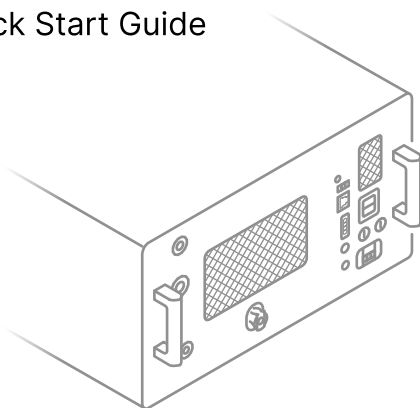


# Electrolyser EL 4.1

## Quick Start Guide



### 1 Check Installation

- You must follow **owner's manual** for all steps, including pipe and wire connection, operation, transportation, storage and disposal.

Download the latest owner's manual at [handbook.enapter.com](http://handbook.enapter.com)

- Ensure the supplied jumper are inserted into the **Dry Con. port in the 3rd and 4th positions**. If you need to implement a safety chain, please refer to Dry Contact Connection Guide in the owner's manual.

- Ensure the supplied antenna is screwed into **Ant. port**.

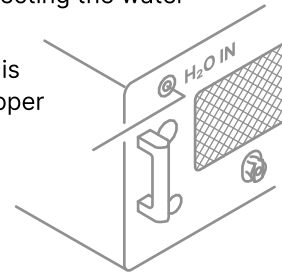


### 2 Water Inlet

- H2O IN port** is used for automatic refilling from connected demineralized water source during the first refilling, during normal operation and maintenance.
- To prevent obstructions, all water pipes must be flushed with demineralized water before connecting the water source.

- Ensure the device is connected to a proper to water supply according to the owner's manual.

Recommended Type II according to ASTM D1193-06 and required acidity < 0.1 meq/l according to ASTM D1067, minimum conductivity of < 2 µS/cm.

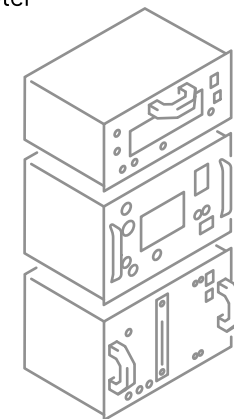


### 3 Additional Devices

- In case of an unstable water supply, Enapter recommends using an external **Water Tank**.

It supports both manual filling with demineralised water and direct connection to a water source.

- If you need high-purity hydrogen (>99.999%), Enapter recommends using the **Enapter Dryer** – a hybrid system based on temperature and pressure swing adsorption.



#### Download Enapter App

Enapter app makes devices setup and maintenance easier and fast.



[app.enapter.com](http://app.enapter.com)

#### Enapter Handbook

Owner's manuals and technical information for Enapter's hardware and software.

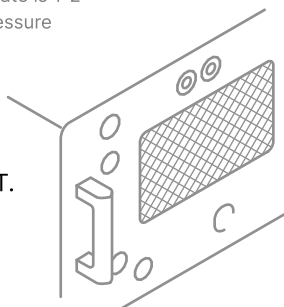
[handbook.enapter.com](http://handbook.enapter.com)

### 4 Liquid Cooled Versions

- EL4.1 LC** version has **Cooling Water ports** (normally closed). It's used for cooling the system using water or a water glycol mixture.
- Check the owner's manual to guarantee the optimal temperature as a function of your flow rate and ambient temperature.

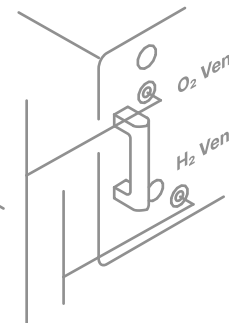
The required flow rate is 1-2 L/min and input pressure can't exceed 4 bar.

- Make sure you are not reversing the IN and OUT.



### 5 H<sub>2</sub> and O<sub>2</sub> Vent Lines

- Regularly check and maintain** H<sub>2</sub> VENT and O<sub>2</sub> VENT lines, as well as keeping the lines free of ice and any obstructions, blockage and damage.
- Obstructions in H<sub>2</sub> VENT line can cause **irreparable damage** of your hydrogen system
- DO NOT** connect H<sub>2</sub> VENT line with O<sub>2</sub> VENT line. Mixing these outputs is extremely dangerous.



### 6 First power-on

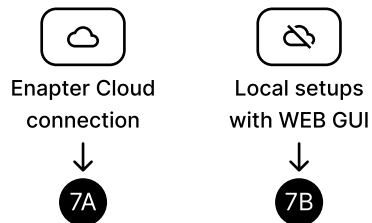
- After all security checks, plug the power cable into the **Power port**.
- Switch the power on.
- Device out-of-the-box comes in **Maintenance Mode**. Yellow LED should be steady.
- Do not leave the device turned on and unattended for a long time in Maintenance Mode.



\* Alternating current voltage of 220-240V is potentially lethal! Direct current voltage of 48-60V can be a hazard!

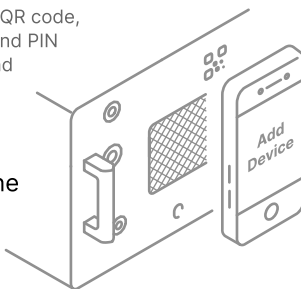


**Next, select a variant (A or B) for further instructions.**



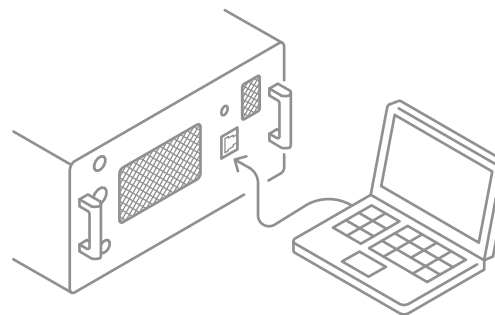
## 7A Connect Electrolyser to Enapter Cloud

- Keep the device powered.  
Make sure WiFi button is turned on (blue LED steady on the front panel of electrolyser).
- Download the Enapter App and sign into your Enapter Cloud account.
- Create your site and press **Add Device**.
- **Scan the QR-code** located on the front side of the device.  
If you can't scan the QR code, enter the device ID and PIN manually. You can find them on the back of the device.
- Follow the instructions in the Enapter App to connect the device.



## 7B Access the Electrolyser's Web GUI

- For isolated setups with no internet connection, use the Web GUI for monitoring, maintenance, and control of the device locally through a web browser.  
Find more info at [handbook.enapter.com](http://handbook.enapter.com)



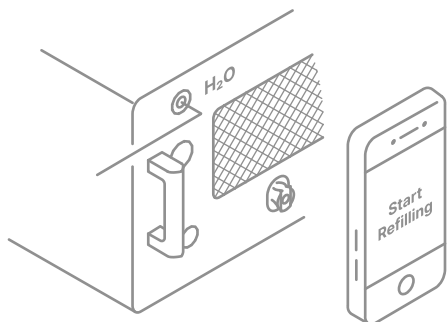
## 8 Prepare the Electrolyte Solution

- If your electrolyser is not supplied with a pre-filled electrolyte bag, you will need to prepare the solution using the KOH Kit.  
KOH Kit includes pipes, a canister, plastic bag, and supporting materials. KOH pellets are not included.  
Find more info at [handbook.enapter.com](http://handbook.enapter.com)

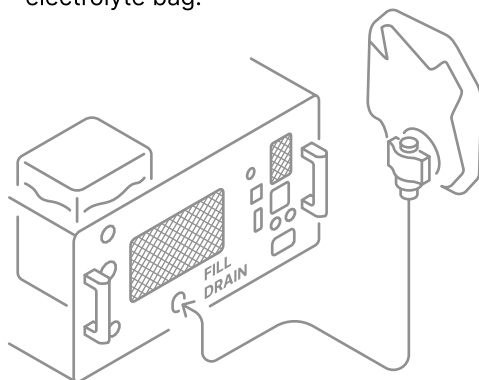


## 9 First Electrolyte Refilling

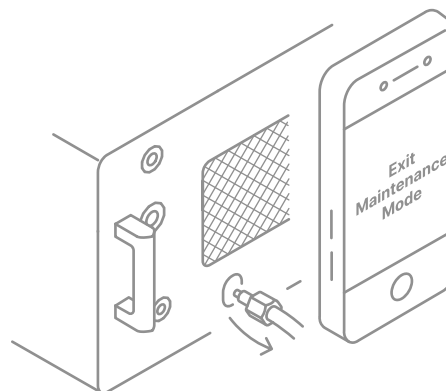
1. Open the electrolyser's page in the **Enapter App** or **WEB GUI** and follow the instructions.
2. Electrolyser must be in **Maintenance Mode**.
3. The water inlet must be connected during electrolyte refilling and draining routines.



4. Connect refilling bag with the electrolyte to the **FILL/DRAIN port**.
5. To start refilling, carefully raise the electrolyte bag above the device.
6. Pour out all of the solution from the electrolyte bag.



7. **Disconnect the refilling pipe** from the FILL/DRAIN port.
8. Press **Exit Maintenance Mode** button in the Enapter mobile app or Web GUI.
9. Electrolyser will be filled with required amount of water automatically.



## 10 Electrolyser is Ready

- Monitor device activity in the Enapter App, Enapter Cloud, or WEB GUI.
- During normal operation, the LEDs indicate the status of the machine.  
LED indications at [handbook.enapter.com](http://handbook.enapter.com)

### Build Your Energy Management System With EMS Toolkit 3.0

Integrate solar inverters, power meters, fuel cells, irradiance sensors, and other energy devices into your site to enable real-time monitoring, performance analytics, and efficient energy management.

[go.enapter.com/ems-toolkit](http://go.enapter.com/ems-toolkit)