

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



dyomix®
SMART FLAME TECHNOLOGY



Water electrolysis

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.

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

No new specific training is required.

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.



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.

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 dismounting of your hose

HANDLE STAND

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



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

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
- ▶ 15 times more economical than a 1m³ oxyacetylene station

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 ¹

- ▶ 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 lenses²
- ▶ Ergonomic torch with swivel connector and a single hose: no more MSD

¹ Comparative study with oxy-acetylene | ² 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



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 – max 11 A**
- ▶ Rated power.....**2 kW (normal mode)**
- ▶ Maximum power.....**2,4 kW (BOOST mode)**
- ▶ Pure water consumption***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 odorisation 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**38 kg**

PRODUCTS REFERENCES

DESCRIPTION	ESC CODE	REFERENCE
Complete Castolin OHM 2.4 (Delivered with the AutoFlam OH kit)	765269	24 OHM
AutoFlam OH kit (with torch, 1 piloted nozzle and 2x1.5 nozzles, 5 meter hose, quick connector - male, goggles, gas igniter)	765267	765267
AutoFlam OH torch (torch only with piloted nozzle)	765256	765256
OH piloted nozzle	765259	765259
Mono-dart nozzle 1,5 OH	765260	765260
Mono-dart nozzle 1,9 OH	765261	765261
Ultra-pure CASTOLIN H ₂ O water for OHM 2.4 (250 ml bottle)	765270	24 H2O 0250
Altering CASTOLIN ADDITIVE for OHM 2.4 (125 ml bottle)	765271	24 ADD 0125
Ultra-pure CASTOLIN H ₂ O water for OHM 2.4 (5 l drum)	765507	24 H2O 5000
Altering CASTOLIN ADDITIVE for OHM 2.4 (5 l drum)	765508	24 ADD 5000

