



INSPIRA™ ART 100

**EMERGENCY-READY
LIFE-SUPPORT SYSTEM.
ALWAYS PREPARED.**

inspira™ Breathing.
Empowered.™

Why Emergency Readiness for Heart & Lung Failure is Critical?

Unexpected Disasters Pose Growing Risks

In recent decades, countries worldwide have faced increasingly frequent disasters: pandemics, wildfires, toxic inhalation events, chemical and industrial accidents, as well as mass casualty incidents and conflict zones¹.

Most often, respiratory and cardiac failure emerge as major threats².

In such crucial moments, rapid intervention is essential to save life. These critical situations demand fast, reliable support to stabilize patients before they reach full hospital care^{3,4}.

INSPIRA™ ART100: Oxygen Delivery Straight into the Blood

The INSPIRA™ ART100 is designed to provide temporary heart and lung support. It connects to the patient through two cannulas inserted into major blood vessels, draws blood out, oxygenates it, and returns it to help maintain vital organ function and stabilize the patient until advanced clinical care is available.



Ready for critical minutes. Built for long term.

The INSPIRA™ ART100 system is engineered for operational flexibility, enabling oxygenation outside-the-body in a wide range of clinical scenarios.

- Rapid delivery of oxygen to the brain and vital organs, enabling a bridge to recovery.
- Enables safe transitions and timely treatment by supporting both pre-hospital and hospital-based use.
- Designed for streamlined emergency deployment, reducing setup complexity in critical conditions.



PPE-Compatible 13" Touchscreen

Big, bright LED interface maintains clarity in low-light conditions.



Portable & Lightweight (<12 kg)

Compact for flexible storage and rapid deployment in emergency settings.



Reliable Power Supply

Over 4 hours of battery plus manual pump backup for uninterrupted care.



Real-world Clinical Experience

In use at top U.S. hospitals. FDA & AMAR clearance.



Stockpile-Ready

Validated for long-term storage, with periodic validation checks provided by the manufacturer.



Guided Setup & Intuitive Interface

On-screen checklists and user-friendly design enable quick activation with minimal training, reducing stress during critical response.



Standard Disposable Compatibility

Works with CE/FDA-cleared extracorporeal disposables.



A NEW STANDARD IN EMERGENCY MEDICAL RESERVES

Technical Specifications

Dimensions (W x H x D)	13" X 9" X 18" / 33 cm X 23 cm X 45 cm
Weight	26.5lb. / 12kg
Speed	0-3,600 RPM
Flow	0-8 LPM
Backup	Emergency Manual Drive (easy switch to / from)
Touch Screen	13.3" Full-HD

Compatible with 3rd party centrifugal pumps and oxygenators

Battery operation time: greater than 4 hours under typical conditions

Sensors	<ul style="list-style-type: none"> - Flow / Bubble sensor (3/8" and 1/4" tubing) - Pressure x3 - Temperature
INSPIRA™ CART	<ul style="list-style-type: none"> - Controller angle adjustment - Protective frame - Heater/cooler shelf - Multiple mounting options

inspira™

| Nasdaq: IINN

Inspira™ was incorporated in 2018 with a clear mission: advancing respiratory and life-support care through innovation.

The company is developing novel life support solutions with Inspira™ blood oxygenation and blood monitoring technologies. Inspira™ is on a quest to become a ground-breaking medical device company with business alliances worldwide.

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This leaflet is for informational purposes only and does not constitute medical advice. Always consult a qualified healthcare professional for medical guidance specific to your situation. The INSPIRA ART100 system is approved for cardiopulmonary bypass (CPB) in the U.S. and may be used also for CPB and ECMO (Extracorporeal Membrane Oxygenation) procedures outside the U.S, subject to local regulatory authorization. For indications, safety information, cautions and warnings - please refer to the Instructions For Use. Copyright © 2018-2025 Inspira™ Technologies OXY B.H.N. LTD., All rights reserved. MRK-ARS-152 Rev.1 | July 2025

References: 1. World Health Organization. Emergency Medical Teams: Minimum Technical Standards and Recommendations for Deployment, 2nd ed. (2021). 2. ELSO. Guidelines for ECMO in Mass Casualty Events. Extracorporeal Life Support Organization. (2020). 3. U.S. Department of Health and Human Services. National Special Pathogen System of Care Strategy (ASPR, 2022). 4. OECD. Health System Resilience: Lessons from the COVID-19 Pandemic (2021).