



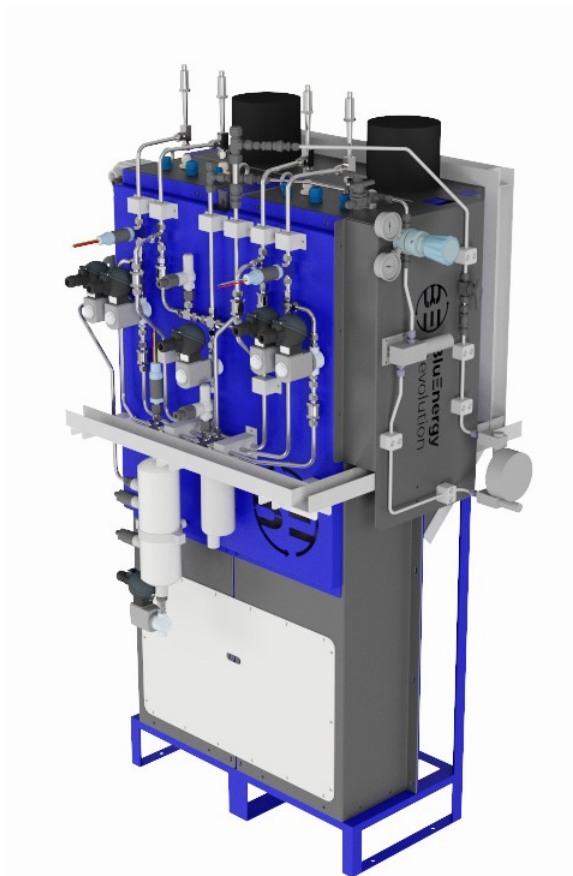
**BluEnergy**  
Revolution

Dryer

# DRYBER

2.5 kgH<sub>2</sub>/h

DRYBER is the Bluenergy Revolution dryer designed to withstand hydrogen flows up to 2.5 kg/h. The system is ATEX compliant and equipped with an easy integrable control box. A plug-in hydrogen analysis station can be added with moisture and oxygen sensors.



|  |                   |                                |
|--|-------------------|--------------------------------|
| Operating Pressure   | bara              | 30-35                          |
| PSV setpoint   | bara              | 38                             |
| H <sub>2</sub> outlet purity* <sup>1</sup>                 | %                 | 99.999%                        |
| Delivered pressure   | bara              | up to 35                       |
| Min. H <sub>2</sub> flowrate                               | kg/h              | 0.25                           |
| Max H <sub>2</sub> flowrate                                | kg/h              | 2.5                            |
| Max. H <sub>2</sub> inlet T.                               | °C                | 60                             |
| Required input   | g/h               | H <sub>2</sub> inlet flow      |
| Admitted H <sub>2</sub> O <sub>(l)</sub> in H <sub>2</sub> | l                 | 0 (H <sub>2</sub> liquid free) |
| Regeneration duration                                      | h                 | 4 - 8                          |
| Regeneration T.  | °C                | Up to 160                      |
| Cooling fan  | m <sup>3</sup> /h | 400                            |
| Cooling liquid   | -                 | water                          |
| IP rating  | -                 | IP23                           |
| Power supply   | Vac/A             | 230 Vac 1P+PE 20 A             |
| Weight   | kg                | 180                            |
| W x L x H (hardware)                                       | mm                | 1036x643x1640                  |
| W x L x H (ele. cabinet)                                   | mm                | 1000x600x250                   |
| W x L x H (chiller)  | mm                | 755x535x837                    |
| H <sub>2</sub> inlet & delivery conn.                      | Inch              | 3/8 OD                         |
| H <sub>2</sub> vent conn.                                  | inch              | 1/2 OD                         |
| PSV conn.  | inch              | 3/8 OD                         |
| Condensate drains  | -                 | NPT ½ F & NPT ¼ F              |
| Remote control by  | -                 | Modbus, HMI                    |

\*<sup>1</sup> 5.0 H<sub>2</sub> is achieved at outlet if inlet only contains H<sub>2</sub>O as contaminant

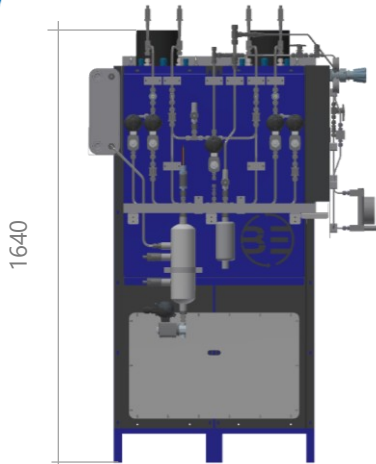


II 3G Ex h IIC T3 Gc

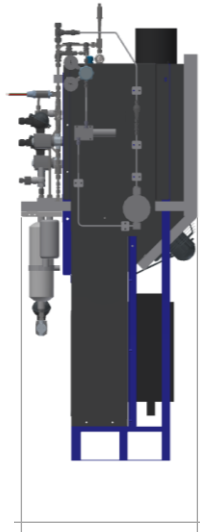


Dryer  
DRYBER

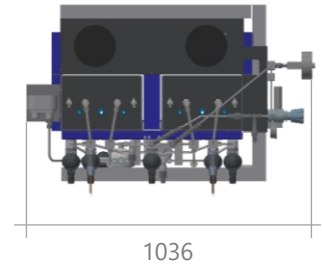
[www.bluenergyrevolution.com](http://www.bluenergyrevolution.com)



Weight: ~180 kg



643



1036

\* Chiller and Control board  
apart

## Design

- UNI EN ISO 1227-1:2019
- CEI EN 60204-1:2016
- UNI EN ISO 12100-1:2010
- UNI EN ISO 13849-1:2023
- UNI EN ISO 13850:2015
- UNI EN ISO 14120:2015
- CEI EN IEC 60079-10-2

## Applications

- Power-to-gas (from Electrolysers)
- Heat Treatment
- Fuel Industry
- Power Plant

## Custom products available

Bluenergy Revolution is able to supply custom version of the Dryber. In order to prepare a quotation, the following information are required:

- Inlet pressure
- Inlet flow rate
- Inlet temperature
- Inlet water content
- Outlet required pressure (dew point)
- Availability of external heating/cooling source

