

*Technical data*

**HYDROGEN/OXYGEN PRODUCTION**

- ▶ Service pressure..... **1,4 bar**
- ▶ Maximum flow rate ... **550 l/h**
- ▶ Run time.....1h at 100% between two refills
- ▶ Flame temp. ....> **2 500°C**

**ELECTRICITY, WATER AND ADDITIVE**

- ▶ Single-phase power supply ..... **230 Vac – 11 A Max**
- ▶ Rated power..... **2 kW (normal mode)**
- ▶ Maximum power..... **2,4 kW (BOOST mode)**
- ▶ Consumption of pure water\* ..... **0,25 l/h (normal mode)**  
\*Water with the purity level recommended by Castolin.
- ▶ Additive consumption\* ..... **0,10 l/h (normal mode)**  
\*Additive meeting the purity level recommended by Castolin..

**ELECTRONIC FUNCTIONS, INSTRUMENTS AND INTEGRATED SYSTEMS**

- ▶ Buttons and indicator lights
- ▶ LCD screen with real-time user messages
- ▶ Visual and audible alarms (LEDs and buzzers)
- ▶ « Auto leak test» function
- ▶ Integrated safety functions
- ▶ USB (5 V) telephone recharge
- ▶ 1 pressure gauge + digital display
- ▶ Electronic pressure controller
- ▶ Ergonomic auto-pilot flame (flame colouring system and gas odourisation for greater safety)
- ▶ 1 quick connector with seal and safety lock

**SAFETY AND COMPLIANCE**

- ▶ CE marking
- ▶ Safety systems with CE certificate (Cat. IV DESP 97/23/CE)
- ▶ IP21
- ▶ Flashback arrestor systems (ISO 5175 and EN 730)
- ▶ Self-extinguishing plastic housing (UL94 V2 and HB)

**DIMENSIONS, WEIGHT AND HANDLING**

- ▶ Length x Depth x Height (mm) ..... **395 x 360 x 960**
- ▶ Weight ..... **35 kg**



**OHM**  
Oxy-Hydrogen Mobile 2.4



**Castolin**  
Specialist in quality joining



**OHM**  
Oxy-Hydrogen Mobile 2.4

THE NEW WATER-BASED OXY-FUEL STATION

**REPLACE YOUR GAS CYLINDERS WITH WATER**

**A CLEAN FLAME GENERATED FROM WATER AND ELECTRICITY**

Portable, smart, safe gas generator.  
Dyomix® technology

Ergonomic torch

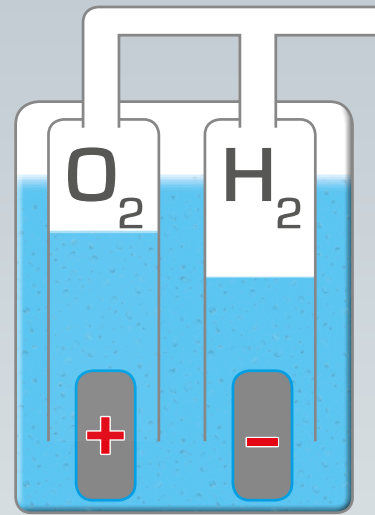
High performance flame

Clean fuel

Castolin® and Dyomix® are registered trademarks. Images and non-contractual descriptions that can be modified at any time. Copyright Castolin 10/2017. All rights reserved.



With CleanTech dyomix® it is possible to easily produce a clean high-performance fuel from the oxygen and hydrogen naturally present in water, with no storage requirements. The flame produced by this process, burns at more than 2500°C, and is particularly suitable for the needs of those professionals using a flame torch in their daily work.



Water electrolysis

The dyomix® flame obtained is compatible with all brazing products (filler metals and fluxes) on the market.

No new specific training is required.

**RAISED HANDLE**

- ▶ 96 cm high for greater ease of movement

**DUAL PRESSURE DISPLAY**

- ▶ Readout on the pressure gauge and monitoring screen, to indicate whether or not your machine is under pressure, even with the power off.

**LARGE MONITORING SCREEN**

- ▶ Access to the different modes and functionalities with easy readability

**OHM 2.4 WITH EMBEDDED DYOMIX® TECHNOLOGY**

- ▶ Ease of transport and handling
- ▶ Intuitive use, «Start&Stop» function
- ▶ On-demand gas production, with no storage required
- ▶ Pre-set gas for optimum quality
- ▶ Safety: auto leak test
- ▶ Embedded intelligence with several modes, numerous functions and production data

**FLASH-BACK ARRESTOR AND QUICK CONNECTOR**

- ▶ Second flash-back arrestor system for double safety
- ▶ Self-sealing quick connection system for the safe and easy mounting and dismantling of your hose

**HANDLE STAND**

- ▶ Extremely practical for ease of handling (on a stairway for example)

The dyomix® oxy-hydrogen flame technology has been used and tested intensively in the industry since 2009. Robust, efficient and safe, innovative and patented, the dyomix® electrolyzers have now been miniaturized to be used directly on site.

Compact, lightweight and mobile, the Castolin dyomix® OHM 2.4 is a major innovation. 100% made in France, it is intended for professionals such as refrigeration or heating specialists, plumbers and for any other work requiring a flame.

The Castolin dyomix® OHM 2.4 is a unique equipment with the latest eco-innovative technologies.

It was thought to be easy to use.

By choosing Castolin dyomix® OHM 2.4, users simplify their logistical constraints, reduce the level of risk of their daily activities and have a clean, high-performance flame on-site, at all times.

**BUILT-IN COMPARTMENTS FOR CONSUMABLES**

- ▶ Refills housed in protected compartments

**AUTOFLAM OH TORCH**

- ▶ Sturdy, lightweight, user-friendly handle
- ▶ Swivel connector
- ▶ Flow rate control
- ▶ Extensive range of accessories
- ▶ Flash-back arrestor system for integrated double safety

**HANDLES FOR HANDLING OPERATIONS**

- ▶ 2 sturdy, ergonomic handles for greater comfort during your handling operations

**STURDY, LIGHTWEIGHT UNIT**

- ▶ High fire-resistant plastic housing
- ▶ Sheet metal parts in aluminium



The AutoFlam OH torch has been entirely developed for full compatibility with the dyomix® technology.

- Its unique design and swivel connector at the torch inlet, make it extremely ergonomic, lessening musculoskeletal disorders (MSD).
- Its double action flame arrestor is directly built into the handle, ensuring perfect safety throughout the use of the torch.
- The materials used are compatible with the oxy-hydrogen gas, making for a very sturdy, lightweight and perfectly balanced AutoFlam OH torch.



**COST-EFFECTIVE**

**Make cost savings and stabilise your brazing-related expenses**

- ▶ No more gas cylinders required
- ▶ No more time lost in transportation
- ▶ CASTOLIN dyomix® OHM 2.4 payback in just 24 months

**RISKS AND SAFETY**

**Reduce risks and increase the safety of your personnel at your facilities**

- ▶ No more transport, storage and handling of gas cylinders!
- ▶ No more gas cylinder handling risks

**EFFICIENCY / SIMPLICITY**

- ▶ **Plug & Braze** : Simple and with no need for adjustment.
  1. Switch on the machine
  2. It's ready to braze
- ▶ High performance heating, thanks to the enhanced conductivity of the dyomix® oxy-hydrogen flame compared to the oxy-acetylene flame.
- ▶ No more pressure adjustments (on the reducers)
- ▶ No more complicated torch ignition and adjustments

**OCCUPATIONAL HEALTH**

**Improve your working conditions and protect your health<sup>1</sup>**

- ▶ 85% of carbon monoxides (CO) in the flame removed
- ▶ Reduction of around 25 db(A) in the noise level (depending on user adjustments)
- ▶ A flame with no damaging UV rays, so there is no longer a need for tinted lenses<sup>2</sup>
- ▶ Ergonomic torch with swivel connector and a single hose: no more MSD

<sup>1</sup> Comparative study with oxy-acetylene / <sup>2</sup> if allowed by the application

**SUSTAINABLE DEVELOPMENT AND THE ENVIRONMENT**

**Reduce your environmental impact and adopt a carbon-free brazing process**

- ▶ CleanTech : eco-innovation
- ▶ An end to gas cylinder transportation!
- ▶ 94% reduction in the brazing carbon footprint