BRINGING PRECISION CONTROL TO MEDICAL GAS BLENDING

RESPIRACT® CLINICAL

End-Tidal Gas Control System

Set an Exact $P_{ET}CO_2$ and $P_{ET}O_2$ Target, Accurately Monitor and Reliably Repeat

RespirAct® Clinical provides a non-invasive, MRI-conditional*, technologically advanced means to confidently control the rate, timing and blend of medical gases specific to an individual patient's needs. **RespirAct® Clinical** targets $P_{ET}CO_2$ and $P_{ET}O_2$ independent of each other, allowing for manipulation of both, or one, sequentially or simultaneously. **RespirAct® Clinical** can implement patterns of changes in $P_{ET}CO_2$ and $P_{ET}O_2$ such as box-car steps, steady ramp, and sinusoidal changes. This occurs independently of how hard a patient breathes or the pattern of breathing, making **RespirAct® Clinical** an optimal tool for computer-controlled gas blending+.

A standardized stimulus is achieved with **RespirAct® Clinical** ensuring that tests are repeatable. This reduces the variability of the stimulus, minimizes the test-to-test variability, increases sensitivity, saving time and money.

*Operates in magnetic environments up to 500 gauss
+The system must be used only with **RespirAct® Clinical Consumable Patient Masks** supplied

THORNHILL MEDICAL
Inspiring Innovation

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RESPIRACT® CLINICAL

INTENDED USE

To enable qualified personnel to set, monitor and control gas flows of medical grade gases (Medical Air, CO_2 and O_2) during medical procedures.

INTENDED ENVIRONMENTS

Hospital, research institution or laboratory environments, and MR suites.

INTENDED USERS

Trained persons under the direct supervision of a physician in compliance with approved research and/or clinical protocols. Operators should understand and utilize the User Manual.

INTENDED POPULATION++

Spontaneously breathing patients
Respiratory rates between 6 and 30 breaths per minute
I:E ratios between 1:1 and 1:3

Patients with weight between 30 kg and 100kg
Peak inspiratory flow rates up to 200 LPM

Patients with height between 100 cm and 225 cm
Minute ventilations between 3 and 30 LPM

DURATION OF USE

For a procedure not exceeding 1 hour in length.

Health Canada

++ For contraindications to use, please refer to Operator's Manual.

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