

Weld Air

OPERATION & SAFETY

SWA-100



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SWA-100

SWA100-MNL01-R00

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This Manual

This manual is intended as a basic source of information on the safe operation and maintenance of InnovaTech Manufacturing's Weld Air. This manual provides general information as well as specific warnings, instructions, and information that workers using this machine must read, understand, and follow.

This manual is not intended as an all-encompassing "rule-book" on operation safety. Instead, InnovaTech Manufacturing presents this information as a reference and guide only. It is the purchaser's and operator's responsibility to identify specific safety hazards and determine proper procedures to prevent those hazards from inflicting injury.

Safety is paramount in the operation of this machine. A copy of this manual should be made available to all persons using this machine. This manual is available online at <https://innova.tech>.

All information in this manual is based on the latest product information at the time of publication. However, there may be design improvements from time to time so that photographs, text, and sketches within the body of this manual may not exactly match your machine. InnovaTech Manufacturing's responsibility, financial or otherwise, for any consequences arising out of the use of this manual or its machine is limited by our product warranty. The information contained herein is subject to change, and revisions may be issued to advise of such changes. InnovaTech reserves the right to make product changes at any time without obligation.

This manual contains subject matter to which InnovaTech Manufacturing has proprietary rights. Recipients of this document shall not duplicate, use, or disclose information contained herein, in whole or in part, for any use other than for machine operator use and for training personnel on safe operation and maintenance of this machine.

If you have any questions or concerns about the content of the WeldAir Use and Safety Manual or, if you would like to request updated information, we want to hear from you.

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Appendix

1. Safety

1.1 Safety Alerts

Hazard Level	Signal Word	Signal Color	Signal Symbol	Signal Example	Signal Meaning
Extreme	DANGER	RED			DANGER indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.
High	WARNING	ORANGE			WARNING indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.
Medium	CAUTION	YELLOW			CAUTION indicates a hazardous situation which, if not avoided, MAY result in moderate injury.
Low	CAUTION	YELLOW	no symbol		CAUTION (without a symbol) indicates a hazard or practice not related to personal injury.

1.2 Safety Considerations

The Weld-Air contains a welder and has an air compressor that operates at 120 psi. Appropriate precautions should be taken.

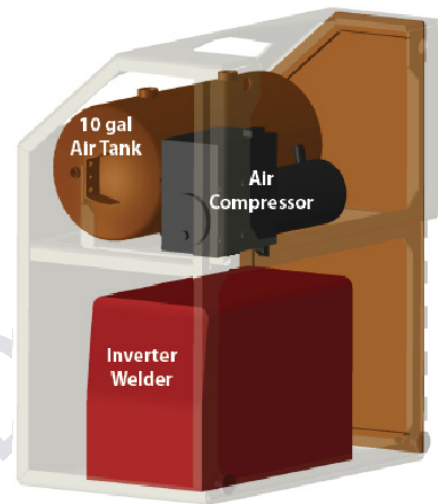
Refer to the Lincoln Welder manual and the Oasis Air Compressor manual for specific Safety concerns relating to the welder or the compressor of the Weld-Air.

2. Overview

2.1 General

The Weld-Air (SWA-100) was engineered to make welding from a boom lift more safe and efficient. It is a 2-door steel encasement that houses an air compressor, an air tank, and an inverter welder. The Weld Air is approved for a Snorkel boomlift. It is powered by the batteries and a 20KW generator of the Boom Lift. Cables and hoses can be installed in the boom of the boomlift conveying power and air from the WeldAir to the manbasket. These cables and hoses can be uninstalled and the Weld-Air removed when necessary.

2.2 Nomenclature



3. Operation

3.1 General

The Weld-Air houses a Lincoln Welder that is intended to be wired to a Boom Lift generator. There are no modifications to the welder. Refer to Lincoln's operation manual for specific operating instructions.

The Weld Air contains a 12 Volt Oasis air compressor with a 10 gallon air tank. Refer to the Oasis operation manual for specific operating instructions. Air pressure can be set by an adjustable tank mounted

pressure sensor. A rocker switch on top of the Compressor turns it on or off.

3.2 Operating the WeldAir

1. Start the Boom Lift.
2. Open the door and turn on Welder and Air Compressor. Ensure door is tightly latched when closed.
3. Before shutting down Boom Lift, turn off welder and air compressor. Close door tightly.

4. Specifications

General

Dimensions

Length 2 ft. 10 in.
Width 23 in.
Height 3 ft. 3 in.

Weight

Weight 480 lbs

Capacity

Air Tank Capacity 10 gallons

Functions

Welder

Brand Lincoln
Model FlexTec-350
Input Power 1 or 3 phase
Voltage 220-480 Volt
Power Source 20KW Generator

Air Compressor

Brand Oasis
Model XD4000-12
Duty Cycle 100%
Voltage 12 Volt
Amperage 190 amps
Flow Rate 8 cfm @100psi
Power Source Boom Lift Batteries

5. Maintenance

5.1 General

CAUTION **IMPORTANT!** If the WeldAir does not operate properly, turn it off immediately! Tag it "Out of Service." Report the problem to the proper maintenance personnel. Do not operate the machine until it is safe for operation.

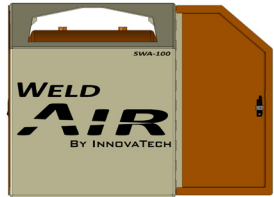
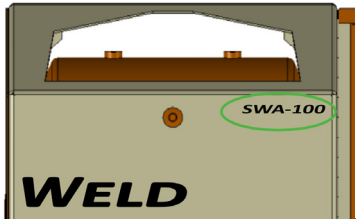
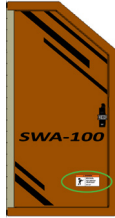
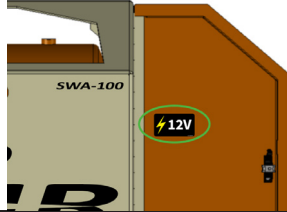
5.2 Maintenance

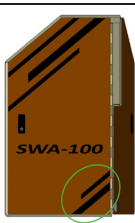
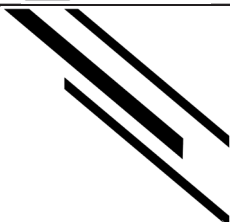
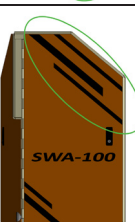
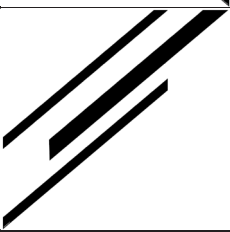
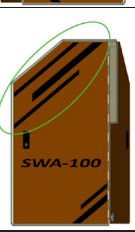
Drain the air tank weekly by pulling the drain valve on the bottom of the tank.

5.3 Modifications

Do not modify the Weld-Air.

Appendix A: Decals and Labels

Decal and Label Chart			
Decal ID	Qty	Decal Visual	Decal Application
INN-SWA-100-LM01-V01	1	WELD AIR BY INNOVATECH	
INN-SWA-100-LM02-V01	1	SWA-100	
INN-SWA-100-LM03-V01	1	SWA-100	
INN-SWA-100-LM03-V01	2	WARNING IMPACT HAZARD! Machine Moves Unexpectedly DEATH or SERIOUS INJURY could result from contact with moving equipment KEEP CLEAR	
INN-SWA-100-OP02-V01	1	12V	
INN-SWA-100-OP01-V01	1	CAUTION COMPRESSED AIR	

INN-SWA-100-DL01-V01	1		
INN-SWA-100-DL02-V01	1		
INN-SWA-100-DL03-V01	1		
IINN-SWA-100-DL04-V01	1		



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