

LONGEVITY™

The power to last!™

www.longevity-inc.com

INSTRUCTION MANUAL FOR LONGEVITY COOLER 9Liter



LONGEVITY Cooler (9 liter)

A water cooler is used for cooling the torch of the welder. The LONGEVITY water cooler will work with all compatible and capable LONGEVITY water cooled torches as well as other brand torches with similar connection. The stainless and copper construction allows for durability and a long life. Each unit comes with a hose valve for inlet and outlet and mates directly with your LONGEVITY TIG Welding torch. Units with this compatibility include but are not limited to the: WeldAll 250PI, WeldAll 360, TigWeld 350 and TigWeld 315. After ten years of being in the welding industry and producing and distributing high quality welding and plasma cutting equipment, we can assure you that you will receive superior quality and capability with this water cooler for years to come.

FEATURES:

- High powered stainless steel, corrosion free water pump
- Visible water flow and level indicator
- quick fill and drain 9 liter water reservoir
- Large front mounted radiator
- 200mm large rear mounted fan to support cooling system

SAFETY AND MAINTENANCE INSTRUCTIONS:

- 1) If you have not used your cooler for an extended period of time than re-start the motor and make sure that the water is pumped out in order to prevent damage to the water cooling torch.
- 2) Make sure the tank is filled with clean water, to the safety line, at all times. Failure to fill the tank with water to the safety line can cause damage to the pump. This can be done by opening the cover under the bottom of the tank. Insufficient water supplied to the unit will void warranty.
- 3) Be sure all the connectors are in place properly.
- 4) Be aware of the input voltage. If the voltage is not according to machine's specifications the motor may burn out. Warranty does not cover damage to unit from improper voltage supplied to machine.
- 5) If the motor works well but there is insufficient water coming from the unit, be sure to take an air compressor and put pressure in the inlet or the outlet for 20 seconds at 20 PSI.
- 6) If for any reason the motor has been burnt out, it must be replaced.

- 7) If you are unsure if your torch is compatible with our water cooler, please ensure that your TIG torch has in and out hose connections in addition to the standard argon plug and remote control plug.
- 8) Please be aware that using the unit in the rain where the motor and electronic components can get wet may cause electric shock and/or un-repairable damage to the unit which will not be covered by warranty.
- 9) Keep the interior of the machine dry and clean.
- 10) Be sure to clean and change water regularly.
- 11) Open the trunk of the unit every half a year to blow out the interior with an air compressor.

The LONGEVITY COOLER ® may or may not be dual voltage varying by unit of purchase. Please check the back of your machine for the noted input requirement or contact your LONGEVITY dealer for specifications.

Installation and Setup Instructions:

The item numbers referenced in the following paragraphs, refer to the numbered parts display in the diagrams shown below. LONGEVITY® has an instructional setup installation video on our website at www.longevity-inc.com, which we ask that you view prior installing the unit. The video shows the complete assembly of the unit. The video is located in the Resources section of the website under manuals and installation/set-up videos.

Connecting the electrical plug to the unit

Connecting the power plug to the unit is important. Please view the proper connection instructions below:

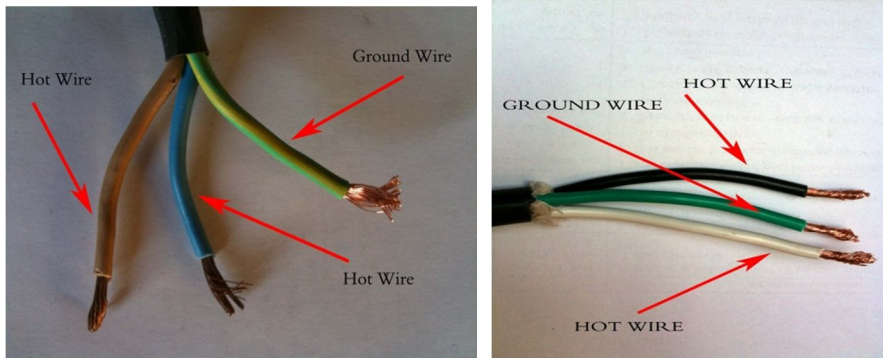
Wiring Introduction for 220 Volt

Danger: Read this manual completely before having your electrician attempt to wire up or connect your machine to an electrical power source. LONGEVITY® units should be wired by a certified electrician to insure your safety and a proper 110/220v plug match at your operating facility. Remember 220v plugs come with 3 or 4 prongs on them. Have the electrician check your existing receptacle.

Note: The power cord on single-phase machines have one ground wire and two hot wires when connecting to 220vac. Connecting these wires properly is extremely important. Improperly connected

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wires will void the warranty, affect personnel safety, and possibly damage your machine and electrical power outlet.



Identifying the Ground wire

Caution: The machine may appear to operate with an incorrectly connected ground wire, but it will not operate properly. Selecting the correct ground wire is important for proper machine operation and personnel safety.

Ground wires on LONGEVITY® Welding machines are usually one of the following colors:

The ground wire is a dark green with a yellow stripe. The wire may also be just SOLID GREEN.

Clean the ends of the wires to more easily distinguish the colors. The best and safest way to determine which wire is ground is to measure the resistance between the machine chassis and the selected wire, using an ohmmeter. Another method is to check the continuity between the chassis and the wire, using a continuity meter. If the selected wire is ground, the connection between the chassis and the wire will cause the meter to illuminate. If, for any reason, you cannot visually detect the ground wire or do not feel comfortable with your selection, ask an electrician for help.

Identifying the hot wire

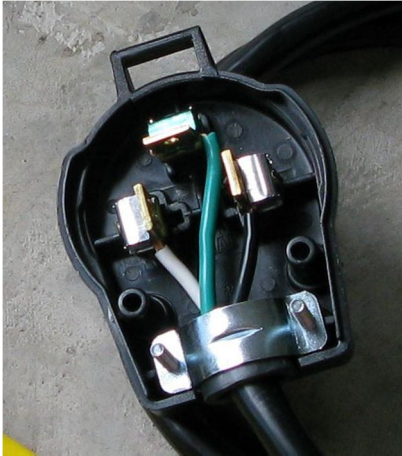
For 220vac service, both the brown and blue wire are positive wires. As you may know, 220vac features two hot wires. If you are wiring to 220vac, your blue and brown wires are both hot. The green with yellow or SOLID GREEN is the ground. Remember, any hot wire can be attached to either hot leg on the plug.

Note: Hot Wires May also be WHITE and BLACK if a GREEN WIRE is one of the three wires. Therefore, GREEN is ALWAYS GROUND.

NOTE: Please refer your units input voltage for proper breaker size corresponding to your units

input power required. If this is not clear, please contact your LONGEVITY dealer for requirements.

Finished Plug:



Wiring Introduction for 110 Volt - 20amp Breaker

Caution: The machine may appear to operate with an incorrectly connected ground wire, but it will not operate properly. Selecting the correct ground wire is important for proper machine operation and personnel safety.

Ground wires on LONGEVITY® Welding machines are usually one of the following colors:

- The ground wire is a dark green with a yellow stripe. The wire may also be just SOLID GREEN.

Clean the ends of the wires to more easily distinguish the colors. The best and safest way to determine which wire is ground is to measure the resistance between the machine chassis and the selected wire, using an ohmmeter. Another method is to check the continuity between the chassis and the wire, using a continuity meter. If the selected wire is ground, the connection between the chassis and the wire will cause the meter to illuminate. If, for any reason, you cannot visually detect the ground wire or do not feel comfortable with your selection, ask an electrician for help.

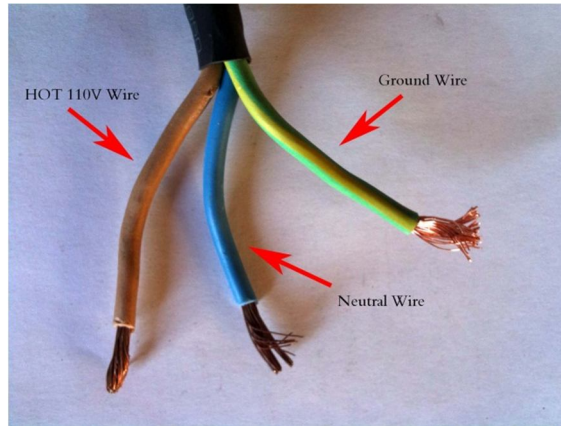
Identifying the Neutral Wire

For 110vac service, the brown wire is is a hot wire. As you may know, 110vac features one hot wire, a neutral wire, and a ground wire. If you are wiring to 110vac, your blue wire is neutral, brown is hot and the green with yellow or SOLID GREEN is the ground.

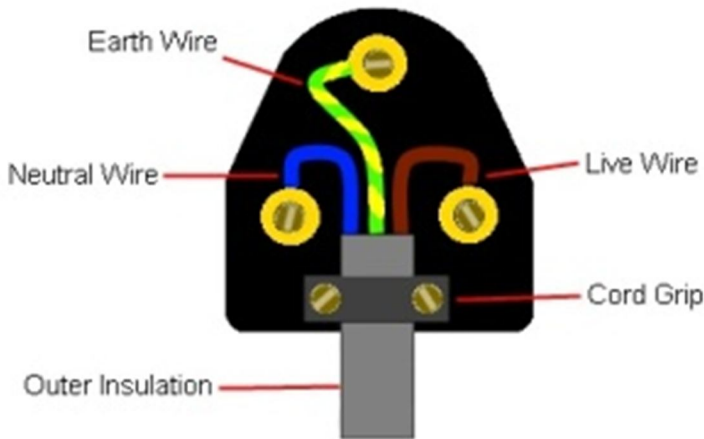
Note: Hot Wires May also be WHITE and BLACK if a GREEN WIRE is one of the three wires. Therefore, GREEN is ALWAYS GROUND. In this case one of the wires is neutral and one is hot.

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NOTE: Please refer your units input voltage for proper breaker size corresponding to your units input power required. If this is not clear, please contact your LONGEVITY dealer for requirements.



110V Plug Diagram:



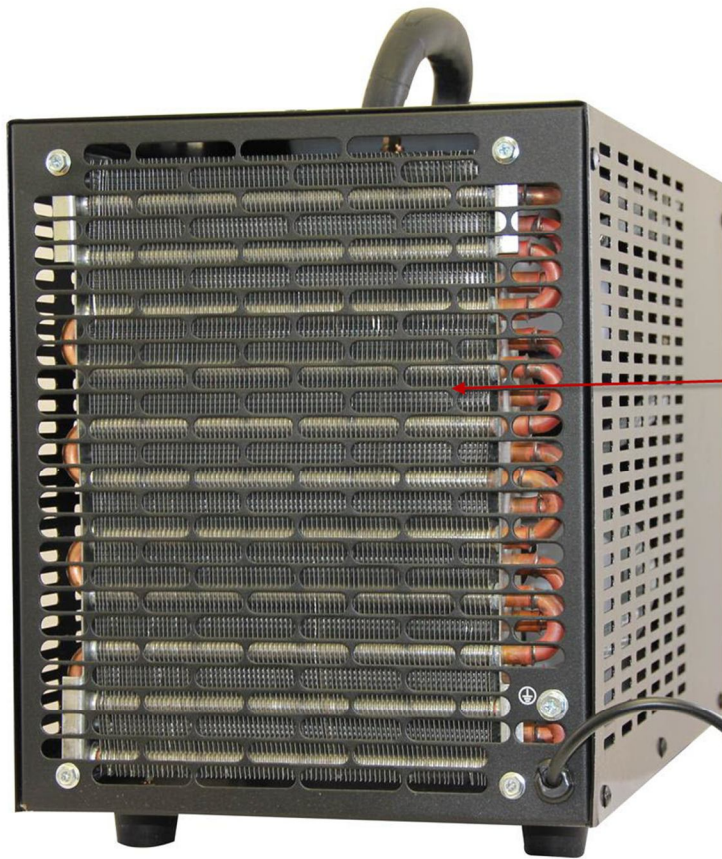
HOSE ATTACHMENT FOR FLUID FLOW:

- 1) Insert the torch attached Inlet hose to the Inlet of the water cooler
- 2) Insert the torch attached Outlet hose to the Outlet of the water cooler

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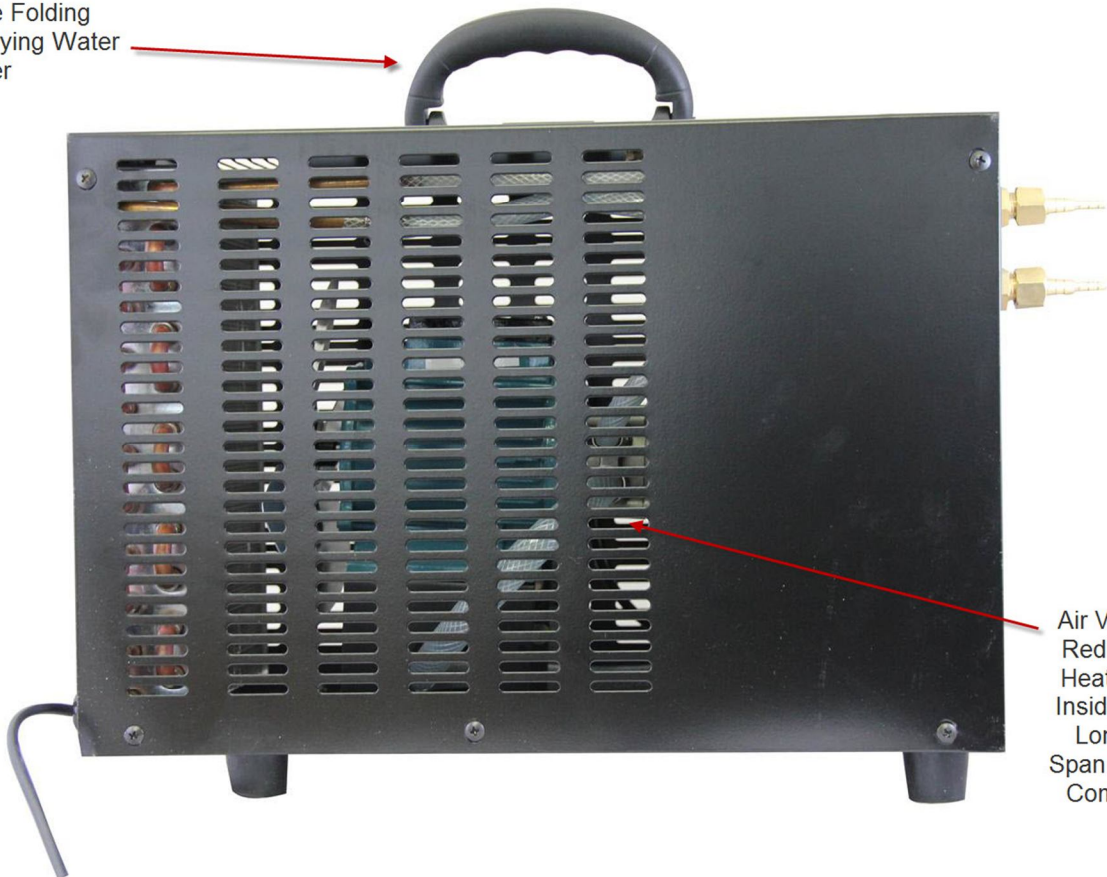
LONGEVITY COOLER – Water Cooler TIG Torch Accessory



Extra Large Radiator For cooling fluids down to freezing temperature! This Enables Your TIG Torch to Stay Extremely Cool For Much Longer Weld Time During Passes!

Power Cord (Gauge and Voltage Requirement May Vary)

Very Durable Folding Handle for Carrying Water Cooler



Air Vents Help Reduce Extra Heat Build Up Inside Unit For Longer Life Span of Internal Components

LONGEVITY COOLER – Water Cooler TIG Torch Accessory

LONGEVITY® Global, Inc. thanks you for your purchase and opportunity to be able to serve you. If, after reviewing this manual, you have any problems in setting up or operating your machine or water cooler, contact us at help@longevity-inc.com.

LONGEVITY® Global, Inc.
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Dealers: dealers@longevity-inc.com

Please join our welding forums to share welding tips and tricks, to receive useful information from customers who also use our products, and to be a part of the LONGEVITY® welding community at www.freeweldingforum.com

For the coolest LONGEVITY sponsored race teams plus a complete racing forum that covers everything from Drag Racing to RC Car Racing, please check out www.longevity-racing.com!

Enjoy your new Water Cooler from LONGEVITY! Thanks again!