



N-Stor™

Users' Guide

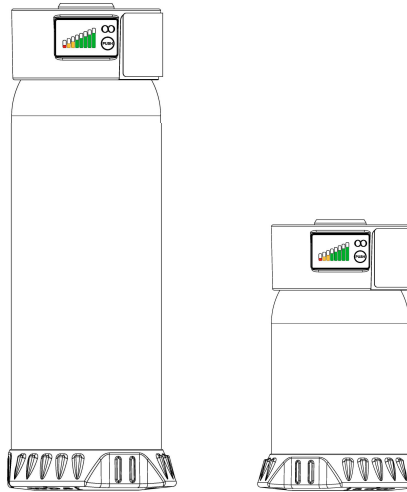


TABLE OF CONTENTS

System Description-----	3
N-Stor Parts List-----	3
Safety-----	4
FCC Notice-----	5
Patent Information-----	5
Setup-----	6
Troubleshooting-----	7
Transportation-----	8
N-Stor130 Specifications-----	9
N-Stor360 Specifications-----	9
Limited Warranty-----	10

SYSTEM DESCRIPTION



The N-Stor supplies the hydrogen fuel necessary to power Jadoo fuel cell products. The N-Stor contains a metal hydride powder that absorbs hydrogen and releases it upon demand from the fuel canister. The N-Stor operates at low pressure, and incorporates safety features to prevent the inadvertent release of hydrogen.

The display panel on the side of the N-Stor displays information about the state-of-fill. The N-Stor is to only be filled using Jadoo FillOne and FillPoint.

Features:

- State-of-fill display panel
- Low pressure, high volume, hydrogen energy storage
- DOT approval for Air Cargo shipment (DOT-SP 13598, formerly DOT-E 13598)

N-STOR PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
	930001	N-Stor130 (130 W-h / 10 A-h)
	930002	N-Stor360 (360 W-h / 30 A-h)

SAFETY

Jadoo products are designed and manufactured to safely cease operation at the earliest detection of any safety fault.

WARNING: Fire Hazard!

N-Stors contain flammable gas under pressure. Do not tamper with canister. Read and understand this Users' Guide. This is not a toy – keep away from children.

WARNING: Do not store in elevated temperatures.

The N-Stor is equipped with a fusible pressure relief device (PRD) that will activate when the canister reaches temperatures of approximately 217° F. Once activated the PRD will release the hydrogen content of the canister and cannot be reset.

WARNING: Under no circumstances is the canister to be disassembled. Exposure to air will render the hydride material useless and require replacement. Materials within the hydride are potentially dangerous.

IMPORTANT SAFETY WARNINGS AND INSTRUCTIONS TO REDUCE RISK OF INJURY:

All users of this product should read and understand all safety instructions and other information contained in the Users' Guide.

Save these instructions and review frequently.

! CAUTION: When using the canister, basic safety precautions should always be followed to reduce risk of fire, electric shock or personal injury.

READ ALL INSTRUCTIONS

PROVIDE ADEQUATE VENTILATION and refrain from placing items on or around the canister during operation. Refrain from placing the canister in enclosures or causing the canister to not vent freely.

DO NOT use an attachment not recommended, as it may result in a risk of electric shock or fire.

THIS CANISTER is not tested for use with medical devices.

FCC NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

PATENT INFORMATION

This product may be covered by one or more patents. The sale of this product, and the information contained and conveyed thereby, should not be construed as either explicitly or implicitly granting any license (of any kind or type); and no liability for patent infringement arising out of the use of the information is assumed.

SETUP

N-Stors are shipped filled and ready for use with approved Jadoo fuel cell products.

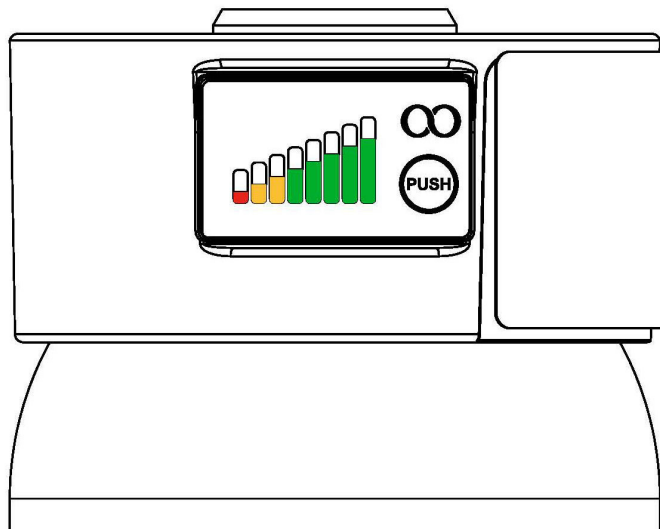
The display panel, located on the side of the N-Stor canister, displays information about state-of-fill. To activate the display, push and release the raised button (See Figure 1).

Capacity

Each graduation of the state-of-fill indicator on the N-Stor represents approximately 12% of the total amount of fuel. The state-of-fill will automatically update based on fuel consumed by the N-Gen, the insertion or removal of additional N-Stors, or if an error is detected.

The N-Stor fuel level indicator is similar to a fuel gauge in an automobile. Like an automobile, there is some additional capacity even when “empty” is displayed. Runtime will vary depending power draw.

Figure 1: N-Stor Fuel Indicator



Error Conditions

The N-Stor display will identify indeterminate state-of-fill, which can be caused by a communication or filling error. In the case of indeterminate state of fill, the bottom (red) and top (green) LEDs of the display will alternately flash when the button is pushed and released.

To clear the indeterminate state-of-fill indication, insert the N-Stor into a Jadoo FillOne™ or FillPoint™ refilling appliance and allow the N-Stor to fill to completion. Once the refilling appliance has determined the N-Stor to be full, the display will be reset to operate normally.

TROUBLESHOOTING

Service

N-Stors are self-contained storage units and are not field serviceable, except for the replaceable battery. The N-Stor canisters require re-certification after 5 years from their original date of manufacture.

Do not fill a canister if the fill date exceeds 5 years from the manufacturing date stamped on the cylinder. This manufacturing date will appear as month / year, similar to “ 07 Ø 05 “. Please contact Jadoo for re-certification instructions.

Battery Replacement

A battery is used to power the N-Stor display. In the unlikely event of a premature battery failure, it can be replaced. To replace the battery, use a coin to turn the battery door and remove it. Remove the battery and replace it, with the “+” side of the battery facing out. The battery is a 3V Lithium coin cell, CR1632 type.

The N-Stor can be filled/used with a failed battery and state-of-fill information will be maintained, but the canister display will not be functional.

TRANSPORTATION

The shipping and regulatory information provided here is for reference only and should not be substituted for a complete review of regulations, including training as specified by Department of Transportation and other regulatory agencies. This information does not dispense from careful reading and compliance with local, state, federal and international rules and regulations.

Requirements

N-Stors have specific shipping procedures due to the metal hydride material within the canister. **N-STORS MUST BE SHIPPED ACCORDING TO DOT-SP 13598 AND IN ACCORDANCE WITH JADOO POWER TRANSPORTATION, PACKAGING AND SHIPPING GUIDE (P/N 117449).** It is important to follow U.S. Department of Transportation (DOT), 49 CFR Subpart G of 107 and Parts 171-177. DOT requires that all hazardous material be properly packaged in DOT specified containers and marked with proper shipping name and identification numbers, as well as appropriate warning labels.

N-STOR130 SPECIFICATIONS

Power Capacity	130 W-h / 10 A-h
Weight	2.0 lb
Size	2.5" X 4.5" (dia. X length)
Refill Method	Jadoo Refill Station

N-STOR360 SPECIFICATIONS

Power Capacity	360 W-h / 30 A-h
Weight	5.1 lb
Size	2.5" X 10.5" (dia. X length)
Refill Method	Jadoo Refill Station

Specifications subject to change without notice.

LIMITED WARRANTY

The limited warranties provided by Jadoo Power Systems, Inc. (“JADOO”) apply only to JADOO-branded products (“JADOO Products”) that you (“Customer”) purchase in the 50 United States, including the District of Columbia for Customer’s own use, and not for resale or for export outside of the United States.

The JADOO Standard Protection Plan provides the Customer with the following: JADOO warrants that the JADOO Products will be free from defects in workmanship and materials, under normal use, for one (1) year from the original purchase date.

The warranties set forth in this Standard do not apply to: any third party products or services included with or used with the JADOO Product.

Damage that results from accident, abuse, misuse, neglect or any use of the JADOO Product other than for its intended use.

Damage that results from any unauthorized attempts to open, maintain, repair or modify the JADOO Product. Damage that results from the JADOO Product being subjected to abnormal physical, thermal or electrical stress, including power fluctuations or other hazards.

Warranty Remedies and Procedures

As Customer’s sole and exclusive remedy and JADOO’s entire liability under this warranty, JADOO will, at its option, repair the JADOO Product or replace it with a comparable JADOO Product. Replacement JADOO Products and parts used to repair the JADOO Products may be new, refurbished or reconditioned. Repaired or replaced JADOO Products are warranted for the unexpired portion of the original warranty period or 90 days from the date of shipment whichever, is longer. All JADOO Products and parts that are replaced become the property of JADOO.

Customer must contact JADOO Technical Support within the warranty period and furnish a dated proof of original purchase prior to the return of any JADOO Product for warranty service. To obtain contact information, refer to JADOO’s website at www.jadoopower.com. Upon validation of Customer’s warranty entitlement, JADOO will issue a Return Material Authorization (RMA) number along with return instructions. Customer must ship the JADOO Product to the designated location, postage pre-paid, in original or equivalent packaging within five (5) days after JADOO’s issuance of an RMA number. JADOO will not be responsible for any JADOO Product damaged or lost in transit. JADOO will return the repaired or replacement JADOO Product to Customer, postage pre-paid, in the United States.

NOTES

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