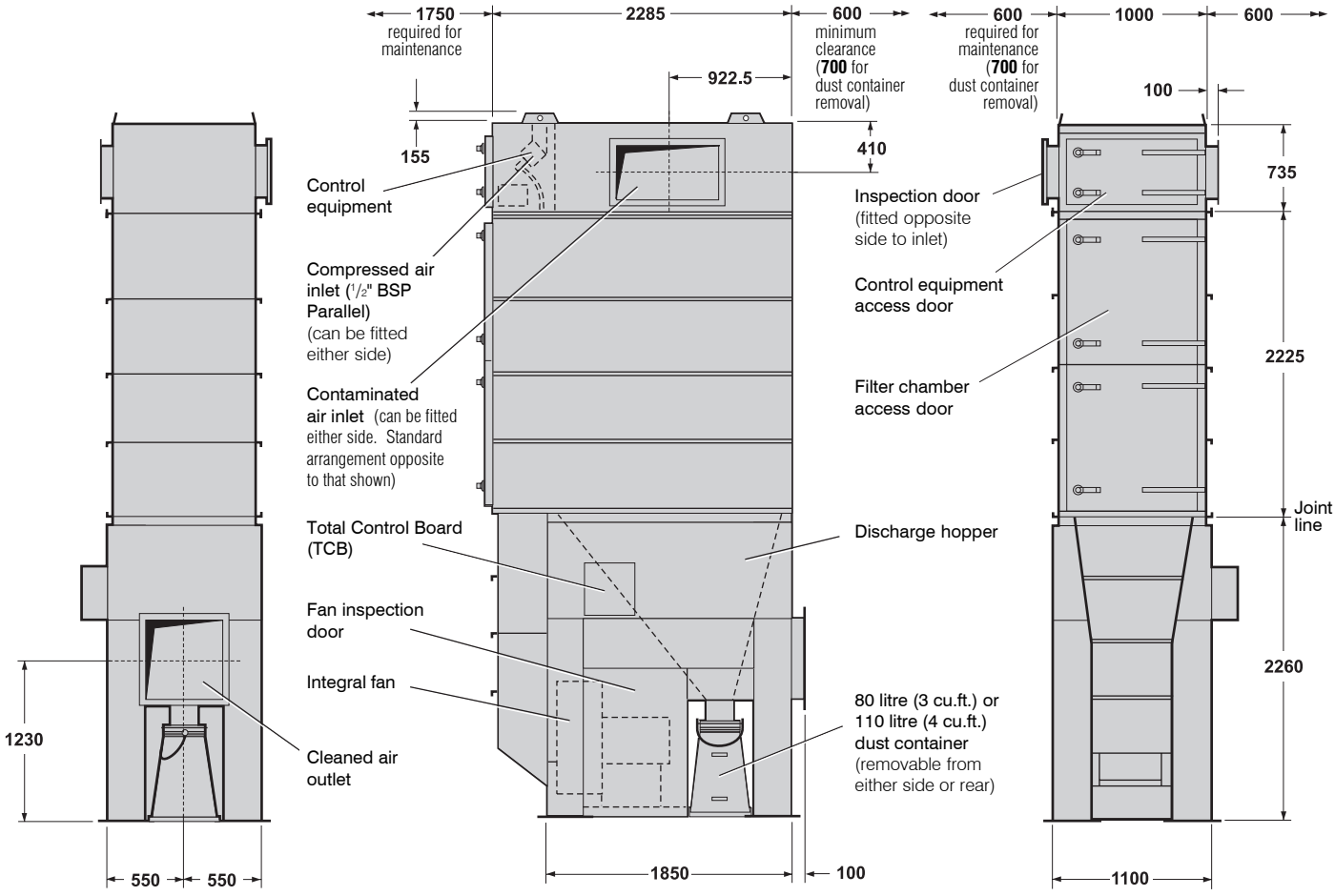
Dalamatic Concept Dust Collectors

Series D60



Dalamatic Concept D60 collector with dust container configuration

SPECIFICATION

D60 type	No. of banks (X)	No. of tiers (Y)	No. of cells (X × Y)	Filtration area	Fan type	Motor rating	Approx. net weight	Air volume – F.A.D.* at 12 sec. intervals	
Dust container or **rotary valve**	1	4	4	60 m²	K11 K15 CSR15	7.5 kW 11.0 kW 15.0 kW	2200 kg	13.7 m³/h	8.1 cfm

* Pulse duration: 60 millisec. Recommended atmospheric air volume of clean, dry compressed air at 5.2 bar (75 psig) normal operating pressure.

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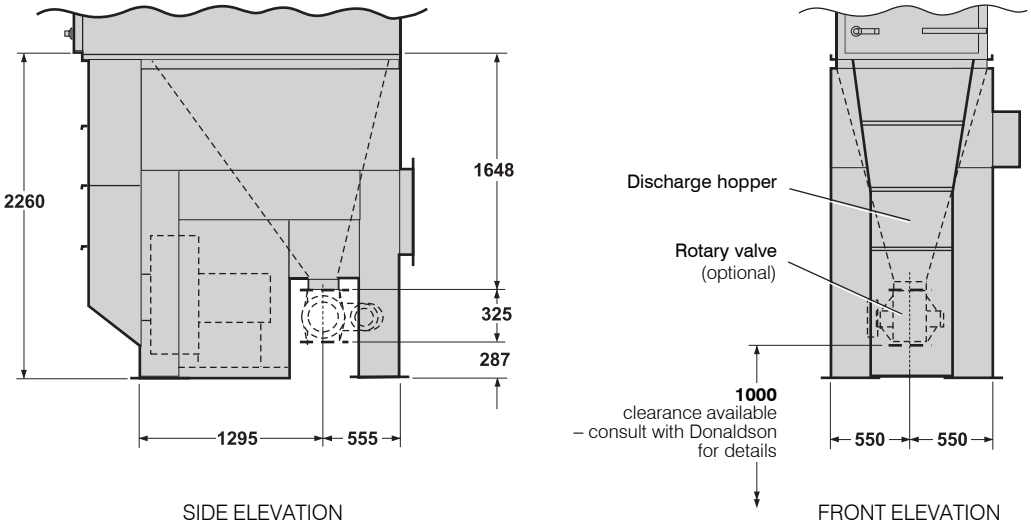
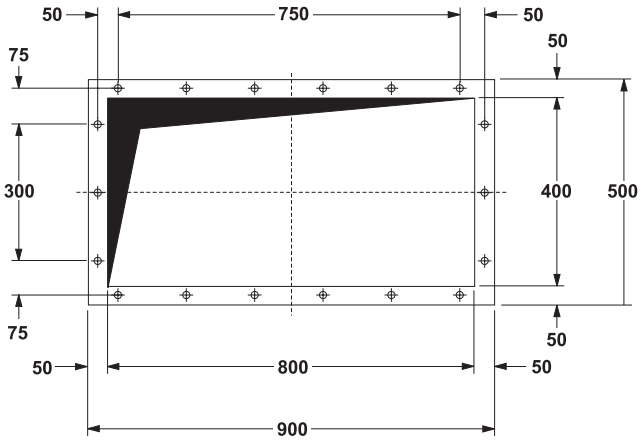
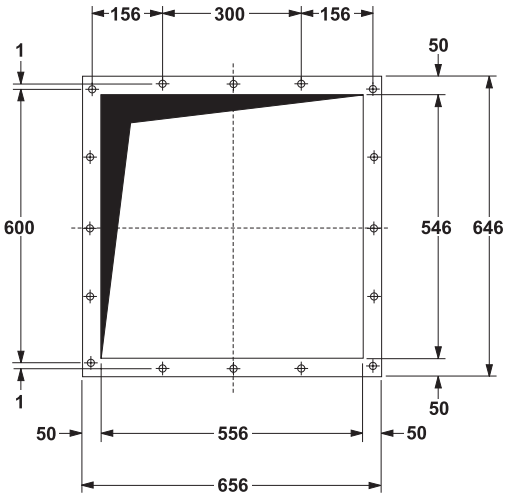


Dalamatic Concept D60 collector with rotary valve configuration



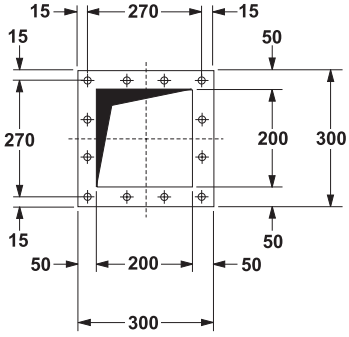
Contaminated air inlet details

All holes Ø12mm for M10 bolts. Pitch centres: 150mm



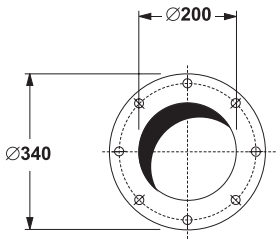
Cleaned air outlet details (with deflector removed)

All holes Ø12mm for M10 bolts. Pitch centres: 150mm



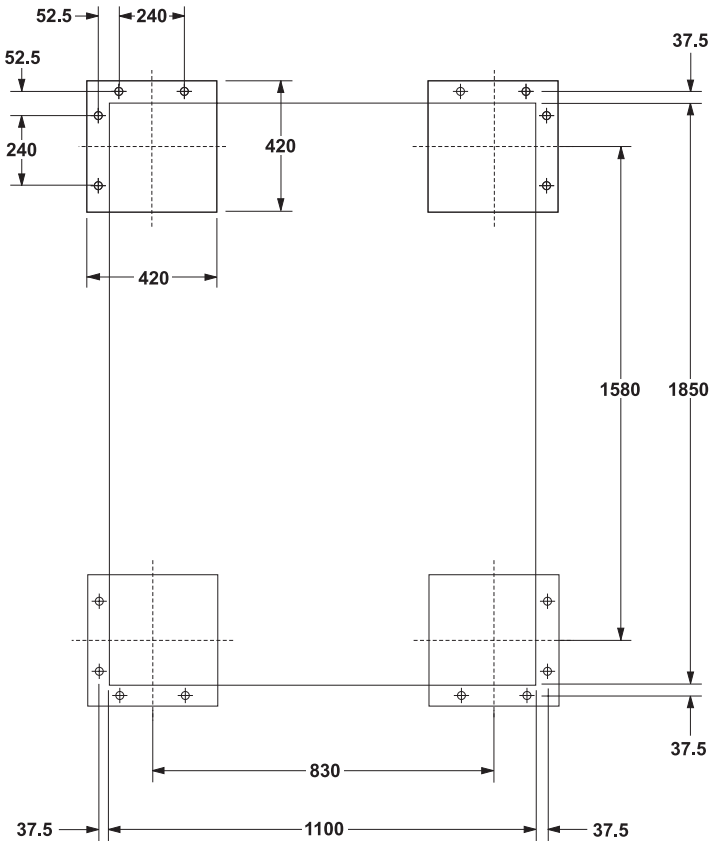
Rotary valve hopper outlet flange details

All holes Ø12mm for M10 bolts. Pitch centres: 90mm



Rotary valve outlet flange details (for rotary valve supplied by Donaldson)

All holes Ø14mm for M12 bolts
equally spaced on 280mm p.c.d.



FRONT OF COLLECTOR

Foundation details

All holes Ø28mm for M16 foundation bolts.

DESIGN LIMITS (standard equipment)

Temperature range:

–10° to +60°C (Std.) or –10° to +100°C* (For temperatures above 100°C refer to Donaldson).

Pressure limits:

Collector with fan: as fan performance curves from shut-off to operating pressure.

Collector without fan: –500mm W.G. or –1140mm W.G. (For positive pressures refer to Donaldson).

Dimension tolerances:

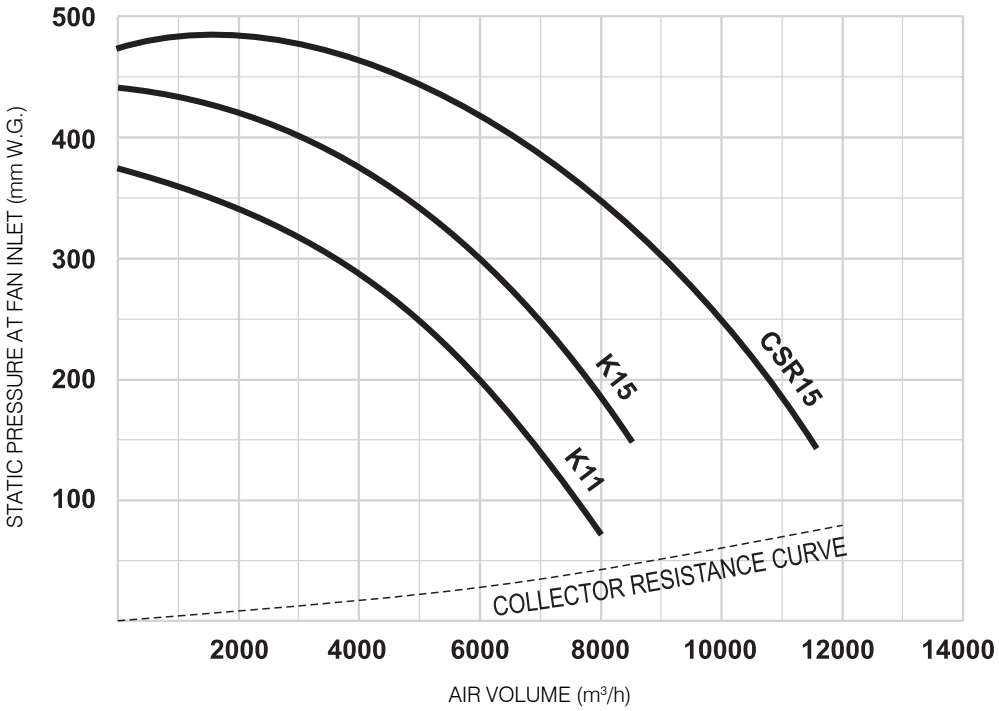
±5mm on main dimensions. ±2mm on detail dimensions.

*For temperatures above 60°C the enclosed base cannot be used – an in-line attenuator may be required.

ELECTRICAL SPECIFICATIONS

Controls

Full automatic cleaning mechanism: Total Control Board
Pulse time: 60 ms
Interval time: 12 sec.
Voltage input: 400V AC; 3 ph; 50 Hz
Protection class: IP65
Solenoid voltage: 24V DC



Collector performance curves

FAN SELECTION

These curves indicate static pressure available at fan inlet for a given volume, when fitted inside a D60 collector.

To select the most suitable fan for a given application:

1. Determine the air volume, in m³/h, needed to entrain the dust.
2. Read off the collector resistance, in mm W.G., at air volume required.
3. Assess pressure drop across filter bags prior to cleaning, usually 50 to 100mm W.G.
4. Estimate pressure drop through connected system – i.e. between point of entrainment and collector inlet.
5. The sum of **2**, **3** and **4** = W.G. required.
6. Consult graph for fan performances available.

NOISE LEVELS

Machinery noise levels are an important consideration in the design and selection of new equipment. Several EC Directives and National Laws/Regulations adopting these directives make reference to airborne noise emissions. Actions that employers are required to comply with if employees are subjected to a daily personal noise exposure Lep,d of 85 dB(A) or more are also specified.

All Dalamatic Concept collectors are below this action limit.

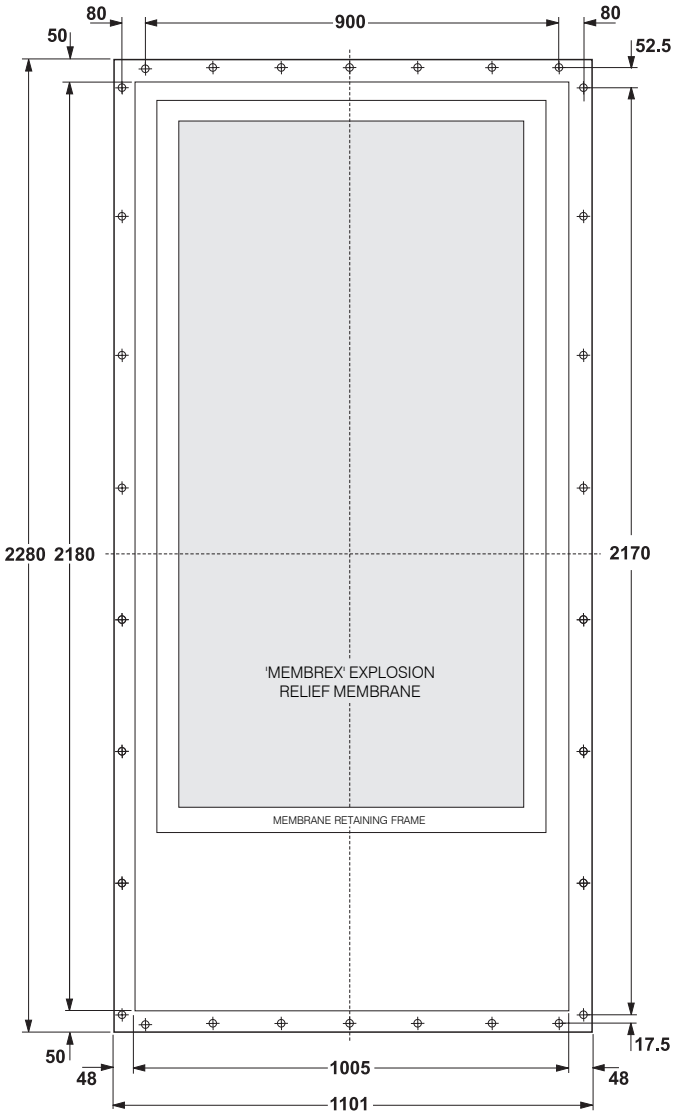
WEIGHTED SOUND PRESSURE LEVELS

All readings were taken in normal industrial areas, i.e. semi-reverberant surroundings, with local equipment silent. Measurements were taken at maximum air flow conditions at 1.0 metre radius from the equipment housing and 1.6 metres above base level, using a precision sound level meter and octave filter.

K11	K15	CSR15
78 dB(A)*	79 dB(A)	75 dB(A)*

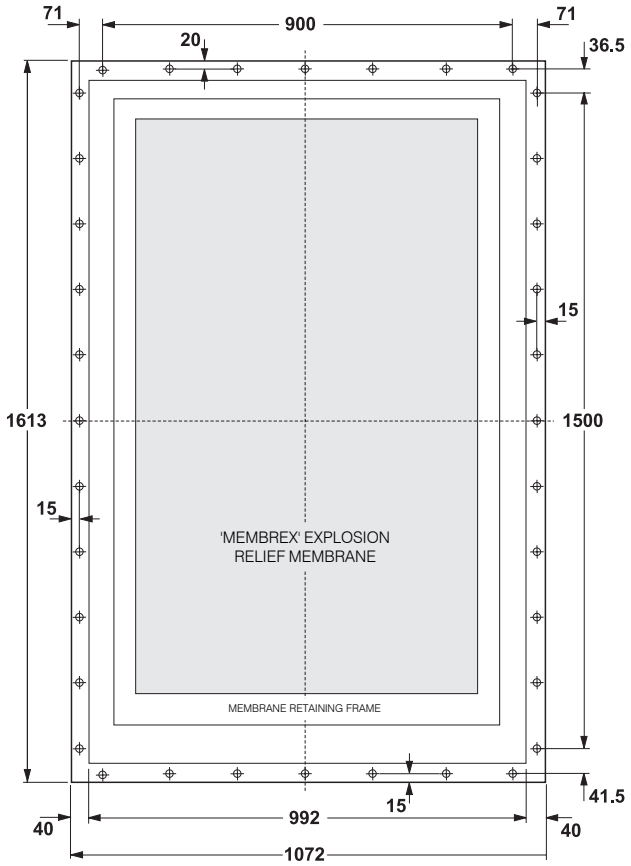
Noise levels of installed equipment may vary due to site conditions

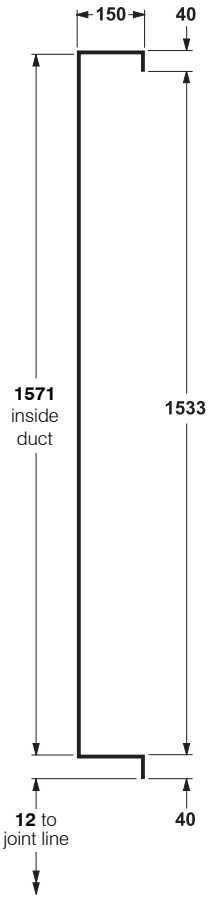
*Estimated values



Top explosion relief flange mounting details

All holes 12 × 20mm slots for M10 bolts. Pitch centres: 150mm horizontally; 310mm vertically.
Mounting flange is flush with top of collector.
NOTE: The membrane retaining frame projects 80mm beyond top of collector.
Weather protection is available for those collectors fitted with top explosion relief.





FLANGE SECTION

Rear explosion relief flange mounting details

Bottom and vertical holes ∅10mm; top holes 10 × 20mm slots. All for M8 bolts. Pitch centres 150mm.
NOTE: Mounting flange projects 100mm beyond rear of collector.

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