



**When your mission ends,
ours begins**

PPE HYGIENE SOLUTIONS



JVD, Products that care

40 years of professional hygiene service

A **French SME** with international reach that designs and manufactures hygiene products in **France** that take care of you, your customers, your patients, and your employees.

A mission that is close to our hearts and which motivates our desire every day to design, develop and manufacture our products.



HAND
HYGIENE



HYGIENE OF THE
PREMISES



CONNECTED
HYGIENE



AIR
HYGIENE



PPE
HYGIENE

Protect & support teams exposed to risks

At JVD, we design and manufacture PPE hygiene solutions to **decontaminate, disinfect, dry and deodorize the equipment** of teams exposed to cold, humidity or health and toxic risks, while ensuring to optimize their energy, financial and environmental impact.

noyen
By JVD



HYGitec
By JVD



Hygiene of PPE, key challenges for firefighters

HEALTH

PPE that can become vectors of contamination.

AVAILABILITY

Long maintenance/drying, manual or natural, poorly compatible with operational constraints.

COST CONTROL

Increasingly technical equipment, frequent washing, use of chemicals, overstocking = constraints and costs.



Novven 3, your everyday ally

After three years of development and **co-design with firefighters**, the new Novven 3 cabinet takes care of your PPE.

With **optimized decontamination, accelerated drying and ergonomics designed** for your daily life, it stands out as the most advanced product on the market for the maintenance of intervention clothing.

**Decontamination, deodorization, drying
& disinfection cabinet**



A key solution

with multiple benefits

HEALTH

- Helps **protect the health** of firefighters by reducing exposure to PAHs and other pollutants.
- Limits the risks of **microbiological** contamination (bacteria, fungi, viruses).
- Maintains a **healthy** and secure **storage** environment for equipment.

AVAILABILITY

- 3 times faster in desorption and drying time.
- Guarantees **dry** and **odor-free** PPE (fumes, perspiration).

COST REDUCTION



Durability x 4



**Interval between
washes**

A single solution for all PPE

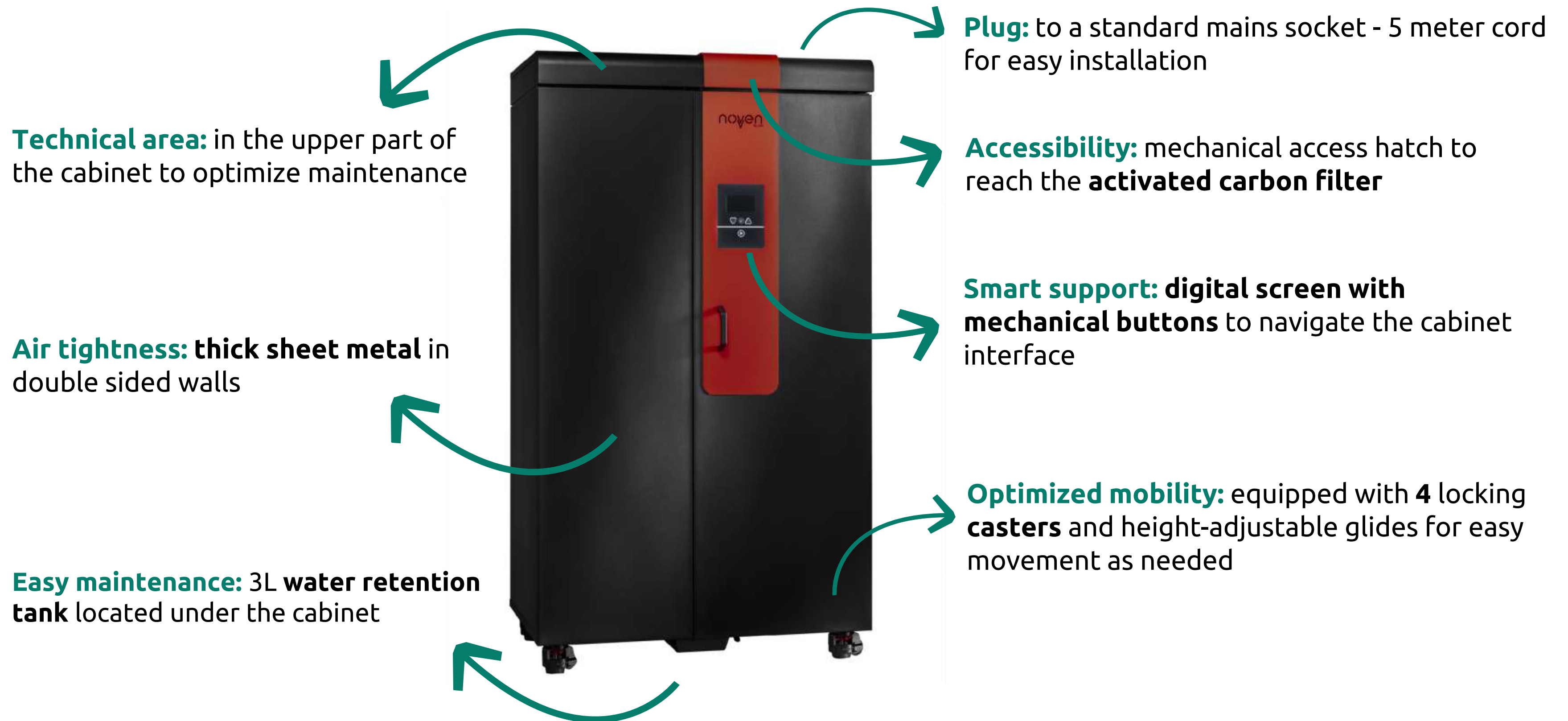
→ Novven 3



→ Novven 3S



A simple cabinet to handle



Intuitive navigation

A digital screen that guides the user step by step.
Mechanical selection buttons to ensure proper pressure even when wearing gloves.

A simple menu:

- ✓ **Program** → Program selection
(Disinfection, Drying, SCBA Drying, Decontamination)
- ✓ **History** → Tracking of cabinet life events (log of uses and events)
- ✓ **Maintenance** → Monitoring the lifespan of components
(filter, generator, and critical failures)
- ✓ **Settings** → Time setting, language and customizable thresholds
(filter and generator)
- ✓ **Favorites** → A shortcut to favorite programs for quick start-up

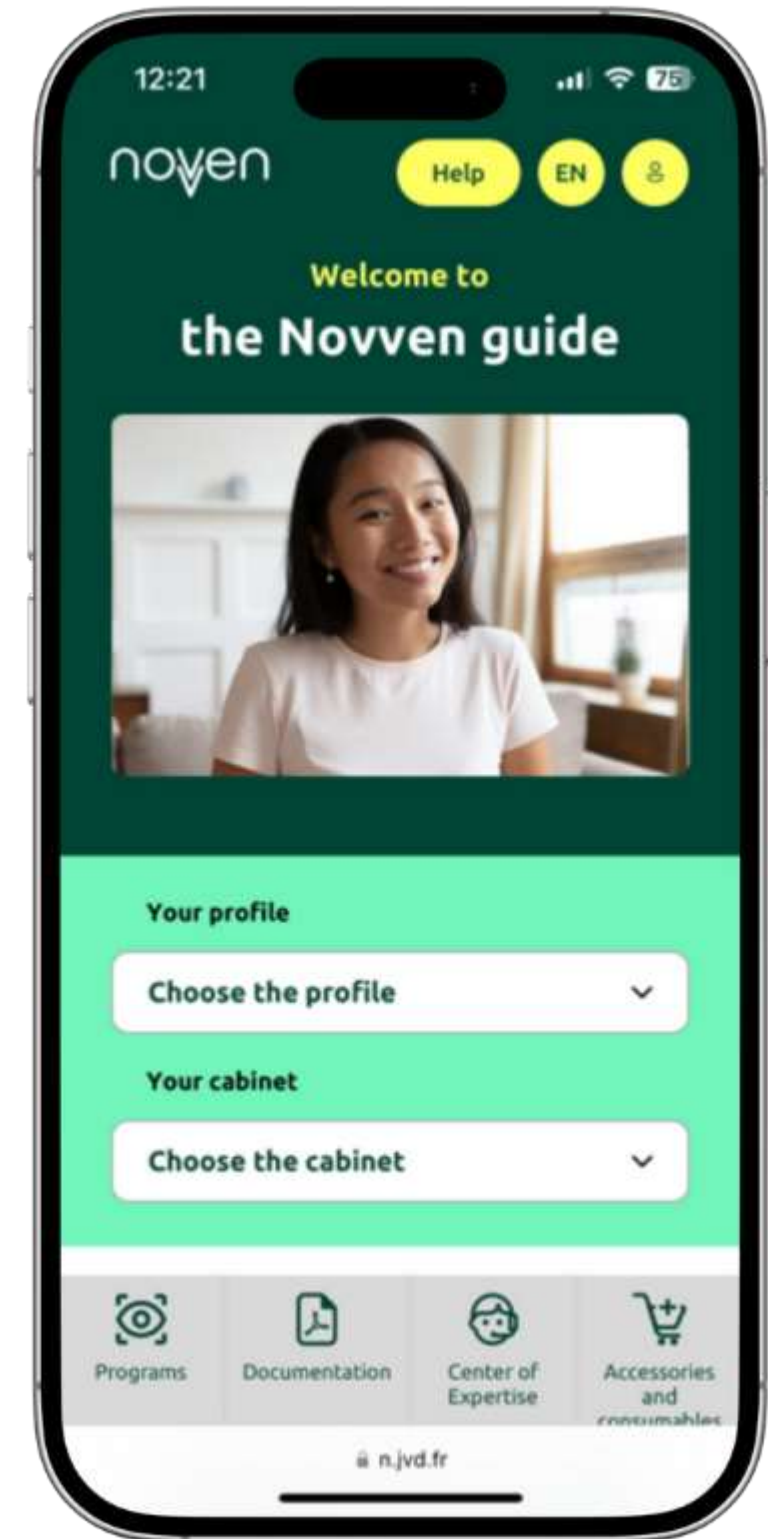


A digital space to understand everything

Resource Center

Thanks to the QR code on the cabinet screen, the Digital Resource Center is designed to **support** each user **step by step** and **24/7**.

- ✓ Discover the features and best practices for use
- ✓ Consult the guides, instructions and FAQs online
- ✓ Watch video tutorials for quick start
- ✓ Access product sheets, accessories and maintenance advice
- ✓ Stay informed about updates and news



Detailed monitoring of the cabinet's life

Traceability and maintenance

To improve monitoring of the maintenance protocol, the cabinet ensures:

- ✓ **Life Journal:**
Continuous monitoring of cycles carried out and their proper execution, to strengthen traceability and operational control.
- ✓ **Simplified maintenance:**
Automatic monitoring of component life, with alert if critical threshold is reached:
 - **Filter:** lifespan 6 months (at a rate of one cycle of 4 hours per day)
 - **Generator:** average lifespan of approximately 5 years.

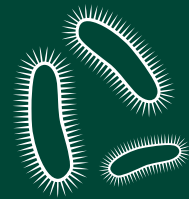


Very high levels of performance

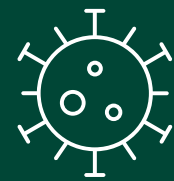
Certified by independent laboratories

DISINFECTION

- High virucidal, bactericidal and fungicidal power
- Effective reduction of odor-causing molecules



99.999% reduction
bacteria



99.999% reduction
viruses



99.999% reduction
mold



Anti-odor treatment
and disinfectant

Very high levels of performance

Certified by independent laboratories

DECONTAMINATION

- Analysis of **24 PAHs** on samples of firefighting clothing (outer layer, lower membrane)
- including: Acenaphthene, Benzo[a]pyrene, Pyrene and Naphthalene ...

After treatment, without primary decontamination, the following results were obtained*:

- **74%** efficiency on the **internal membrane**
- **62%** efficiency on the **outer layer**

** on the Novven 2 version*

Validated on a wide range of equipment



- PAH decontamination test on Nomex twin SDIS85 830 fabric
- Mechanical test (strength and tear) on 830 Nomex Twin SDIS85 and 830 Twin Square BSPP after 60 hours of exposure.



- Mechanical tests on F1XF and F2XR helmets (60 hours exposure)



- Mechanical tests on all shoe ranges (exposure up to 100 hours)



- Mechanical tests on all shoe ranges (60 hours exposure)



- Mechanical tests on bulletproof vests (plate, soft pack and cover) (60 hours exposure)



- Mechanical tests on type B and type C polo shirts (60 hours exposure)



- PAH decontamination test on type B and C gloves (in progress)
- Mechanical test on type B and C gloves (60-hour exposure) (in progress)



MARCK & BALSAN

- Mechanical tests on the filter hood (60 hours exposure)

A cabinet that professionals recommend



4.8 / 5

Recommended the Novven 3
cabinet to a peer

+1500

cabinets installed in
stations around the
world

THEY TRUST US



OUR PARTNER NETWORKS



A unique and patented technology

Smart Air Care®

the technology that controls every parameter.

Controlled with precision, it adjusts its settings according to the chosen program - drying, disinfection, deodorization or depollution.

3 parameters based on the combination of ozone, temperature and treatment time.



A solution at the heart of the interview protocol



In the field of intervention

Manual Rinsing
with soapy water and/or
chemicals



back to the barracks

**Drying, deodorization,
disinfection &
decontamination**
in the Novven cabinets



less frequently

Machine cleaning
in-house or outsourced laundry

Easy to get started

Programs designed to effectively meet operational needs

PROGRAMS



Decontamination

Drying, deodorization and decontamination



Disinfection

Drying, deodorization and disinfection



Drying

Drying and deodorizing



SCBA drying

SCBA drying

DURATION

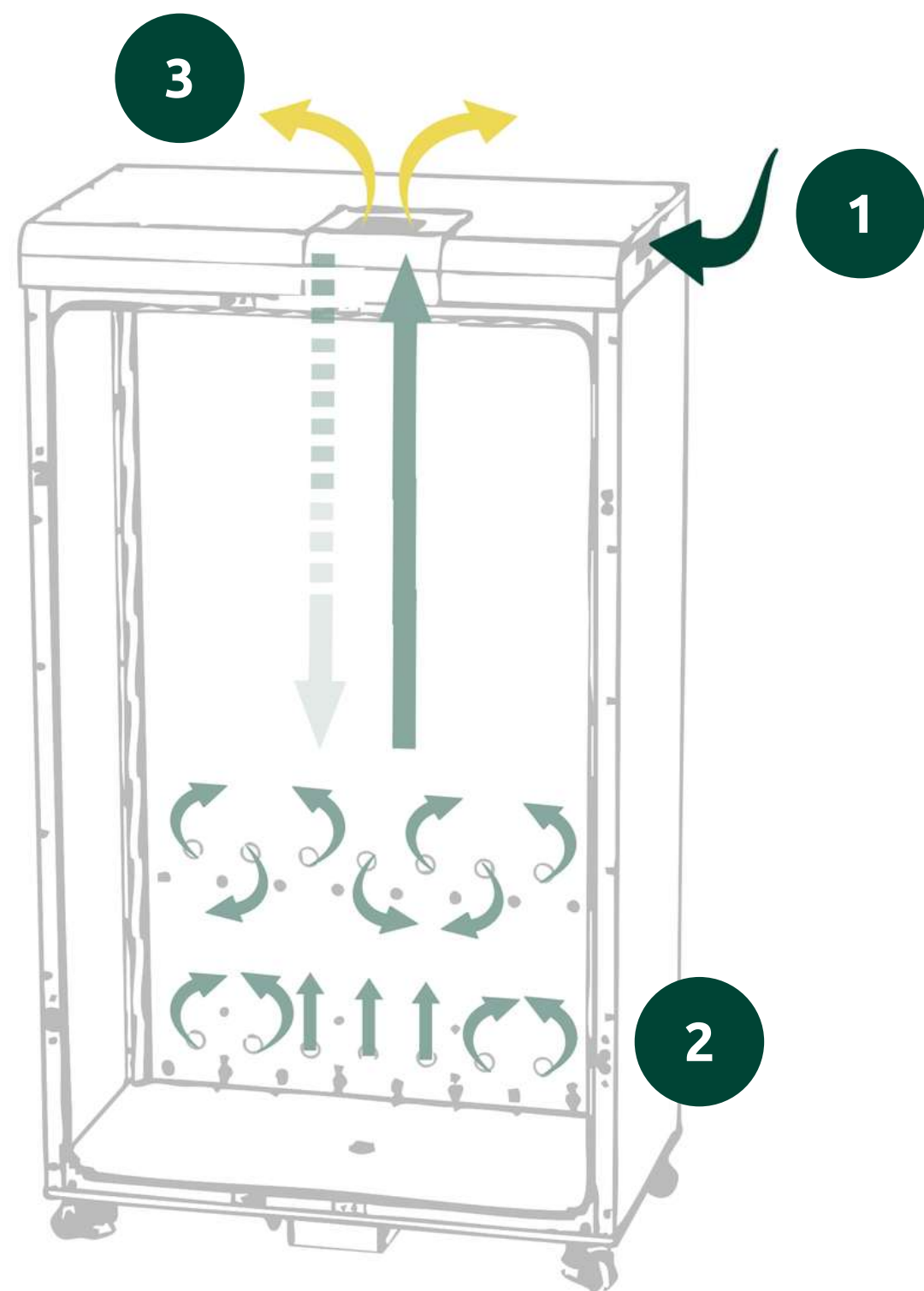
2 hours -
daily cycle

4 hours -
in case of
pandemic

6 hours -
in case of heavy
loading



Operating principle



- 1 **Even** and efficient air circulation thanks to **powerful aeraulics**.
- 2 **Accessories optimized** to maximize treatment efficiency.
- 3 Extraction system via activated carbon filter.
- 4 **Eco-designed** to limit the resources needed (no water, no chemicals, low energy consumption).

Accessories designed to make everyday life easier



Wide hanger



Drying bar



Wide clip hanger



Hood support



Spray vaporizer



Magnetic hooks



Grid N3



Our other solutions to support your Everyday PPE

→ HYGIfeet



Shoe dryer:

to dry and disinfect the inside of footwear (rangers, boots, etc.)

- From 5 to 60 pairs
- Dedicated sleeve (black); opening the airflow under the weight of the shoe.
- On casters for easy floor maintenance.
- Made of epoxy steel and 304L stainless steel ensuring robustness to the device.



Our other solutions to support your Everyday PPE

→ HYGIstore Mask



SCBA mask drying cabinet:

- From 8 to 100 ARI masks per cabinet.
- A cabinet dedicated to drying ARI masks.
- drying temperature below 45°C.
- Height-adjustable grids included.





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