

Portable High-Vacuum Filter Units

Ideal for on-torch or small nozzle extraction. Captures fumes at the source and improves air quality.



PLYMVENT[®]
clean air at work

The source of clean air

From capturing at the source to the removal of hazardous fumes: improving air quality to protect the worker.

High-vacuum units offer strong suction power, making them ideal for source extraction, such as on-torch or small nozzle fume capture. These methods remove harmful welding fumes directly at the source, preventing worker exposure. As a result, workplace air quality improves, contributing to a healthier working environment.

On-torch extraction with a high-vacuum unit removes fumes directly at the welding arc, ensuring effective capture in any position without the need for repositioning. This saves time and avoids work interruptions.



Welding torch compatible

All our high-vacuum units are compatible with torches from leading manufacturers such as Abicor Binzel, TBI Industries, ESAB, Fronius, Lincoln Electric, Miller Electric and Trafimet.



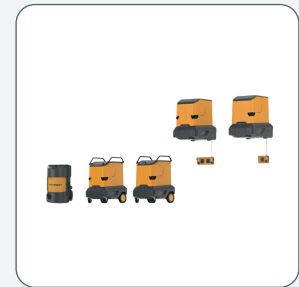
Sufficient vacuum & airflow

From the PowerJet Mini to the Ultra Twin, all units deliver the vacuum level and airflow required for effective on-torch extraction.



Airflow control

The ability to set the airflow per user is important to achieve the right balance between extraction performance and shielding gas protection.



Complete high-vacuum range

Plymovent offers a full range of high-vacuum units designed to meet every need. From light-duty jobs to multi-torch extraction.

PowerJet Mini

Ideal for welders working occasionally in tight spaces or on-site locations where equipment needs to be transported.

Keeps welders safe by capturing fumes before they reach the breathing zone, even in challenging environments. Designed for light-duty welding applications, it delivers a constant, reliable airflow for on-torch or nozzle-based extraction. Saves time with easy mobility and reduces running costs through efficient operation.

It achieves this with powerful motors, stepless speed control, and a large high-efficiency filter that lowers energy consumption and extends filter life. The automatic start-stop system improves efficiency, while the telescopic handle makes transport simple. A built-in airflow indicator monitors performance and warns of blockages so they can be resolved quickly. Fully compliant with ISO 21904 for safe, effective fume extraction.



Telescopic handle for easy transport and storage



Stepless speed control & Airflow indication



Filter size 15 m²
(162 ft²)

filter size



filter media

Disposable,
Cellulose with
Nanofiber filter +
HEPA H14 filter



Stepless motor
speed control



Max flow

330 m³/h (194 cfm)



Max vacuum

23,5 kPa (94" WG)

PowerJet Basic

Built for welders handling medium-duty applications across multiple workstations, it delivers constant, stable airflow for effective fume extraction in any welding position, keeping harmful fumes away from the breathing zone. Ideal for daily use, it minimises downtime through low-maintenance operation and offers clear visual feedback to ensure safe performance at all times.

This performance is powered by a state-of-the-art brushless EC motor for long service life and efficiency. ISO-Flow technology ensures stepless, constant airflow control via a push-and-twist knob, continuously monitoring and maintaining the set level in compliance with ISO 5167. A large, high-efficiency filter reduces energy use and extends filter life. AutoCheck adds safety with hose and filter detection plus a lid safety lock, while a dynamic LED bar shows the system's status at a glance. Fully compliant with ISO 21904.



High dust load, ultra-fine filtration



ISO-Flow: Stepless control for truly stable airflow



Disposable, Cellulose with Nanofiber filter + HEPA H14 filter



Airflow control

Stepless control for truly stable airflow



Control

Push and twist control knob



Max flow

350 m³/h (206 cfm)



Max vacuum

27 kPa (108" WG)

PowerJet Ultra

Built for demanding welders who need precise airflow control during heavy-duty applications, the PowerJet Ultra builds on the features of the PowerJet Basic, adding advanced functionalities for intensive use. Designed for long-term performance, it reduces maintenance needs, minimises downtime, and ensures safe, reliable operation at all times.

Its ExactFlow control lets welders fine-tune airflow via a 2.5" touchscreen, maintaining the required m^3/h or cfm for optimal extraction. The HyperClean system automatically cleans the filters, preserving high filtration efficiency and extending filter life. DustLock Technology limits dust exposure with automatic drawer cleaning, a sealed disposable container, and an electronic safety lock to prevent accidental particle release. AutoCheck continuously monitors all key safety features, including compressed air levels and alerts the user when needed, ensuring safe and reliable performance.



DustLock Technology:
Zero dust exposure



ExactFlow: The airflow can be
precisely set to the exact $\text{m}^3/\text{h}/\text{cfm}$



filter media

Polyester with ePTFE membrane filter, suitable for filter cleaning



Airflow control

Stepless control for truly stable airflow



Control

2.5" touchscreen & push and twist control knob



Max airflow

350 m^3/h (206 cfm)



Max vacuum

27 kPa (108" WG)

PowerJet Ultra Twin

Built for two welders who want to work simultaneously and independently without compromising extraction performance, the PowerJet Ultra Twin builds on the features of the PowerJet Ultra, offering dual ExactFlow control and the same advanced functionalities for intensive use. Each welder can precisely adjust and maintain their own airflow, ensuring optimal fume capture in any welding position. Fumes are captured directly at the source, significantly improving air quality in the workspace.

Its two 2.500 W brushless EC motors deliver a maximum vacuum of 27 kPa (108" WG) and up to 350 m³/h (206 cfm) airflow per inlet. ExactFlow control via individual 2.5" touchscreens lets each welder fine-tune airflow to the required m³/h or cfm. The PowerJet Ultra Twin includes all advanced features and safety measures found in the PowerJet Ultra, such as HyperClean filter cleaning, DustLock Technology and the AutoCheck safety system.



ExactFlow: fully independent
airflow control per inlet



2 Ultra's in
1 PowerJet Ultra Twin



Filter media

Polyester with
ePTFE membrane
filter, suitable for
filter cleaning



Airflow control

Stepless control for
truly stable airflow



Control

2x 2.5" touchscreen
& 2x push and twist
control knob



Max flow

2x 350 m³/h
(2x 206 cfm)



Max vacuum

27 kPa (108" WG)

PowerJet Ultra & Ultra Twin: Wall

The PowerJet Ultra and PowerJet Ultra Twin are also available as stationary units. Ideal for workshops that prefer a fixed setup without compromising on performance, features, or safety. The units are easy to mount on the wall and can be operated via a wall-mounted control panel.

Features of the wall and mobile versions

Both the mobile and the wall mounted version of the Powerjet Ultra and Ultra Twin have the following features:

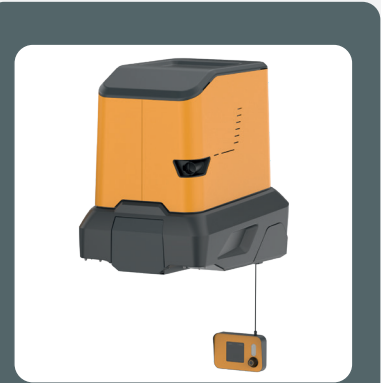
ExactFlow: precise, adjustable airflow per inlet, down to the m^3/h or cfm.

HyperClean: automatic filter cleaning system that maintains high filtration efficiency and reduces maintenance.

DustLock Technology: minimizes dust exposure through automatic dust container cleaning, a sealable disposable container, and an electronic safety lock.

AutoCheck: an integrated safety system with inlet hose detection, filter detection, a dynamic LED status bar, and compressed air level checks to ensure safe operation at all times.

Brushless EC motor(s): the Ultra Wall has one, the Ultra Twin Wall two. Each motor lasts up to 20.000 hours.



PowerJet Ultra Wall



PowerJet Ultra Twin Wall

Select the right HV-unit

		PowerJet Mini	PowerJet Basic	PowerJet Ultra	PowerJet Ultra Twin	
Use	Welding applications	Occasional	Medium-duty	Medium to heavy-duty	Medium to heavy-duty	
	Annual welding wire consumption		Up to 1.000 kg MIG/MAG or 500 kg electrode	> 1.000 kg MIG/MAG or > 500 kg electrode	> 1.000 kg MIG/MAG or > 500 kg electrode	
Features & safety measures	Number of inlets	1	1	1	2	
	ISO-Flow (ISO 5167 compliant)		✓	✓	✓	
	ExactFlow			✓	✓	
	HyperClean			✓	✓	
	DustLock Technology			✓	✓	
	AutoCheck	Inlet hose detection		✓	✓	✓
		Filter presence detection		✓	✓	✓
		Electronic safety lock on top cover		✓	✓	✓
		Electronic safety lock on dust drawer			✓	✓
		Compressed air detection			✓	✓
ISO/HEPA	ISO 21904 compliant	✓	✓	✓	✓	
	HEPA Filter	✓	✓	✓	✓	
Options	MCC-06 Sensor (automatic start-stop system)	✓	✓	✓	✓	
	Adapter with hose for exhaust to the outside*	✓	✓	✓	✓	

PLYMOVENT®
clean air at work

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* Available where air recirculation is not allowed