Ideal solution for high accurate measurements during exercise in research and elite sport applications

- High accuracy at steady state
- Either low and high ventilation ranges
- State-of-the-art two-way non-rebreathing valve
- High comfortability and easy to assembly
- New flowmeter calibration procedure

The mixing chamber kit allows metabolic assessment through a full range of low to high minute ventilation rates during exercise testing. Transforming your COSMED breath by breath system into a mixing chamber sampling device is particularly easy and it maintain similar comfortability standards to the tested subject.

The new version of the mixing chamber has been designed to increase accuracy of measurements at the maximum level.

The kit consists of a 8.6 litres plexiglas box with internal baffles to facilitate mixing. Mixed gas concentration and expiratory flow are measured continuously near the outlet of the box with the turbine flowmeter and the sampling line are placed at the exhalation port of the mixing chamber.

Subjects wear a face mask or a silicone mouthpiece attached to a two-way non-rebreathing valve (all included in the kit) connected to a plastic hose for transfer of expired air to the mixing chamber.

For higher intensities exercise protocols, an optional plastic head-support is provided to support the subject during exercise.

A new dedicated flowmeter calibration specific for the mixing chamber test is available with the new OMNIA 1.3 software. Performed with the 3L syringe, the new calibration improves accuracy of the ventilation as the device is calibrated in the exact conditions that are available during testing.
The new set-up options (face mask or silicone mouthpiece) available with the mixing chamber module.

New volume calibration specific to the Mixing Chamber test.