

Decarbonize and secure your oxy-flame applications

Generate on-site, on-demand and without storage:

Your clean, high-performance oxy-hydrogen gas for flame applications.



The Dyoflam Solution

Based on the principle of electrolysis

It allows the production of a clean and efficient fuel **on-site, without storage or transport**, from water and electricity, to power industrial oxy-flame applications.



- Start & Stop**
On-demand production
- Invariable gas quality**
For high-quality, standardized brazing operations
- Data monitoring**
Access and track past and current production data
- Separate line controls**
Independent pressure control for each gas line
- Multi-production mode**
Adaptable to application needs

- Gas pilot flame**
Maintain pressure settings throughout operations
- Integrated ignition**
With a simple and secure piezoelectric system
- Flexible use**
Install your station wherever you want
- Enhanced protection**
With dual safety flashback arrestor and filtering column
- Single-flow adjustment**
Controlled via dedicated knob, no gas pressure gauge needed

For manual or automated oxy-flame applications



Strong & soft brazing



Micro-flame



Oxy-cutting



Braze welding



Flame polishing



Glassworking



Heat treatment

Performance & efficiency

Enhance your oxy-flame process

Gas autonomy & independence

Produce your own oxy-hydrogen gas on-site, without storage or transport.



Performance & flexibility

A naturally neutral flame with invariable quality, 10 times more conductive than oxy-acetylene flame. No fixed gas network constraints, move your workstations freely.



Safety for employees & infrastructure

No pressurized gas cylinders, no risks associated with gas storage (leaks, fire, explosion...)



Health benefits

Improve working conditions

Visual comfort

0 harmful UV emissions from the hydrogen flame. **No need for tinted safety glasses.**



Hearing comfort

Up to 30 dB(A) quieter than an oxy-acetylene flame.



Torch ergonomics

30% lighter, with a single gas hose and **rotating connector**, significantly reducing work-related musculoskeletal disorders (MSDs).



Air quality

7 times less CO emissions compared to **oxy-acetylene flames**.



Ecological Impact

Reduce your process's carbon footprint



94% lower

Environmental impact than oxygen and acetylene cylinders.



92% CO2 reduction

In your daily oxy-flame applications. Using e-gas flame means adopting a sustainable process and reducing environmental footprint.

Dyoflam Electrolyzers

Specifications



Electrolyzers	Dyoflam (M4)	Dyoflam (M6)	Dyoflam (M12)
Performance	4kW/h	6kW/h	12kW/h
Number of Gas Outlets	1	2	2 à 4
Production	1 050L/h	1 600L/h	3 200L/h
Consumption: Pure Water – Evaporator Liquid	0,55 L/h - 0,11L/h	0,85 L/h - 0,17 L/h	1,7 L/h - 0,34 L/h
Dimensions (mm): Height – Width – Depth	766 mm - 453 mm - 740 mm	935 mm - 453 mm - 740 mm	972 mm - 703 mm - 976 mm
Weight	138 kg	172 kg	312 kg

Our experts support you

In adopting the e-gas (hydrogen) flame



Try a Dyoflam in your workshop

Receive a Dyoflam expert in your workshop to test the solution in real application conditions. Our teams and engineering department will help you assess the best configuration for your needs.

«Ready to start» Support

Our teams assist you with the installation, commissioning of your Dyoflam solution, and operator training on equipment use.

Benefit from Bulane's expert network

Bulane provides broader support for your project by giving you access to its network of specialized industry partners : application consulting, specific training, and process automation...

Our Clients and Partners

They Trust Us

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Carrier
TRANSIGOLD

Continental
CONTITECH

Nidec

THALES

Parker

Epta

GEA

LENNOX

Bonnet
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elt

serap

altes

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de SOUDURE
GROUPE

De Dietrich

LEROY
SOMER

“We chose Bulane for our clients because Dyoflam is a clean alternative to existing solutions.”

“For each of the five e-gas flametorches we have installed, we save 5 tons of CO2 per year, equivalent to 30,000 km driven by car.”

“The lightweight, easy-to-handle torch, the adjustment-free flame, and the use of clear safety glasses are a great innovation for the comfort of our operators.”

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