

Dryer

# DRY 2.1



Enapter's dryer is a hybrid temperature/pressure swing adsorption system that comprises of cartridges filled with a highly adsorbent material. The dryer is maintenancefree. 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 is rack-mountable in a standard 19" cabinet.

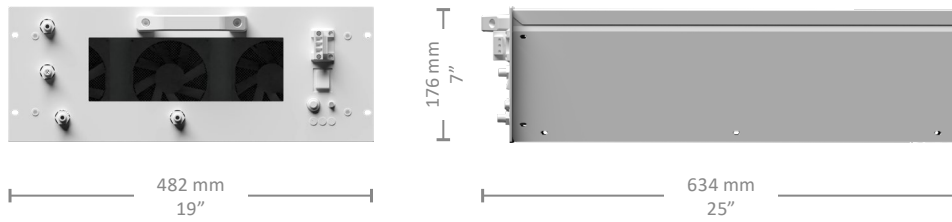
- ≡ High efficiency
- ≡ Modules can be easily integrated in 19" racks
- ≡ Safe operation
- ≡ Quick and easy installation
- ≡ Low maintenance requirements
- ≡ Small footprint thanks to compact design



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[www.enapter.com/dryer](http://www.enapter.com/dryer)

# Specifications

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<b>Hydrogen output purity</b>	> 99.999% in molar fraction
<b>Output pressure</b>	Up to 35 barg (Up to 508 psig)
<b>Hydrogen drying rate</b>	35 barg version: 2,500 NL/h 8 barg version: 1,000 NL/h
<b>Input pressure</b>	35 barg (508 psig)
<b>Min. input purity</b>	35 bar version (508 psig): > 99.8% 8 bar version (116 psig): > 99.0%
<b>Average dewpoint and impurities</b>	< -70 °C (-94 °F), compliant with ISO14687 (H <sub>2</sub> O < 5 ppm, O <sub>2</sub> < 5 ppm)
<b>Operative power consumption</b>	200 W
<b>Stand-by power consumption</b>	10 W
<b>Power supply</b>	AC 200 – 240 V, 50/60 Hz
<b>Ambient operative temperature range</b>	5 – 45 °C (41 – 113 °F)
<b>Ambient operative humidity range</b>	Max 95% Rh, non-condensing
<b>Storage temperature range</b>	2 – 45 °C (35.6 – 113 °F)
<b>Storage humidity range</b>	Max 95% Rh, non-condensing
<b>IP rating</b>	IP 20
<b>Weight</b>	23 kg (51 lbs)
<b>Dimensions (W × D × H)</b>	482 × 634 × 176 mm (19" × 25" × 7")
<b>Space inside cabinet</b>	4 U
<b>Maintenance</b>	Maintenance-free
<b>Control and monitoring</b>	Fully automatic with Enapter's EMS, Modbus
<b>Conformity</b>	CE mark according to the machine directive 2006/42/CE, Category I Classified as per 2014/68/EU PED, ISO 12100, EN 61000-6-3, EN 61000-6-2, IEC 61010-1, ASME B31:12, Electric Heating Appliances [UL 499:2014 Ed.14+R:22Oct2021] <sup>1</sup> , Industrial Heating Equipment [CSA C22.2#88:2019 Ed.2] <sup>2</sup>

<sup>1</sup> ETL recognized Dryer version only (DRY212535A2E)

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