



INSPIRA™ ART100

**IMMEDIATE LIFE SUPPORT.
ANYWHERE.**

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INSPIRA™ ART100

BRINGING ECMO-POWERED RESUSCITATION
TO THE CRITICAL MINUTE

EVERY MINUTE COUNTS IN CARDIAC ARREST

Conventional CPR often fails to restore spontaneous circulation after cardiac arrest.

As time passes without effective oxygenation, the chances of survival decline rapidly, particularly in out-of-hospital settings where advanced support is delayed.

When CPR Fails – WHY EARLY ECMO MATTERS

ECPR—Extracorporeal Cardiopulmonary Resuscitation delivers critical oxygenation when CPR is insufficient. Studies show that earlier initiation of ECMO after cardiac arrest may significantly improve survival with favorable neurological outcomes.

Expanding lifesaving support beyond hospital walls FROM CPR TO RECOVERY

Most ECPR procedures are initiated either inside or outside hospital settings. The INSPIRA™ ART100 system is designed for operational flexibility, supporting early extracorporeal oxygenation wherever required.

- Enables rapid oxygen delivery to the brain and other vital organs, providing a bridge to recovery.
- Offers clinical teams a critical time window during transport, allowing for a safer transition into hospital-based diagnosis and treatment.
- Designed for rapid deployment in emergency settings, simplifying complex procedures.

4–6

Critical Minutes

After ~4 minutes without oxygen, brain injury begins.¹

~10%

Survival Rate

Only ~10% survive cardiac arrest outside hospital.²

43%

ECPR Success

43% of patients survived with ECPR vs 7% with CPR only.³

Based on inclusion criteria from the ARREST trial: witnessed arrest, ≥3 CPR attempts, transport ≤30 min.



How Does It Work?

1



CRISIS DETECTED

Cardiac arrest occurs, emergency teams respond.

2



INSPIRA™ ART100 ACTIVATED

Portable system is deployed—quick connection, minimal setup.

3



BLOOD OXYGENATED

INSPIRA™ ART100 oxygenates blood and perfuses brain and vital organs.

4

HOPE RESTORED

The patient is stabilized to enable further evaluation and treatment.



INSPIRA™ ART100

COMPACT . MOBILE . ACCESSIBLE



Visual support tools

On-screen checklists, troubleshooting.



Real-world clinical experience

System is in use at leading U.S. hospitals
FDA clearance (U.S.) Obtained May 2024
Israeli AMAR certification received July 2024



Portable

Lightweight <12 kg,
large digit transport mode.



Built-in safety systems

Multiple sensors, redundant power, manual pump backup.



Short ramp-up time

Step-by-step guidance, intuitive interface.



Long Battery Life

More than 4 hours of battery, Keeps running anywhere.



Works with CE/FDA-Cleared disposables

Simple, reliable logistics.

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

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| 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. ECPR procedures should be performed using devices classified and approved for ECMO (Extracorporeal Membrane Oxygenation) use, in accordance with local regulatory frameworks. 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-150 Rev.1 | June 2025

References: 1. AHA CPR & ECC Guidelines 2020; 2. Benjamin EJ et al., Circulation 2019; 3. Yannopoulos D et al., Lancet 2020