily comes into physical contact with the subject for the equipment or system to perform its function.
- Vitalograph will make available any information necessary to assist Service Agents to repair parts, such as circuit diagrams, part lists, descriptions, calibration instructions or other information.