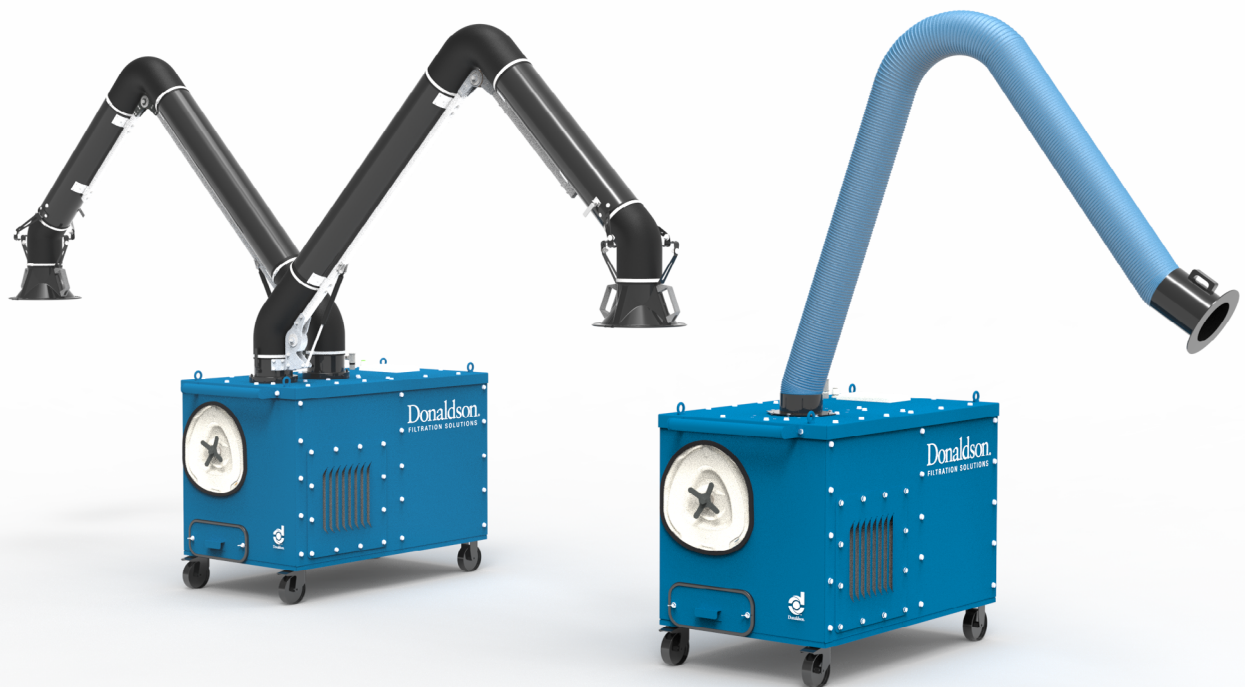




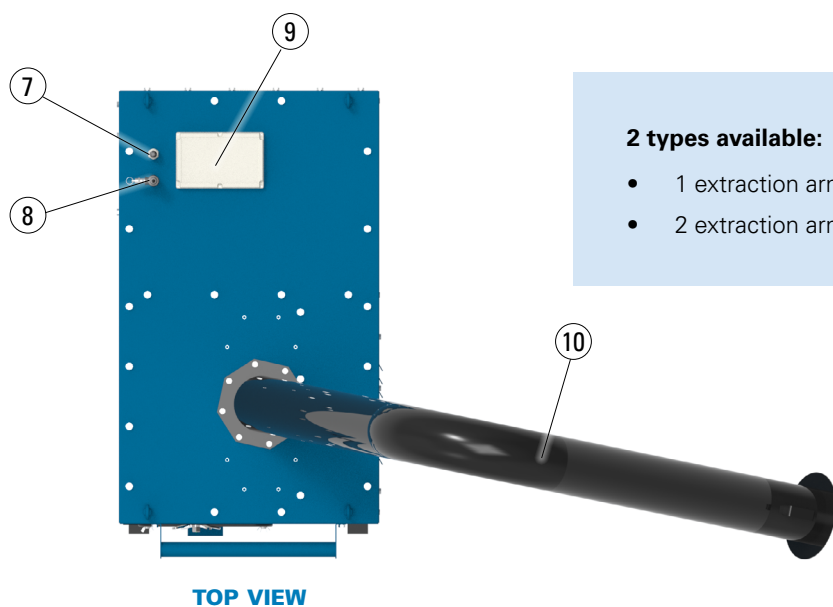
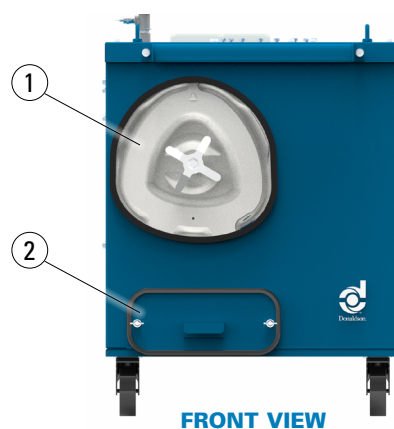
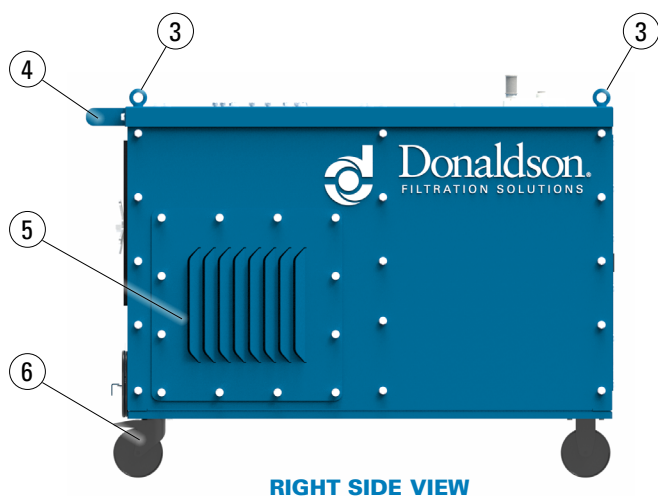
Donaldson
FILTRATION SOLUTIONS

TECHNICAL DATASHEET

DFPRE 1 Mobile Fume Collector

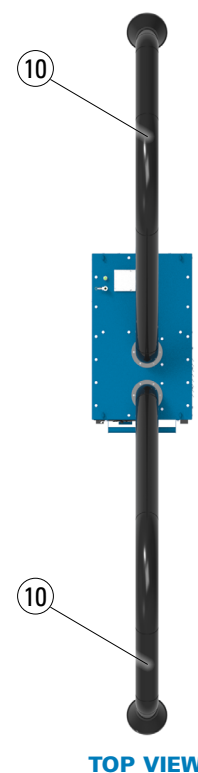


DESIGN SPECIFICATIONS



2 types available:

- 1 extraction arm
- 2 extraction arms



- | | |
|----------------------------------|-----------------------------|
| ① Access cover | ⑥ Castor wheel |
| ② Dust bin | ⑦ Compressed air connection |
| ③ Lifting eyebolt | ⑧ Power connection |
| ④ Handle | ⑨ Controller |
| ⑤ Outlet flange - can be rotated | ⑩ Extraction arm |

DESIGN LIMITS

Operating temperature: -10° to +60°C

Maximum operating pressure: -3 kPa (300 mm WG)*

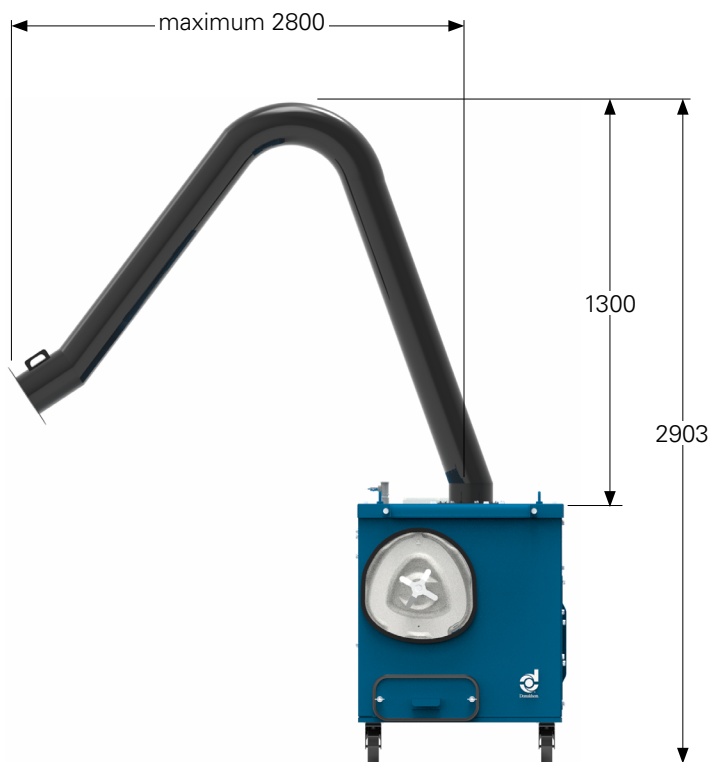
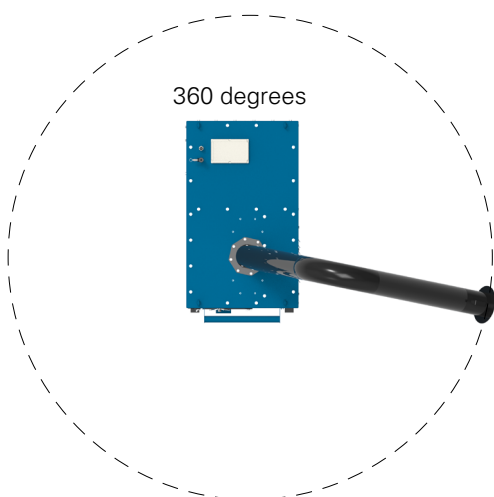
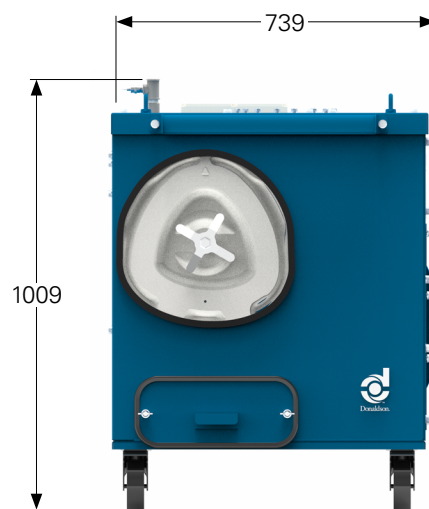
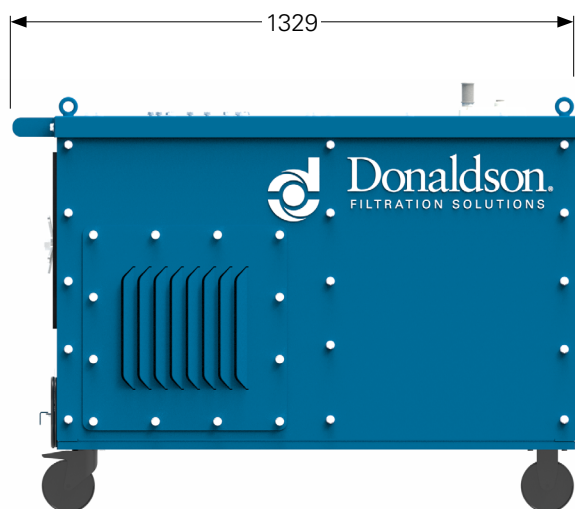
Finishing: Acrylated alkyd paint colour RAL 5019 (blue) - semi gloss

Extraction capacity: 1 extraction arm: 1250 m³/h

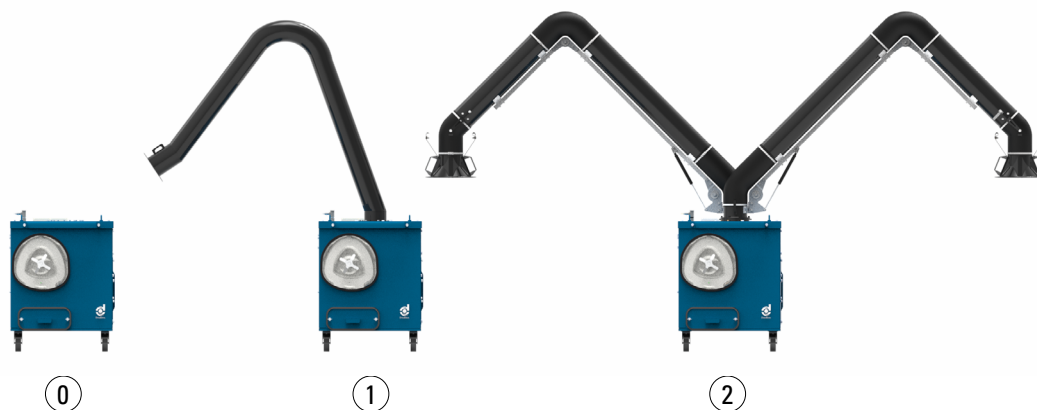
2 extraction arms: 1950 m³/h (975 m³/h per arm)

* for use in positive pressure contact engineering

DIMENSIONS (IN MM)



COLLECTOR WEIGHT

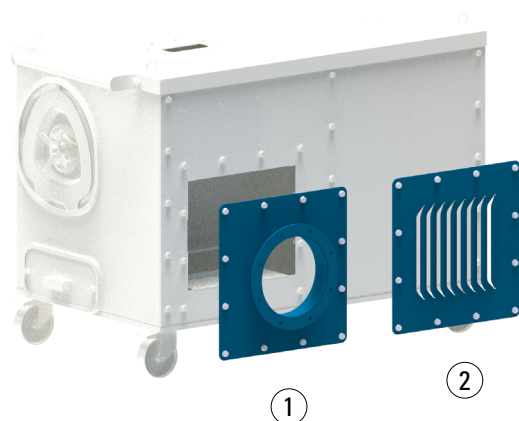


	Model	Weight (in kg)
①	DFPRE 1 without extraction arm (including filter cartridges, prior to first use)	309
①	DFPRE 1 with 1 extraction arm (including filter cartridges, prior to first use)	324
②	DFPRE 1 with 2 extraction arms (including filter cartridges, prior to first use)	339

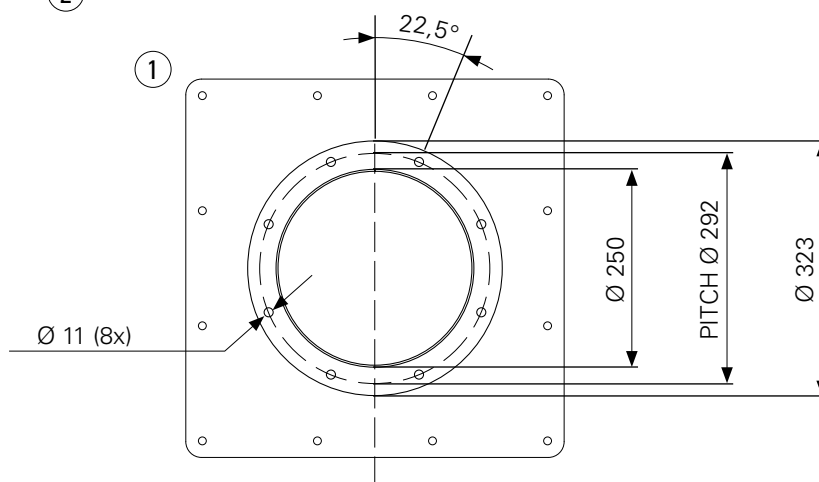
FAN

Fan type	Power (in kW)	Phase	Frequency (in Hz)
FG 351 P	2.2	single phase	50

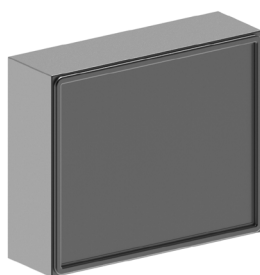
OUTLET OPTIONS



- ① **Outlet plate flange**
NW250 DIN24154/2
for ducting connection to avoid air recirculation
- ② **Outlet plate louvre**
can be mounted in 3 directions
for inside evacuation



AVAILABLE OPTIONS



Unit options

HEPA filter class H13

CARTRIDGE TYPE

Cartridge type

Filter assembly DFE 660mm Ultra-Web® Flame Retardant

ELECTRICAL REQUIREMENTS

Manual cleaning mechanism with push button

Control box protection class: IP65

Input voltage: 230 V / 50 Hz / single phase

NOISE EMISSION

Noise emission of the Donaldson DFPRE 1 with one extraction arm has been determined using measurements in compliance with EN 11201:2010.

Noise emission of the Donaldson DFPRE 1 with AC fan for one extraction arm, with insulation foam in fan chamber, measured acc. to EN-ISO 11201:2010, running at maximum fan speed **at workstation, inlet extraction arm:**

The A-weighted emission sound pressure level re. 20 µPa	< 70 dB
Associated total uncertainty K _{pA}	1.6 dB
The declaration is in conformance with ISO 4871.	

Noise emission of the Donaldson DFPRE 1 with HEPA with AC fan for one extraction arm, with insulation foam in fan chamber, measured acc. to EN-ISO 11201:2010, running at maximum fan speed **at specified position, outlet machine:**

The A-weighted emission sound pressure level re. 20 µPa	73.1 dB
Associated total uncertainty K _{pA}	1.6 dB
The declaration is in conformance with ISO 4871.	

MANIFOLD DESIGN DETAILS

Design temperature: -20° to +70°C

Manifold volume: 2.78 litres

Product of pressure and capacity: 19.25 bar litres

Material used for manifold construction: Structural hollow section according to EN13445

COMPRESSED AIR REQUIREMENTS

Nominal operating pressure range 6 bar

Consumption per cleaning sequence*: 75L/min

(each cleaning sequence consists of 5 pulses every 12s with 100ms valve opening time)

*compressed air connection only required during offline cleaning

[illegible]

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