RT

Maintenance Manual

JuicePump

TRI93-50-01-UL

50kW DC

www.enelx.com
Phone: +1-84-584-2329

Contents

Important safety instructions

This manual contains important instructions for the JuicePump electric vehicle fast charger.

Identifying symbols

CAUTION

RISK OF ELECTRIC SHOCK

CAUTION

The JuicePump fast charger must be installed and serviced only by qualified electrical personnel.

CAUTION

In the event of a circuit breaker trip, the charger must be inspected by an Enel X-certified service agent before the charger is re-energized.

Operating temperature:

-35° to 50°C / -31° to 122°F

Maximum ambient temperature:

55°C /131°F

Weather rating:

NEMA Type 3R

For assistance with maintenance of the charger, contact your supplier, or Enel X Customer Support.

General exterior maintenance

The following maintenance can be performed by the owner/user. All other servicing must be conducted by qualified service personnel.

If there is any damage to the charger, contact your supplier.

It is recommended to perform general maintenance at least every six months, depending on the environment. In harsher environments, you should perform genral maintenance more often.

General exterior maintenance

Regular cleaning is recommended to avoid accumulation of debris/dust/dirt on or around the unit. Wipe surfaces with a soft cloth dampened with water, or use alcohol based cleaner for harder to remove marks.

Do not spray with high pressure cleaning hoses or use abrasive chemicals.

Snowfall areas

Regularly remove snow build up if present in front of the radiator panels.

This should be checked daily in areas with high snowfall.

See the next page for a maintenance checklist.

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General maintenance checklist

1. Surfaces
Check that surfaces are clean and clear from dirt or dust.

2. Metalwork
Check the metalwork for corrosion.

3. Interface panel
Check the panel for signs of damage and confirm it is operating correctly.
To check operation, turn the charger off and then on and it runs a self-check.

4. Plug holders
Ensure that there is no debris inside the plug holders.

5. Plug plates
Check the stainless steel plug plates and use apropriate lubricant (non-oil based) on the hinges if required. Contact your supplier if damaged.

6. Charging plugs
Check the plugs for accumulation of debris and inspect the contact pins for corrosion. If corrosion or damage is present, contact your supplier.

7. Radiator
Regularly check the radiator. Gently hose through the slots in the radiator panel to remove any debris.
Check the radiator for signs of leaks, and if any leaks are present, contact your supplier.

8. LED security lights
Check the functionality of the security lights. To check functionality, place a hand over the area indicated in the image, and confirm that the security lights turn on.

9. Security screws
(Not shown on image)
Check that all security screws on the plastic are fitted and tight.

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Preventative maintenance

As a preventative measure, it is recommended to replace the coolant every 5 years.

Note: You should also replace coolant if there is a coolant leak or after a repair on the cooling system.

To obtain a coolant kit, contact your local representative or regional Enel X office.

CAUTION

Contains ethylene glycol.

Do not use the coolant servicing kit for any purpose other than use on Enel X liquid cooling systems.

Important

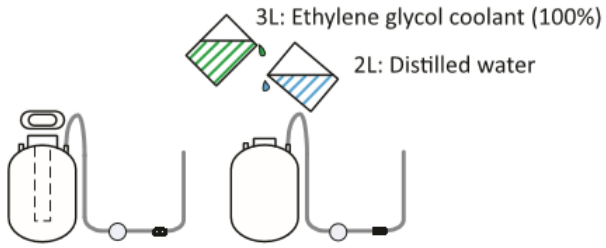
Ensure that:

- The charger is electrically isolated before you begin any work on the cooling system.
- Coolant used for 60:40 mixture is 100% ethylene glycol concentrate. Contact Enel X for specific coolant before use.
- You follow the coolant manufacturers instructions regarding health and safety when working with ethylene glycol based coolant.
- You do not exceed 2 bar of pressure while using the coolant servicing kit.
- You do not hold down the pressure relief valve while using the coolant servicing kit.
- You do not leave the coolant servicing kit unattended under pressure.
- All pressure is released from the coolant kit before it is refilled or stored.

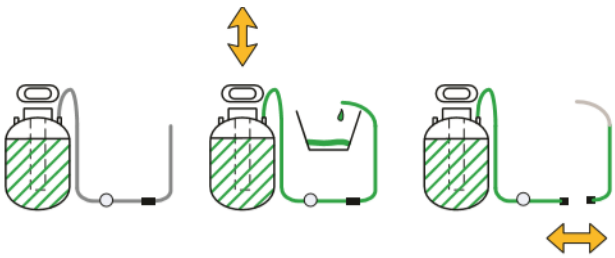
Change the coolant

Ensure that you keep all coolant fittings clean and free from dirt or grit.

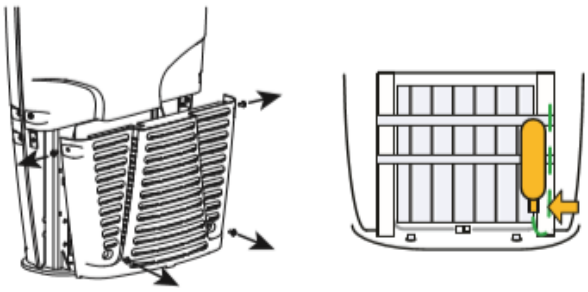
1. Isolate power to the charger.
2. Mix the coolant.



3. Pour the coolant into the pumping kit and then bleed the air.



4. Remove the back radiator panel and disconnect the expansion bag.
   Note: To disconnect the expansion bag, twist the fitting 90° and pull apart.



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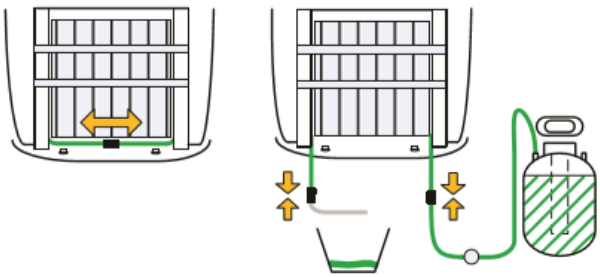
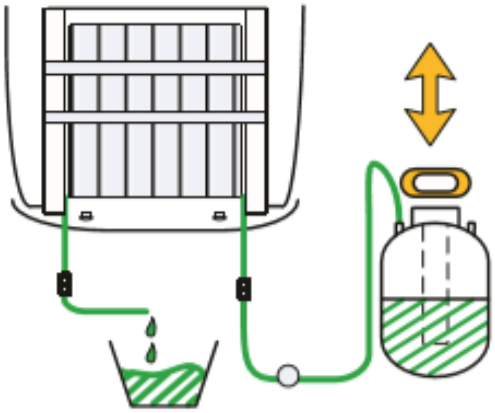
Preventative maintenance

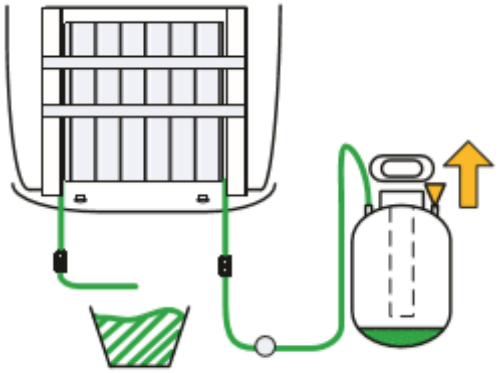
5. Connect the coolant kit to the charger.
   Note: To do this, complete the following:
   - Disconnect the quick connect fitting under the radiator; pull apart, do not twist.
   - Connect the male quick connect of the charger to the female quick connect on the pumping kit.
   - Connect the female quick connect of the charger to the male quick connect pf the return hose on the pumpin kit.



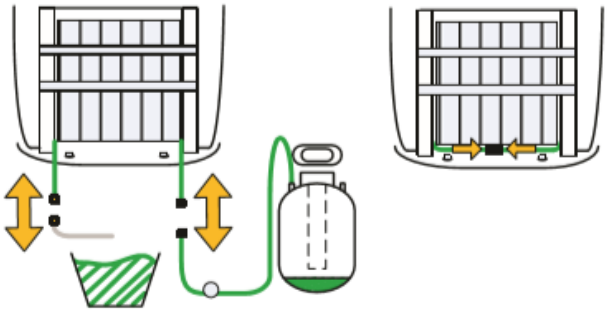
6. Change the coolant.
   Note: Ensure that the return hose of the pumping kit is directed into a 5L (minimum) container.



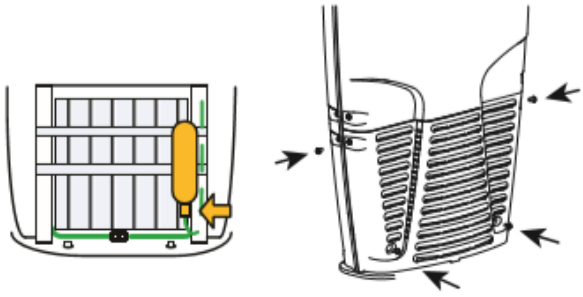
7. Pull the pressure release valve on the coolant kit (shown in yellow) to stop the coolant flow.



8. Disconnect the coolant kit and reconnect the charger cooling loop.



9. Ensure that the expension bag is empty, then reconnect it and replace the radiator cover.



10. Reconnect power to the charger.

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