

Dryer 4.1

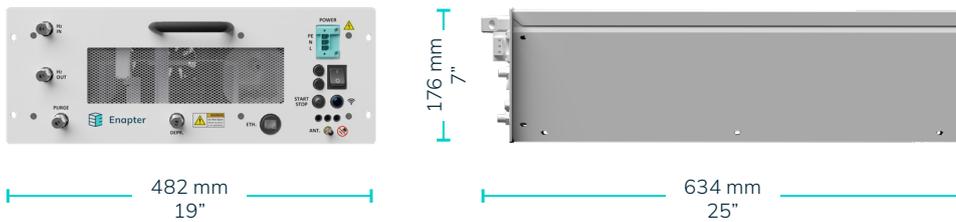


Enapter's dryer 4.1 is a hybrid temperature/pressure swing adsorption system that comprises of cartridges filled with a highly adsorbent material. The dryer 4.1 is maintenance-free. During operation, one cartridge catches the humidity from the hydrogen gas stream of the electrolyser, while the other cartridge is heated and regenerated. The dryer 4.1 is rack-mountable in a standard 19" cabinet.

- High efficiency
- Modules can be easily integrated in 19" racks
- Safe operation
- Quick and easy installation
- Low maintenance requirements
- Small footprint thanks to compact design

Specifications

Enapter
Dryer 4.1



Altitude	2000 m Ventilation requirement is the end Customer's responsibility for 2000+ m
Hydrogen Output Purity	≥ 99.999% in molar fraction
Output Pressure	Up to 35 barg (Up to 508 psig)
Characteristic Number	35 bar version: 2500 NL/h
Input Pressure	35 barg (508 psig)
Min. Input Purity	35 bar version (508 psig): >99.8%
Average dewpoint and impurities	< -70°C (-94°F), compliant with ISO14687 (H ₂ O < 5 ppm, O ₂ < 5 ppm)
Operative power consumption	200 W
Stand-by power consumption	10 W
Power supply	AC 200-240 V, 50/60 Hz
Ambient Operative Temperature Range	5 °C to 45 °C (41°F to 113°F)
Ambient Operative Humidity Range	Up to 95% Rh, non-condensing
Storage Temperature Range	2°C to 55°C (35.6°F to 113°F)
Storage Humidity Range	Max 95% Rh, non-condensing
IP rating	IP 20
Weight	12 kg (26.4 lbs)
Dimensions (W x D x H in mm)	482 × 634 × 176 mm (19" × 25" × 7")
Space inside cabinet	4 U
Maintenance	Maintenance-free
Control and Monitoring	Fully automatic with Enapter's EMS. Modbus TCP over Ethernet, offline/local commissioning available

Note: The product is under continuous improvement and the technical specifications and layouts might be subject to change.

