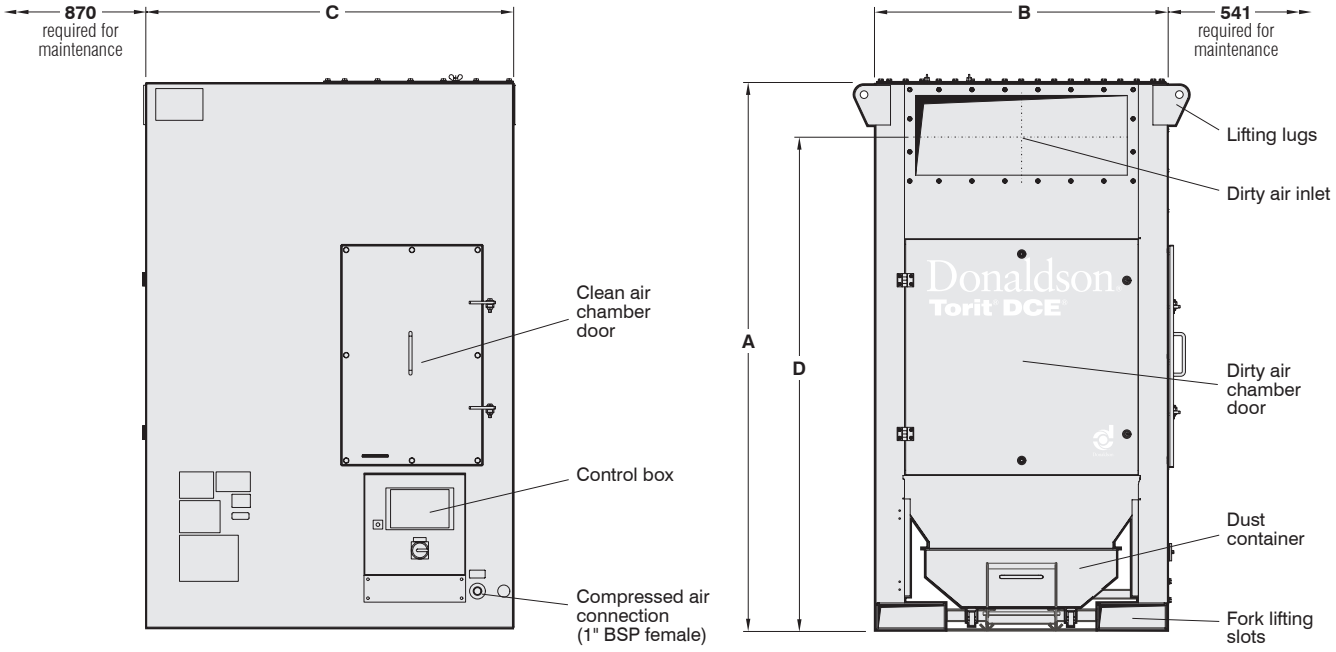
DFPRO Dust Collectors

Series DFPRO 3-4 and DFPRO-R 3-4



SIDE VIEW FRONT VIEW

DFPRO STANDARD DUST COLLECTOR

DIMENSIONS (in mm)

	Number of filter elements	Filtration area Ultra Web®	A (Height)	B (Width)	C (Depth)	D (Height to inlet)
DFPRO 3 Standard	3	53.0 m²	2075	1104	1400	1871
DFPRO 4 Standard	4	70.6 m²	2075	1104	1400	1871
DFPRO 3 Sparktrap	3	53.0 m²	2075	1300	1400	250
DFPRO 4 Sparktrap	4	70.6 m²	2075	1400	1400	250

DESIGN SPECIFICATIONS (standard equipment)

Operating temperature: –10° to +65°C

Maximum operating pressure range: ±5 kPa (500 mm WG)

Wind load rating: 160 km/h

Finishing: Acrylated alkyd paint colour RAL 5019 (blue) – semi gloss, textured paint

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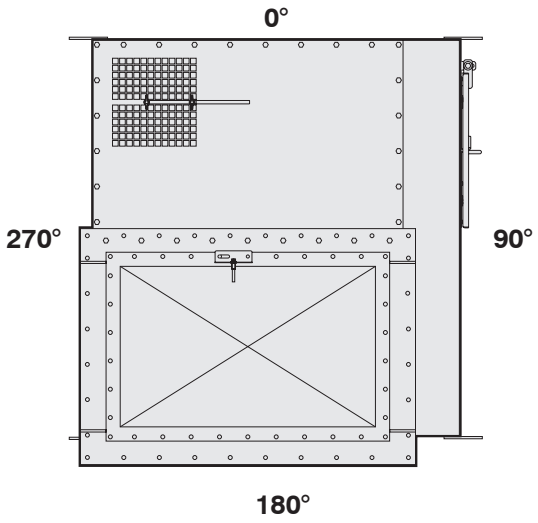
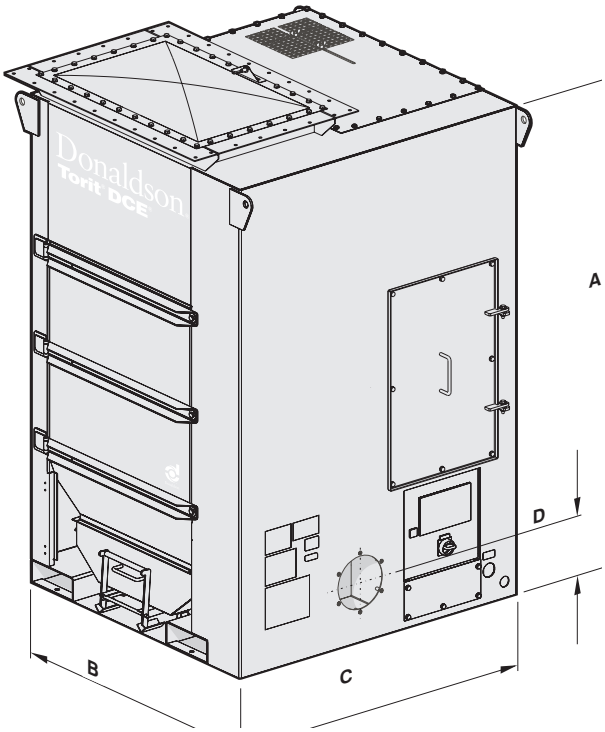
Donaldson®



TOP VIEW



DFPRO REINFORCED SPARKTRAP DUST COLLECTOR

DIMENSIONS (in mm)

	Number of filter elements	Filtration area Ultra Web®	A (Height)	B (Width)	C (Depth)	D (Height to inlet)
DFPRO 3 Reinforced	3	53.0 m²	2170	1104	1462	1871
DFPRO 4 Reinforced	4	70.6 m²	2170	1104	1462	1871
DFPRO 3 Reinforced Sparktrap	3	53.0 m²	2170	1300	1400	250
DFPRO 4 Reinforced Sparktrap	4	70.6 m²	2170	1400	1400	250

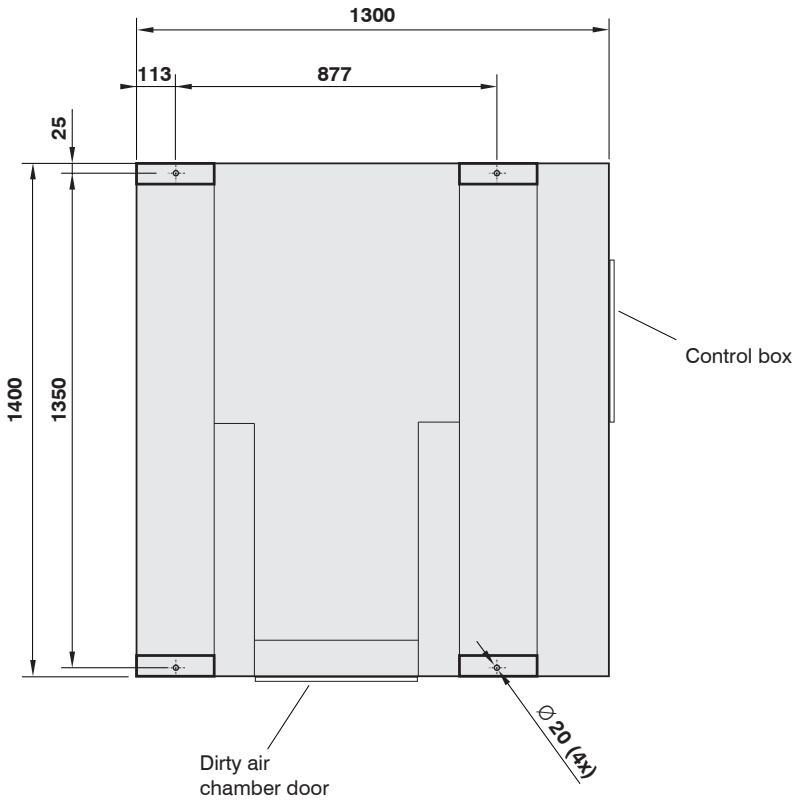
COLLECTOR WEIGHTS

	DFPRO 3	DFPRO 4
Standard	640 kg	650 kg
Reinforced	690 kg	700 kg
Sparktrap	720 kg	750 kg
Reinforced Sparktrap	770 kg	800 kg

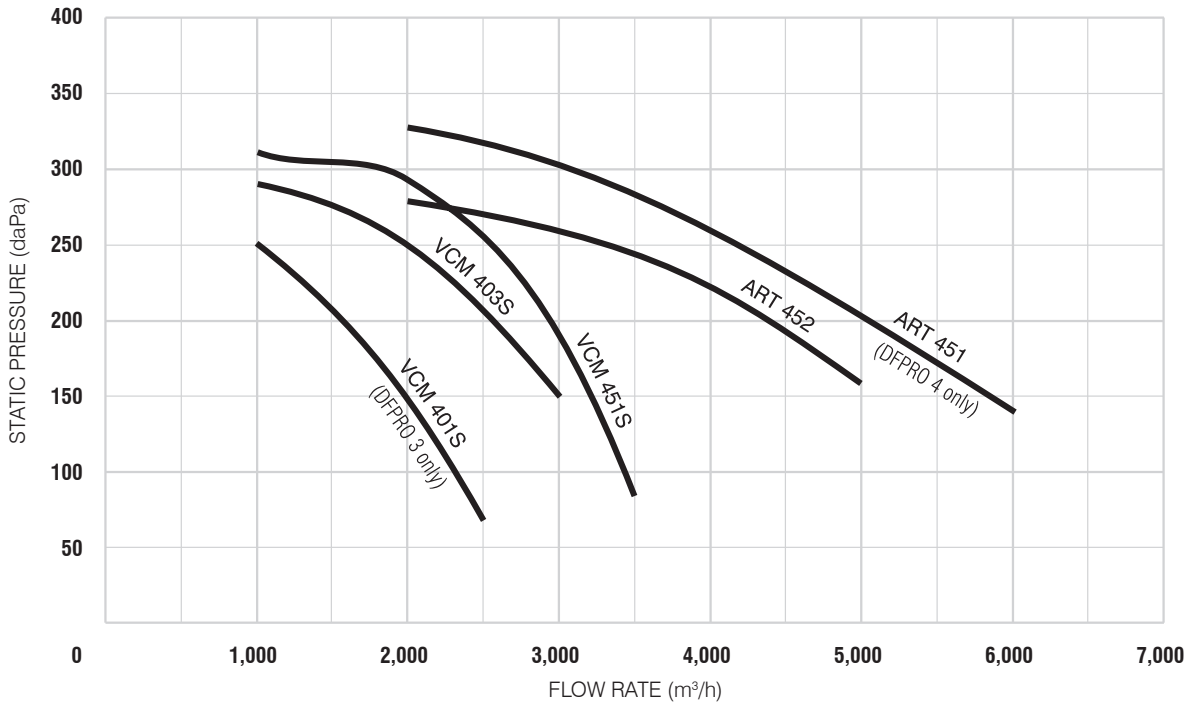
- Weights include filter cartridges and are for collectors prior to first use, i.e. with no dust collected
- Excludes fan set weight
- Includes bursting panel on Reinforced version

FAN SET WEIGHTS

VCM 401S (1.5 kW)	36 kg
VCM 403S (2.2 kW)	41 kg
VCM 451S (3 kW)	70 kg
ART 452 (4 kW)	98 kg
ART 451 (5.5 kW)	110 kg



BOTTOM VIEW - FOOT PRINT



FAN PERFORMANCE CURVES

FAN SELECTION

These curves indicate static pressure available at fan inlet for a given application, when fitted into a collector.

To select the most suitable fan for a given application:

1. Determine the air volume, in m^3/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 daPa.
4. The sum of **2** and **3** = static pressure at inlet.
5. Consult graph for fan performance available.

NOISE LEVEL*

Pulse noise*

LpAeq: ≤ 75 dB (A-weighted equivalent continuous sound pressure level)

ΔL_i: ≤ 10 dB (impulsive noise content)

* Measurement according to DIN 45635/1 at 1m distance, with 6 bar compressed air pressure, pulse interval of 15s, semi-free field conditions and usual tolerance ±2 dB.

DIRTY AIR INLET DETAILS

Standard and Reinforced	DIN 24193/2 (mm) 800 x 300	**Sparktrap and Reinforced Sparktrap**	Pipe (nominal)	NW 140 NW 160 NW 180 NW 200 NW 224	

ELECTRICAL SPECIFICATIONS

Controls

Full automatic cleaning mechanism: TCB

Pulse time: 100 ms

Interval time: 10 s

Voltage input: 400V AC; 3 ph; 50 Hz;

Control box protection class: IP65

Solenoid voltage: 24V DC

COMPRESSED AIR REQUIREMENTS

Max. 7 bar

Pressure range 6-7 bar

Clean air (max. particle size 50 μm)

Free of condensate at working temperature

Max. oil content: 3 mg/m^3

Approx. compr; air usage*:

±45 Nlitres per pulse
(±16.2 Nm^3/h for 10 s pulse interval at 7 bar)

* The indicated value is the consumption per valve

OPTIONS

- Outside installation
- Full range of filter cartridges
- Equipment suitable for 60Hz power supply
- Pulse noise attenuation down to LpAeq ≤ 70 dB
- Door for dust disposal
- Earthing connection
- Compressed air – oil/water separator and accessories
- Inlet adaptor pieces (front inlet and Sparktrap)
- Blow off channels (vent pipe) on Reinforced version for indoor installations (1, 2 or 3m lengths)
- IAF Feeder for the absorption of oily substances

Equipment suitable for use in a potentially explosive atmosphere (Directive 94/9/EC) satisfying the requirements for group II category 2D and 3D T125°C is available

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