

The Clear Solution for Carbon Monoxide Poisoning

CLEARMATE™

Deadly, odourless CO inhalation is the world's most common type of poisoning. When treating CO poisoning, every second counts. When inhaled, CO effectively starves the brain and internal organs of oxygen. The longer a patient remains untreated, the more the brain and internal organs are damaged, often irreversibly. Treatment for CO poisoning must be accessible, early and effective. **ClearMate™** delivers.

Every Second Counts

The revolutionary, portable **ClearMate™** lets you treat CO victims as effectively as hyperbaric oxygen, without delay. Since treatment starts much sooner, CO elimination is much faster.

ClearMate™ is designed to provide the earliest possible treatment for CO poisoning, whether that be at the scene of poisoning, in a rescue vehicle, or hospital emergency department*.

ClearMate™ is easy to set up and use, requiring minimal training to provide life-saving treatment.

No Electricity Required

The compact and portable **ClearMate™** requires no electricity to operate.



**THORNHILL
MEDICAL**
INSPIRING INNOVATION

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CLEARMATE™

SPECIFICATIONS

The Science

Increased ventilation with CO₂ control. ClearMate™ works by eliminating CO through the lungs by increased patient ventilation (either spontaneously or via a manual resuscitator). Brain blood flow and oxygen delivery is maintained by infusing CO₂ automatically to compensate for that lost via increased ventilation. This technique is referred to as Isocapnic Hyperpnea.

1. Fisher JA, Sommer LZ, Rucker J, Vesely A, Lavine A, Greenwald Y, Volgyesi G, Fedorko L, Iscoe S (1999) Isocapnic hyperpnea accelerates carbon monoxide elimination. Am J Respir CritCare Med 159: 1289--1292
2. Takeuchi A, Vesely A, Rucker J, Sommer LZ, Tesler J, Lavine E, Slutsky AS, Maleck WH, Volgyesi G, Fedorko L, Iscoe S, Fisher JA (2000) A simple 'new' method to accelerate clearance of carbon monoxide. Am J Respir Crit Care Med 161: 1816--1819

Weight: 6.2 kg (13.7 lbs.)

Dimensions: 33 cm (13") L x 39 cm (15") W x 7 cm (3") H

Temp-Operating: 5 °C to 40 °C (41 °F to 104 °F)

Temp-Storage: -20 °C to 60 °C (-4 °F to 140 °F)

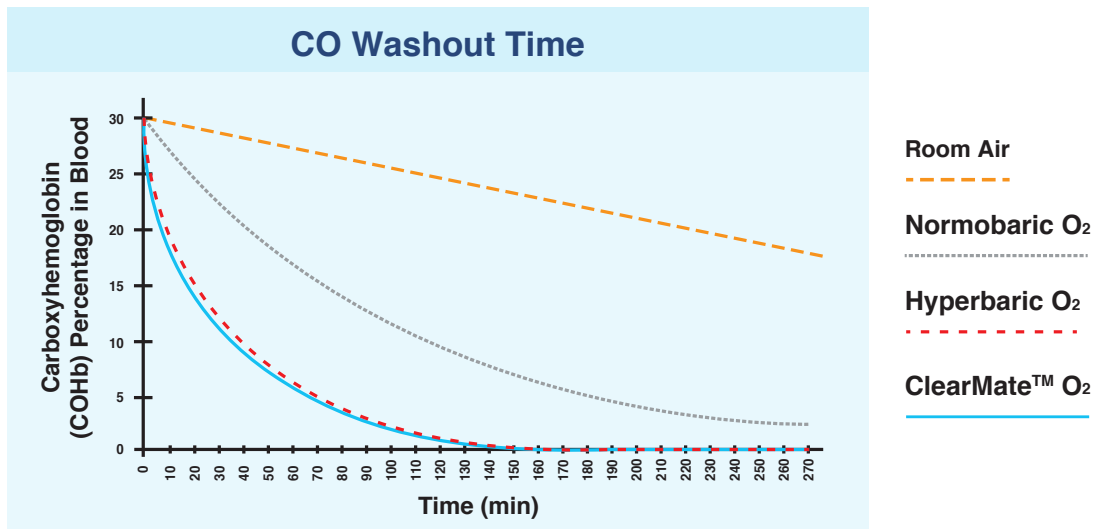
Humidity: IPX4

Altitude: BS EN 1789:2007 (Medical vehicles & their equipment – road ambulances)

Power: None

CE 2797 FDA Cleared*  Health Canada

*ClearMate™ is restricted to hospital use ONLY in the United States of America.



Adapted from: Fisher JA, Sommer LZ, Rucker J, Vesely A, Lavine A, Greenwald, Y, Volgyesi G, Fedorko L, Iscoe S (1999) Isocapnic hyperpnea accelerates carbon monoxide elimination. Am J Respir Crit Care Med 159:1289-1292.



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