



Donaldson.
FILTRATION SOLUTIONS

DFPRE 1

PLUG-AND-PLAY

MOBILE FUME COLLECTORS





DFPRE 1

PLUG-AND-PLAY MOBILE FUME COLLECTOR

Welding and finishing operations generate fumes classified as highly harmful by European and local regulatory bodies. Modern metal fabrication necessitates innovative approaches to handle emerging techniques and applications, production demands, and increasingly stringent regulations. Meeting these evolving needs requires filtration solutions that seamlessly adapt to various layouts and workflows, effectively eliminating process emissions to establish a safer and healthier work environment.

To address this, Donaldson has developed the DFPRE 1 Series, which provides compact, convenient, and reliable solutions, ensuring optimal uptime for enhanced safety during metal working operations. The DFPRE 1 is designed to be easy to install, maintain, and operate, while delivering superior filtration performance

Designed with welding and finishing operations in mind, the DFPRE 1 Series offers seamless integration: effortlessly connect its single-phase 230V AC power source, and you're set to start working. Its unmatched versatility is further enhanced by the option to connect compressed air solely during cleaning phases, maintaining filtration quality without compromise. Equipped with renowned triangular cartridge filters featuring Ultra-Web® Fine Fiber media and efficient pulse cleaning, it guarantees peak performance and reduced operational expenses for continuous and high-emission applications alike.

PERFORMANCE PACKAGED FOR CONVENIENCE

EASY INSTALLATION

- Plug-and-play
- Single-phase electric power
- No need for a compressed air connection at the working station
- No ductwork required*

* Local regulations may restrict air recirculation, and if so, ductwork might be required for extraction.



SOURCE CAPTURE THAT SUPPORTS AIR RECIRCULATION AND EXTRACTION.

- Fumes are captured before reaching the worker's breathing zone and before they are dispersed throughout the workshop.
- Choice between Louvre or Flange outlet plates for air recirculation or external evacuation.
- The outlet plate can be replaced to accommodate future requirements.

EFFICIENT USE OF SPACE

- 360-degree arm rotation and mobile collector to enable workers to smoothly reach their optimized working position.
- Up to 2 extraction arms can be used simultaneously for concurrent work.

READY FOR HEAVY DUTY

- Donaldson's industry-leading Ultra-Web® fine fiber filtration technology ensures efficient filtration even during continuous work on very high emissions applications
- Optional HEPA filters for situations where workers are directly exposed to recirculated air (99.95%)
- The pulse cleaning operation ensures unmatched extraction performance and extended filter lifespan.
- Total extraction capacity with two extraction arms is up to 1950m³/h

EASY MAINTENANCE

- Manual cleaning mechanism with ΔP indicator and push button
- Compressed air connection only required during offline cleaning
- Easy filter change-out - No special tools are required

COST EFFICIENT

- On demand pulse cleaning reduces compressed air consumption (75L/min per cleaning sequences)
- Efficient pulse cleaning for extended filter life
- The combination of Ultra-web® media with our triagonal filter shape results in longer filter life, cleaner air, and greater cost savings compared to other types of cartridge.



DIMENSIONS & SPECIFICATIONS

detailed technical specifications are available on [donaldson.com](https://www.donaldson.com)

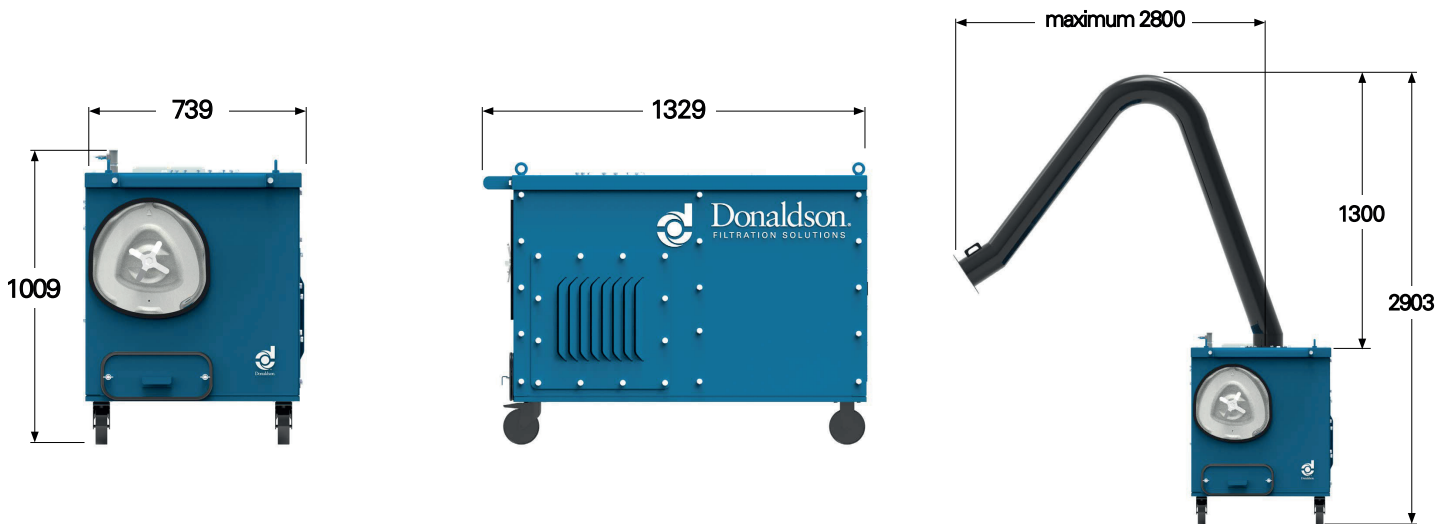
DFPRE 1 Mobile Fume Collector

Number of Filter Elements	1		
Number of Valves	1		
Fan type	2.2 kW	Single phase	50hz
Compressed air requirements	Nominal operating pressure range 6 bar (compressed air connection only required during offline cleaning)		
Cartridge Type	Filter assembly DFE 660mm Ultra-Web® Flame Retardant		
Optional Secondary Filter	HEPA filter class H13		
Outlet plate	Louvre or Flange (NW250 DIN24154/2) for ducting connection to avoid air recirculation		

Dimensions (mm) & Weight (kg)

Model	Width	Height	Depth	Weight*
DFPRE 1 without extraction arm	739	1009	1329	309
DFPRE 1 with 1 extraction arm		1009 / 2903		324
DFPRE 1 with 2 extraction arms		339		

* including filter cartridges, prior to first use



COMPREHENSIVE SOLUTIONS FOR MANAGING YOUR METALWORKING FUME CHALLENGES

Organizations worldwide rely on Donaldson to effectively tackle their dust, fume, and mist collection challenges as part of their overall EHS program. With over 50 years of industry expertise and over 250,000 installations worldwide, Donaldson's team of experts collaborates with you to understand your specific processes and requirements.

After conducting a comprehensive review of your operation, Donaldson can identify filtration solutions that best address your unique needs. We offer a wide selection from our extensive portfolio of industry-leading equipment and innovative filter media technologies.

**DISCOVER SUPERIOR FUME FILTRATION SOLUTIONS WITH DONALDSON.
VISIT [DONALDSON.COM](https://www.donaldson.com) TO LEARN MORE TODAY!**



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