Enapter

Electrolyser EL 2.1

Quick Start Guide

For well ventilated indoor use only	For humid environments additional IP68 protection is needed	Regularly check all parts for damage
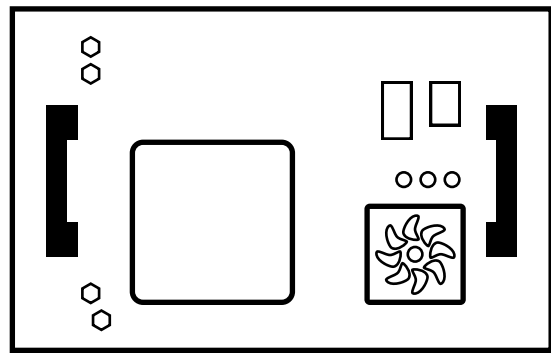
H2O In	Push fit connector OD pipes (8mm)
O2 Vent	Push fit connector OD pipes (10mm)
H2 Out	Swagelok male tube fitting (1/4")
H2 Purge	Swagelok male tube fitting (1/4")
Fill/Drain	CPC Female quick connector (10mm)
Dry Con.	Dry contact
ETH	Ethernet port
POWER	PCB 3-pin 7,62 mm female connector

⚠ **Alternating current voltage of 110-220 V is potentially lethal! All works on assembly and installation should be performed only with a disconnected power supply!**

⚠ **A valid safety concept must be in place. Usually this involves compliance with operating environmental conditions, sufficient ventilation and/or hydrogen detection systems at the installation site. For more details, please consult the user manual or contact Enapter.**

⚠ **Always check oxygen vent line line for clogs and damages. Never connect purge line with oxygen ventillation line.**

⚠ **Do not leave the device powered and unattended while in Maintenance mode.**

Guide version 1.8

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1 Installation and Connection

1.1. Install the Enapter app

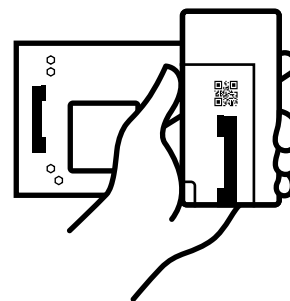To download the app, scan the QR-code with your phone or visit app.enapter.com

1.2. Make sure all pipes and wires are connected

Download the latest version of the Owner's manual from https://handbook.enapter.com

The Enapter EL 2.1 Owner's manual must be followed on electrical and piping connections, operation, transportation, storage and disposal steps.

Insert the two supplied jumpers into **the Dry Con. port** on the front panel of the EL. If a safety chain needs to be integrated, please jump to Dry Contact Connection Guide in Owner's manual.

Plug in the power cable (ground on top, neutral in the middle, live on the bottom) in **the Power Port.** Make sure ground is on the top. Switch the power on.

1.3. Follow the Enapter app instructions to connect the electrolyser to the Energy Management System

- Make sure the electrolyser is powered on.
- Open the Enapter app and create an account.
- Follow the steps to create a site.
- Add a new device.
- Scan QR-code located on the front side of electrolyser.

If you can't scan the QR code, enter the device ID and PIN manually. These are located on the back side of the electrolyser.

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2 The First Refilling Process

2.1 Prepare a few things:

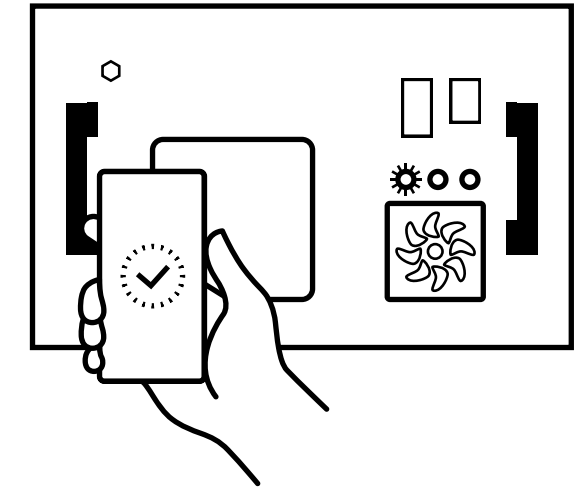|		
Refilling pipe	Electrolyte bag and threaded puncture seal (3.6L)	Personal protective equipment (PPE)

2.2. Refilling

The minimum required PPE equipment are safety goggles to protect from splashes and nitrile gloves.

Electrolyser must be in **Maintenance mode** and electrolyte tank is empty. If not contact support@enapter.com. **Do not leave the device powered and unattended while in Maintenance mode.**

Remove the original cap from the electrolyte bag. Screw the threaded puncture seal cap firmly, verify that it makes a seal. Fully insert the refilling pipe in the **Fill/Drain port.**

Carefully raise bag with filling solution above the device. **Never lift the electrolyte above your eye level.**

The solution will start filling the internal electrolyte tank immediately, if this does not occur, ensure the vent line is not obstructed.

2.3. Finish refilling

Full — Monitor refilling level on the screen. Pour until the App shows full tank. **Stop filling immediately, if the App prompts you to stop!**

To disconnect the electrolyte bag, press down on the button on **the Fill/Drain port** and pull the connector out of the port.

Exit — Confirm finish of refilling by pressing **the Maintenance Off Button** in the App.

⚠ **In case of a power outage during first refilling, the process must be repeated by completely draining the system and starting over.**

2.4 Monitor device activity in Enapter app

Status LEDs indications

Steady Green by default. Additional indications:

Power On	**Yellow, Red, Green blink thrice during selfcheck** When power is supplied to the machine.
Stopped	**All lights off** Machine is stopped and is awaiting user input.
Stand-by	**Green Blink** Max pressure state. Reached maximum pressure.
Maintenance mode	**Yellow steady** Used for maintenance tasks, such as safely replacing electrolyte or draining it.
Locate device	**Yellow, Red, Green blinking** When locate device is enabled.
Warning	**Yellow blinks** The system continues to work. The error is shown on Enapter's EMS. The Warning can be resolved automatically by fulfilling routine steps.
Error	**Red blinks** The system stops. The error is shown on Enapter's EMS. The Error can be fixed by switching the system into maintenance mode.
Fatal Error	**Red and yellow blink** The system stops. The fatal error is shown on Enapter's EMS. The Error can't be fixed by the user, contact support.
Panic	**Red and green or yellow steady** The system stops. The Panic Error is not shown on Enapter's EMS. A green light indicates a hardware problem, while a yellow light indicates a software problem. The Error can't be fixed by the user, contact support.

More info about Enapter devices on handbook.enapter.com.

For support write to support@enapter.com