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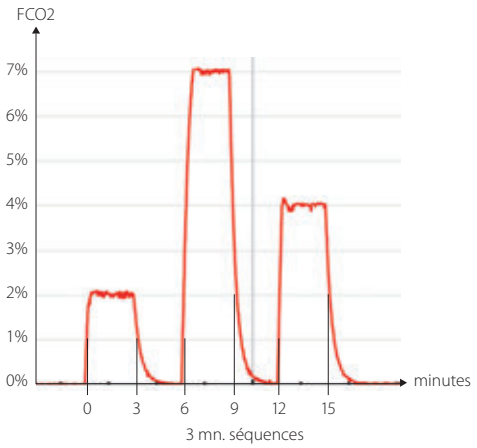
# VarioCap

## MR-COMPATIBLE NORMOBARIC AIR/CO2 MIXER FOR HYPERCAPNIC VASOREACTIVITY STUDIES ON HUMANS

- Gas mixture produced:
  Air + CO2. CO2 fraction (FCO2) can be customised at demand and modified quickly. Remote control from computer placed in the control room. Can be synchronized to the MRI scanner by trigger signal.
  Hypoxia condition available on request.

- The subject breathes the gas mixture through a mask directly connected to VarioCap.
  VarioCap is placed near the MRI patient bore so as to minimize the tubing length.

- Sequences of FCO2 values can be programmed and synchronized to MRI acquisition using the MRI scanner trigger signal.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VarioCap must be supplied with CO2 (bottle) and air gas. The gas bottles are placed outside the magnet chamber. VarioCap can be connected to the remote control computer using USB port (via Optical fiber extender).

# VarioCap Technical Characteristics

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|---|---|
| Main characteristic | Can be placed in the magnet room |
| Principle | Gas Mixture production at demand |
| CO2 fraction | From 0% up to 10% |
| Transition time (T90) | Less than 15 seconds |
| Control and synchronisation | Programmable ranges and synchronisation via MRI scaner trigger |
| Air supply | Compressed gas cylinder or wall air plug |
| CO2 supply | Compressed gas cylinder |
| PO2 monitoring | Electrochemical sensor |
| PCO2 monitoring | Thermal conductivity sensor |
| Monitoring electronics | By microprocessor |
| Breathing tubing | Ultra flexible, 180 cm standard length can be custumisez |
| Breathing mask | Sterilizable silicone with valves |
| Electric power consumption | 15W maximum |
| Electric power supply | 100-220 V |
| Weight | 8Kg |

**VarioCap**

Made in Switzerland by SMTEC SA
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