

# KOH KIT

Preparing KOH solution for Enapter electrolyzers



## 1 Prepare

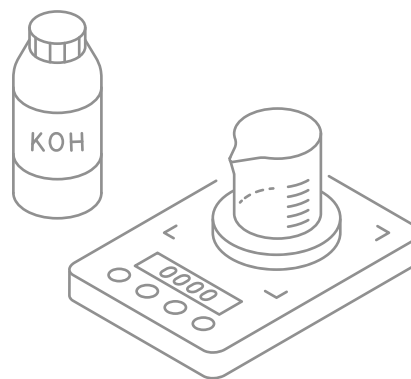
- **Check you have all supplied KOH kit materials.**
  1. 20L plastic canister;
  2. funnel;
  3. 20 mm transparent tube and female coupling valve;
  4. refilling pipe with bag adapter and male coupling valve;
  5. refilling bag (5 pcs.);
- **Additionally, you will need the following:**
  - KOH pellets,  $\geq 85\%$  KOH basis.
  - Demineralized water.

Recommended type II (ASTM D1193-06) and required acidity  $< 0.1$  meq/l (ASTM D1067), minimum conductivity  $< 2 \mu\text{S/cm}$ .

  - Technical scale.
  - Clean plastic or glass containers.

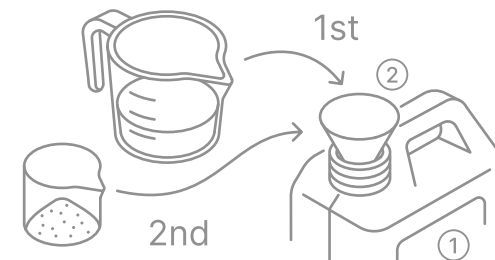
## 2 Weigh KOH

- Wear protective gloves, protective clothing, and safety glasses.\*
- Put a clean container to a technical scale and zero it out.
- Weigh the  $40.2 \pm 0.2 \text{ g}$  of KOH pellets per each electrolyser.



## 3 Mix With Water

- Put the empty 20L plastic canister ① on the technical scale.
- Fill it in with  $2025 \pm 25 \text{ g}$  of demineralized water per each electrolyser using a funnel ②.
- Using a funnel carefully and slowly put into the canister prepared amount of KOH pellets.
- Gently shake the canister to promote the dissolution of KOH.



### Download Enapter App

Enapter app makes devices setup and maintenance easier and fast.



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

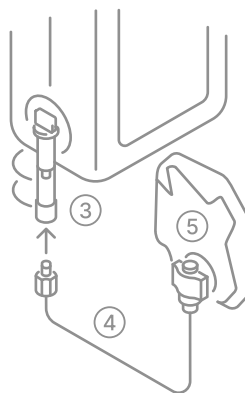
### Enapter Handbook

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

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

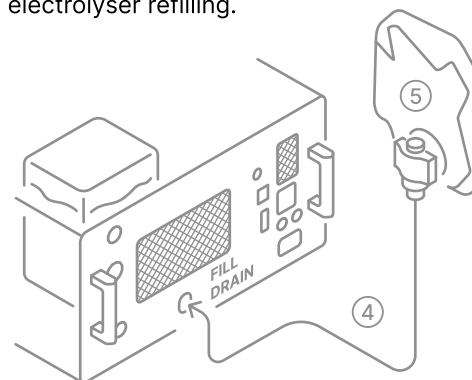
## 4 Fill Plastic Bag

- Keep plastic canister with prepared solution on the scale. **Zero scale out.**
- **Keep the canister cap open.**
- Connect the 20 mm transparent tube with female coupling valve ③ to the canister outlet. **Make sure the ties are securely fastened.**
- Using the refilling pipe ④ connect the refilling bag ⑤.
- Fill the refilling bag with  $2065 \pm 25 \text{ g}$  of electrolyte.
- Close the canister outlet.



## 5 Prepare for Refilling

- Disconnect the refilling pipe from the 20 mm transparent tube.
- Using the male connector of refilling pipe ④ connect the plastic bag ⑤ to the electrolyser's FILL/DRAIN port.
- Done! You are ready for the electrolyser refilling.



## 6 Cleaning and Storing

- Use demineralized water to clean all the elements you used and dry it.
- KOH KIT is ready for the next use.

### For Refilling One Electrolyser

KOH Concentrate	$40.2 \pm 0.2 \text{ g}$
Demineralized Water	$2025 \pm 25.0 \text{ g}$
Total Weight	$2065 \pm 25.0 \text{ g}$

\* Refer to the Material Safety Data Sheet (MSDS) of all chemicals used before handling them. The printed version is in the package, and it's also available online in the Enapter Handbook.

All persons mixing, draining, and handling the electrolyte must be informed about the chemicals and potential hazards.