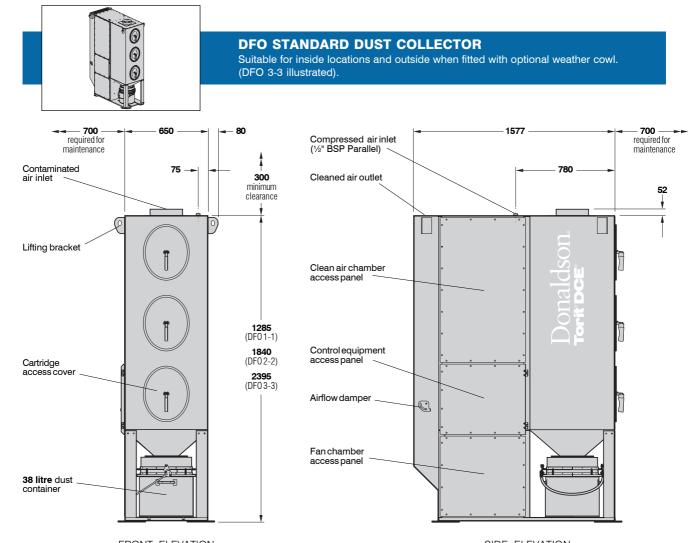
# Downflo® Oval Dust Collectors

Series DFO 1-1, 2-2 and 3-3



FRONT ELEVATION

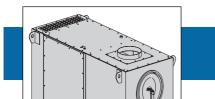
SIDE ELEVATION

Туре	Filtration area (Ultra-Web®)	Number of cartridges	Fan	Motor rating	Net weight (approx.)
DFO 1-1	17.7 m²	1	K3 K5	1.5 kW 2.2 kW	355 kg 364 kg
DFO 2-2	35.4 m²	2	K3 K5 K7	1.5 kW 2.2 kW 3.0 kW	445 kg 454 kg 450 kg
DFO 3-3	53.1 m²	3	K5 K7 G8	2.2 kW 3.0 kW 5.5 kW	580 kg 576 kg 601 kg

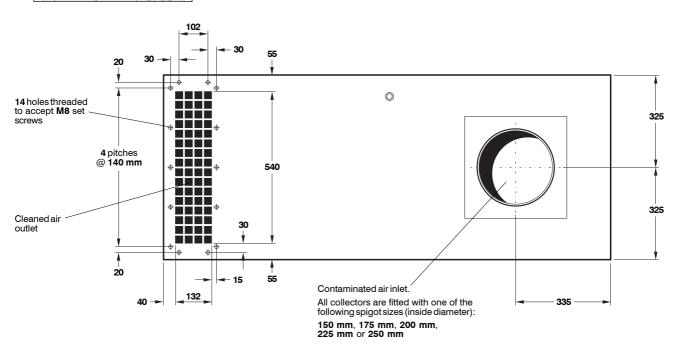


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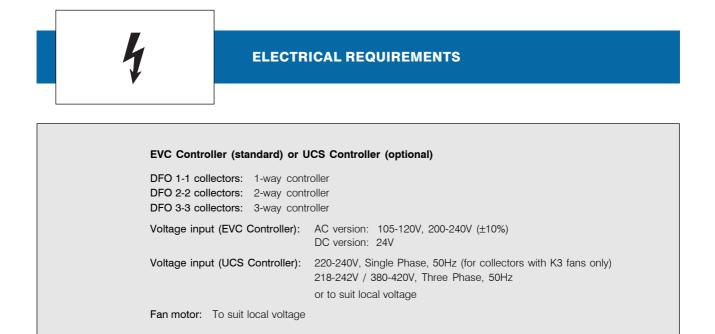








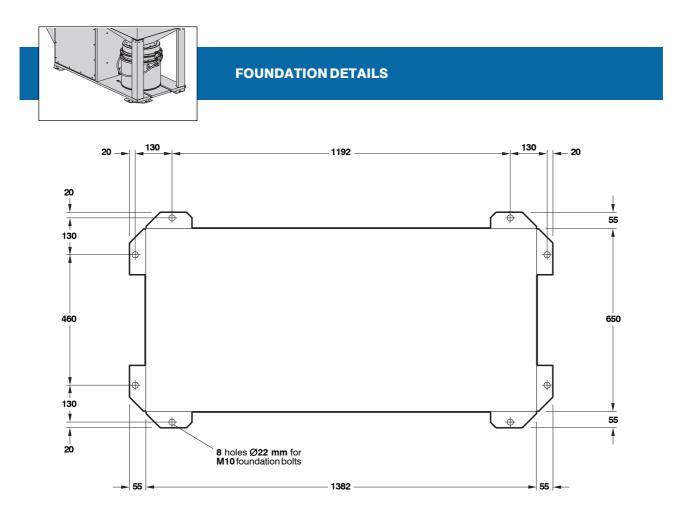
PLAN ELEVATION



# **Data Sheet**

# Downflo® Oval Dust Collectors - Series DFO 1-1, 2-2 and 3-3





PLAN ELEVATION

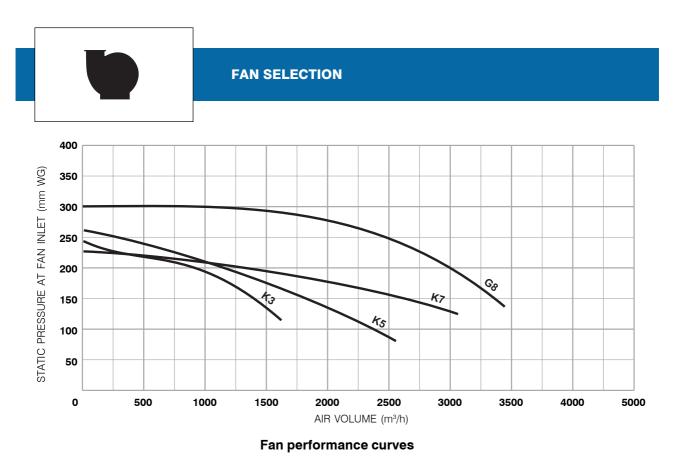


#### COMPRESSED AIR REQUIREMENTS

Туре		Working compressed air pressure <sup>a</sup>		Atmospheric air volume – F.A.D. <sup>b</sup> at 12 sec. intervals °	
DFO 1-1	4.2 bar	60 psig	3.6 m³/h	2.1 cfm	100 millisec.
DFO 2-2	4.2 bar	60 psig	5.5 m³/h	3.2 cfm	100 millisec.
DFO 3-3	4.2 bar	60 psig	6.8 m³/h	4.0 cfm	100 millisec.

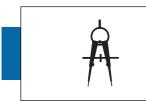
Recommended initial settings; these may be varied with experience





#### To select the most suitable fan for a given application:

- 1 Determine the air volume, in m<sup>3</sup>/h, needed to entrain the dust.
- 2 Estimate pressure drop through connected system i.e. between point of entrainment and collector inlet.
- **3** Assess pressure drop over dust collector, prior to replacing filter cartridges, usually 100 mm WG.
- 4 The sum of **2** and **3** = static pressure at inlet.
- 5 Consult graph for fan performance available.



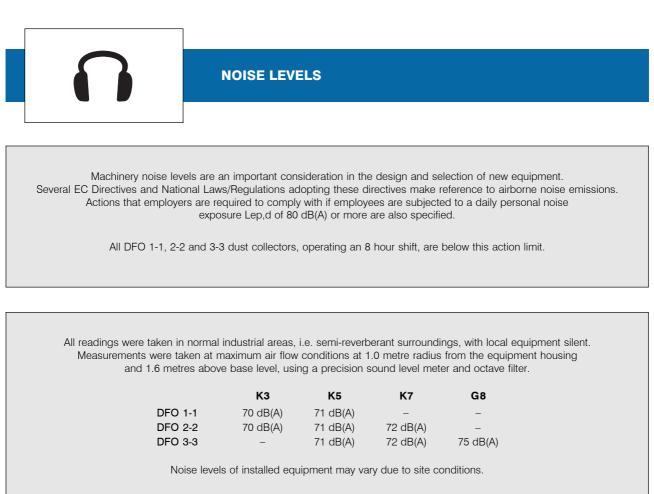
#### **DESIGN LIMITS (standard equipment)**

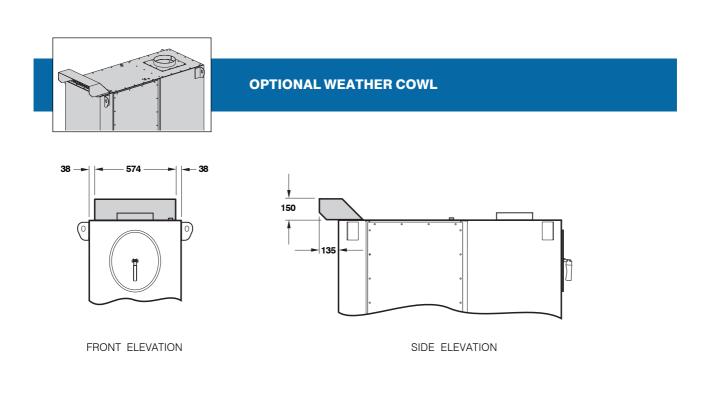
Temperature range:-10° to +60°CPressure limits:as fan performance curves from shut-off to operating pressureDimension tolerances:±3 mm on main dimensions;±2 mm on detail dimensionsPaint finish:Quick air drying RAL 5019 (blue), spatter finish, semi-gloss

# Data Sheet

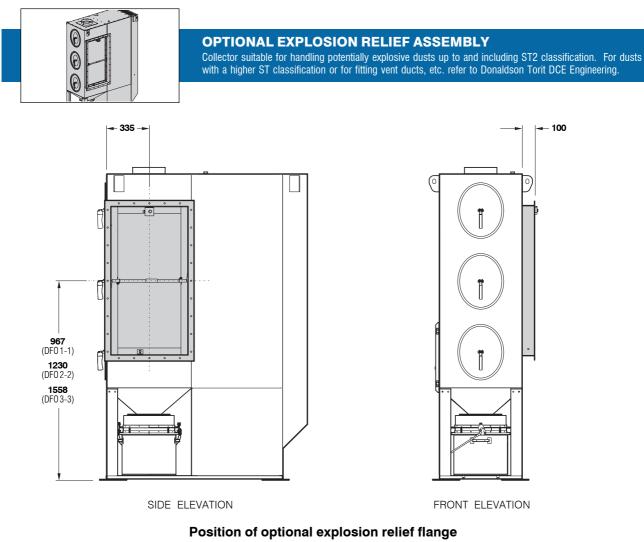
# Downflo® Oval Dust Collectors - Series DFO 1-1, 2-2 and 3-3





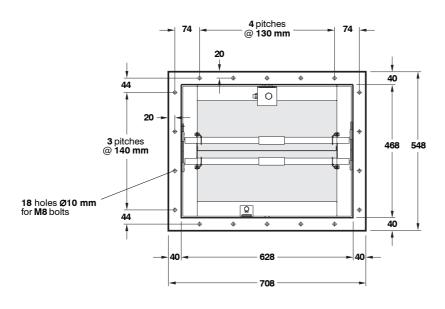






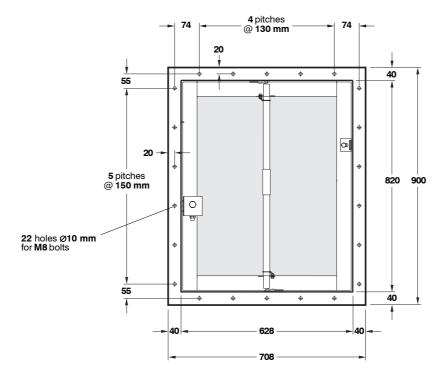
(DFO 3-3 illustrated)

If a vent duct is not connected to the explosion relief flange, then a minimum clearance of 500 mm should be made to the side of the collector to ensure efficient operation of the explosion venting process. Consideration should be given to the local surrounding area in regards to the pressure and flame effects.

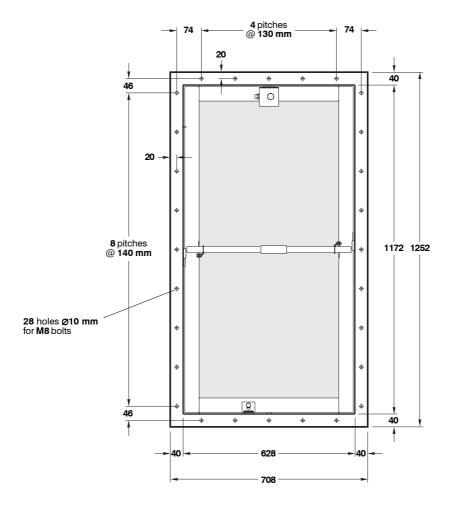


Optional explosion relief flange mounting details for DFO 1-1



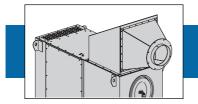


Optional explosion relief flange mounting details for DFO 2-2

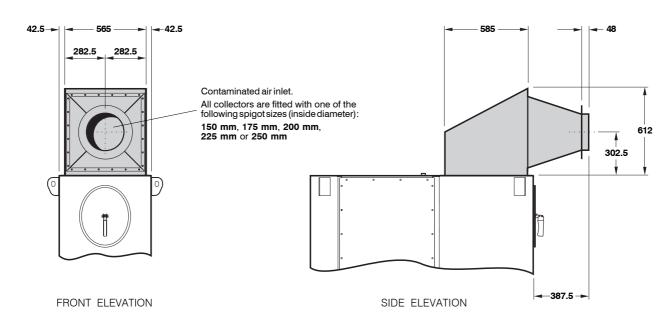


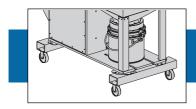
Optional explosion relief flange mounting details for DFO 3-3



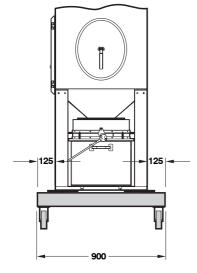


## **OPTIONAL ABRASION RESISTANT INLET**

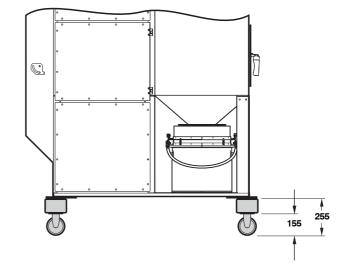




#### **OPTIONAL CASTOR ASSEMBLY** Option only available on DFO 1-1 and DFO 2-2 collectors and not available on collectors with explosion relief.



FRONT ELEVATION

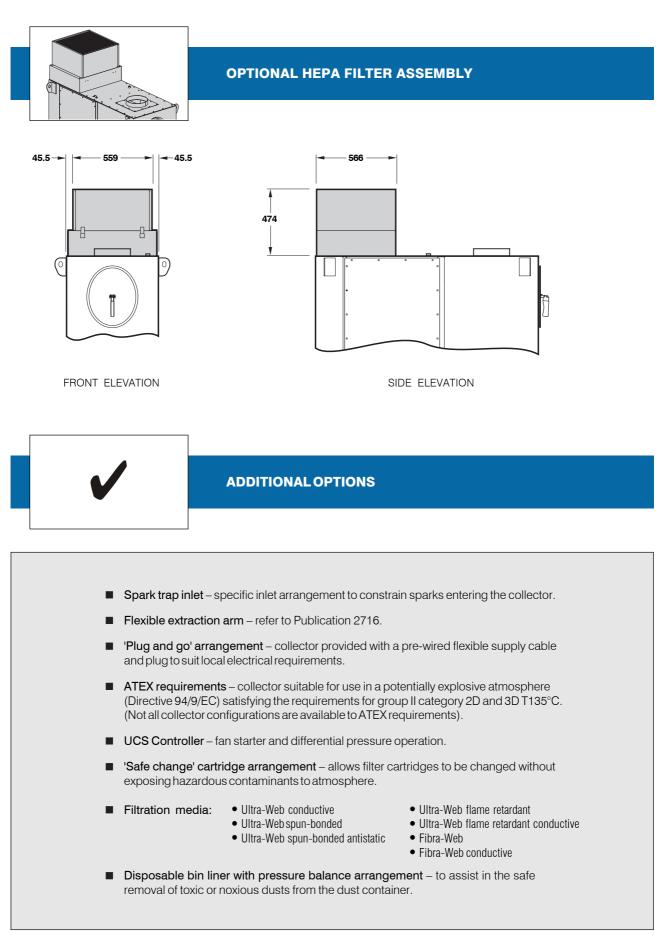


SIDE ELEVATION

# Data Sheet

## Downflo® Oval Dust Collectors - Series DFO 1-1, 2-2 and 3-3











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