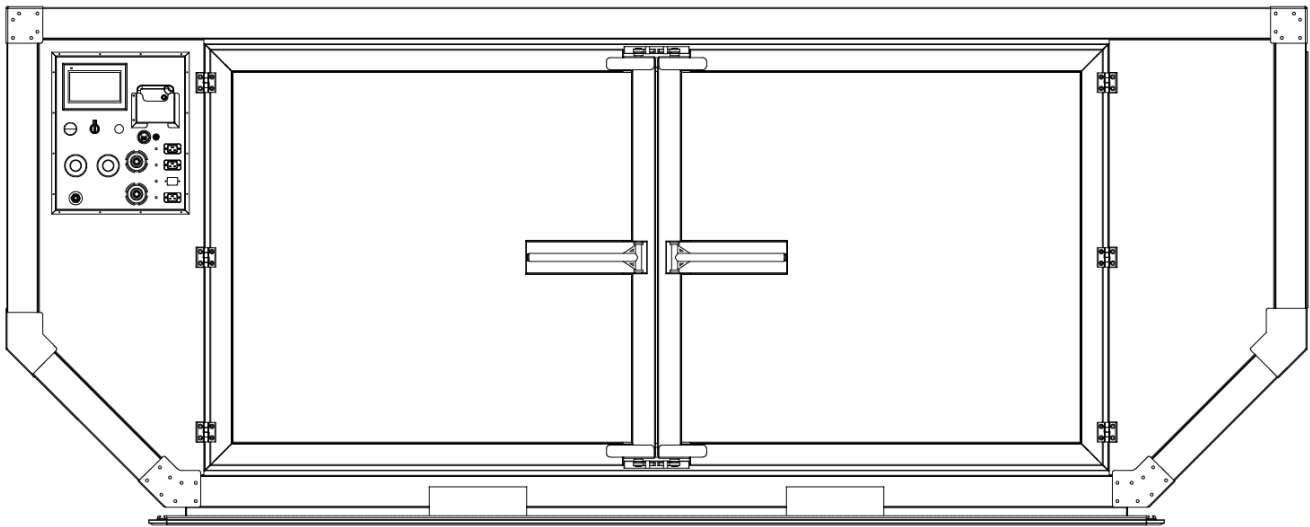




Product	Cryometrix RMF-90		
Doc. Name	Specification Sheet		
Doc. No.	SS-01	Version	01

Cryometrix RMF-90

Specification Sheet



CAUTION: Only qualified service personnel may perform any internal maintenance or adjustments.

IMPORTANT: Users must read this manual prior to operating the Cryometrix RMF-90. Failure to do so may result in personal injury, product damage, or reduced product performance.

The contents of this manual are intended for informational use only and may be altered without notice. No warranties or representations are made by Cryometrix regarding this manual. Cryometrix shall not be held liable for any direct or incidental damages which arise out of use of this manual.

The contents of this manual are not intended to assist qualified service personnel in performing any internal maintenance or adjustments.

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Document No. 003-02MAN

Revision	Date	Description	By
01	11/5/2018	Original Version	Daniel Ellis

1 Technical Specifications

This manual covers the Cryometrix RMF-90.

Cryometrix freezers are designed to be easily accessible and convenient to use. They utilize a modern liquid nitrogen-based technology to control the temperature of the payload bay. This technology is compressor free and significantly reduces the amount of electricity the unit uses and sound it produces. Cryometrix freezers are easy to operate and clean, improving the quality of workspaces.

The RMF-90 is a high-performance unit designed to maintain the payload bay temperature while in operation, both in the air and on the ground, through cooling and heating as applicable.

RMF-90	
Features	
Display	7" Touchscreen LCD
Access / Setpoint Security	3 Standard User Levels Up to 30 Individual Users
Performance	
Payload Bay Temperature Range	-40°C to 40°C -40°F to 104°F
Peak Variation from Setpoint	4°C 7°F
Operational Ambient Temperature Range	-40°C to 60°C -40°F to 140°F
Max Run Time on batteries for cooling and heating at 4°C	> 48 hours
Cool Down Ramp	1°C / min (no payload)
Warm Up Ramp	0.05°C / min (no payload)
Dimensions	
Exterior Volume	16110 liters
Exterior Dimensions (Depth x Width x Height)	2438 mm x 4064 (3175) mm x 1626 (1600) mm 96 in x 160 (125) in x 64 (63) in
Payload Bay Volume	6442 liters
Payload Bay Dimensions (Depth x Width x Height)	2133 mm x 2642 mm x 1143 mm 84 in x 104 in x 45 in

RMF-90	
Tare Weight	5,800 lbs.
Max Gross Weight	15,000 lbs.
Max Net Weight (with LN2 and PMC)	8,500 lbs.
Electrical	
Recharging Power Supply	4 Ports, 110-220 VAC, 50-60 Hz
Maximum Power Consumption During Charge Cycle	1200 Watts each port
Maximum Charging Time	8 hours
Plug Type	NEMA 5-20 adapter or onboard IEC 60320 C20
LN2 System	
LN2 Capacity	2 Tanks, 120 L each
Operating Pressure Range	0 – 22 psi
Maximum Fill Time	45 min
Plug Type	CGA 295 Fitting

5 RMF-90 Components

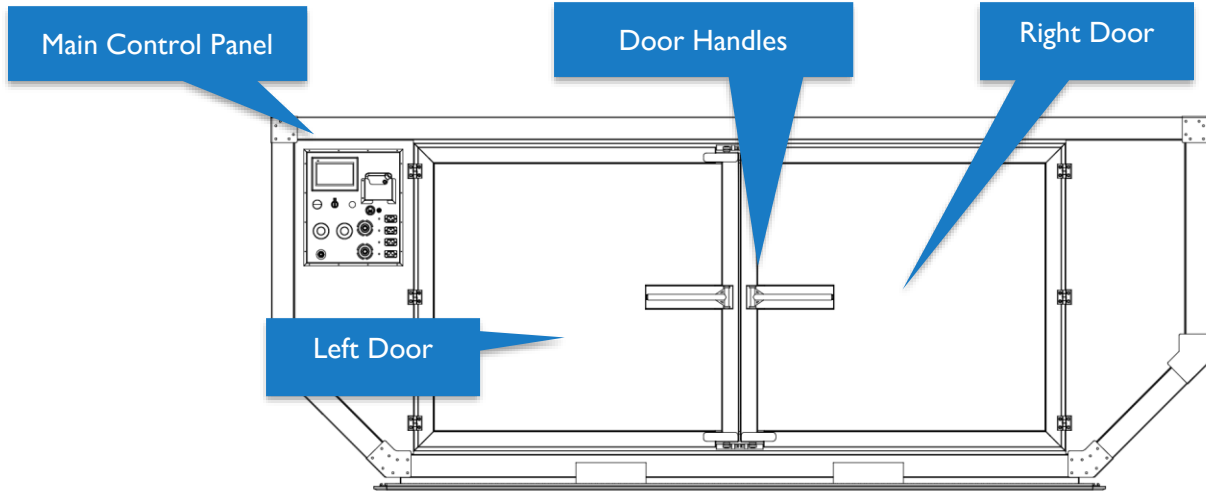


Figure 35

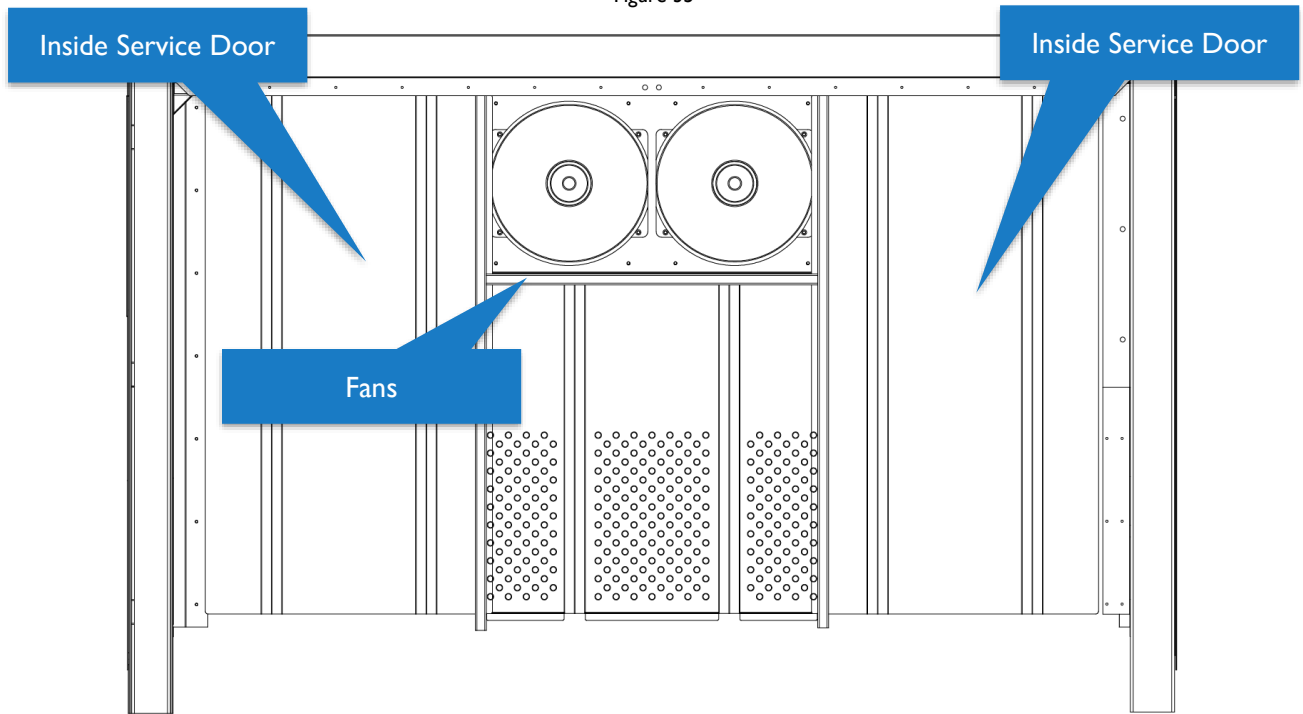


Figure 36

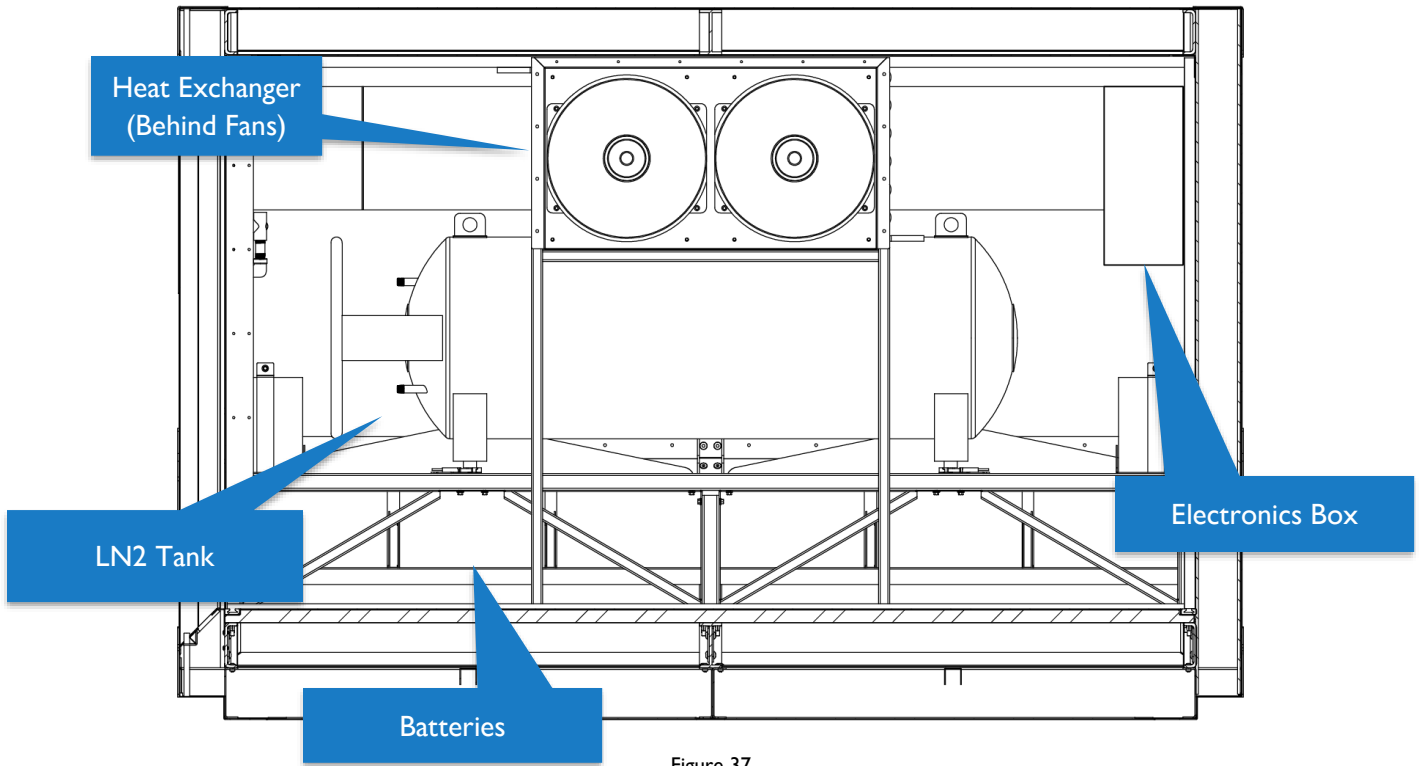


Figure 37

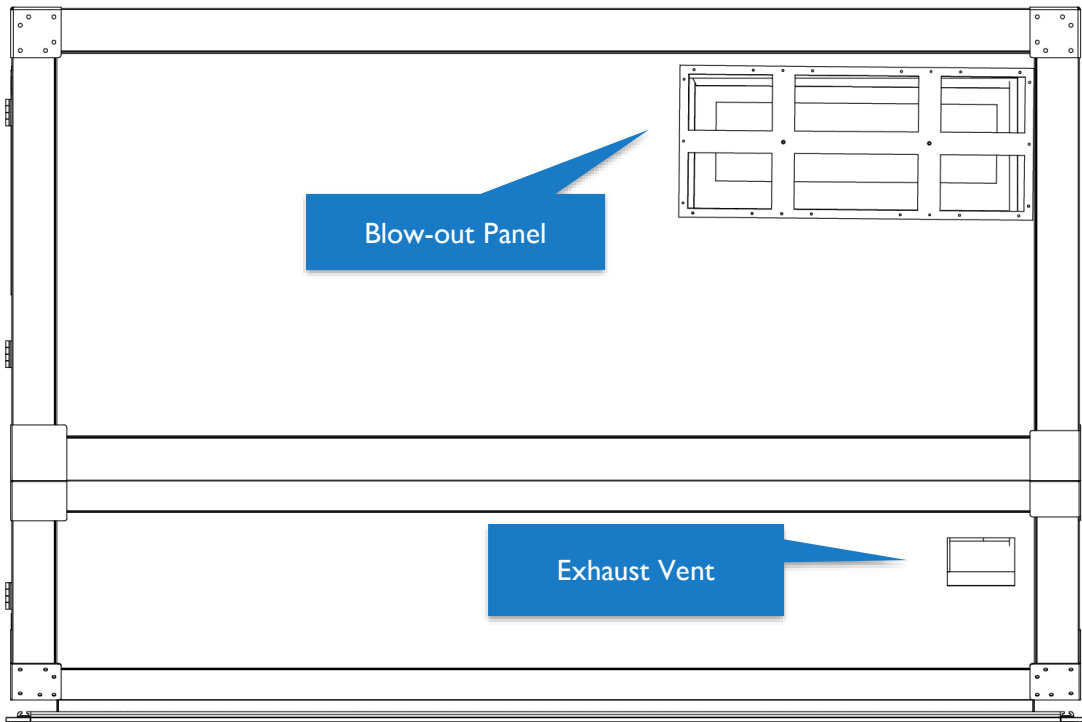


Figure 38

Patents Pending
Cryometrix RMF-90 Operation Guide Rev. 01
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