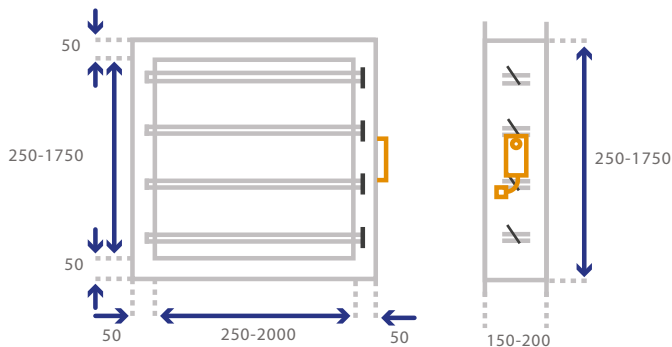


VOLUME CONTROL DAMPERS

Information & Spec Sheet



V1



DESIGN

Volume Control Dampers (VCD) are designed to control airflows through building and generator housing. They are designed to balance a system and then locked into position. They also offer a straighter airflow as the blades are opposed. They can protect Containers from Ingress of water and Dust and assist with protection from the Cold.

The robust Frames of 2mm means they are suitable for heavy Duty assemblies as well as lighter HVAC installations. Our Damper designs have been tried and tested for over 35 years.



All Engineered Air Treatment Damper designs have been tried and tested for over 35 years.

FEATURES

- Manufactured from tried and test designs.
- Flexible Flange arrangements and depth requirements
- Dampers Mechanism is easily accessible for Maintenance
- Dampers in Dry environment have very little Maintenance requirements
- 2 Year warranty from date of despatch, actuators have 5 years warranty.
- Flexible designed to suit customers requirements- We do not work in a purely modular system, if you want 1000mm wide x 2500mm high this can be in 1 section.
- Excellent Customer Service from Engineers that have manufactured the dampers they sell. Our Sales Staff have over 30 years' experience, we could if they wanted to build your damper.

All materials used are class 'A' Fully traceable as part of ISO 9001



STANDARD LAYOUT

MATERIALS	Pre-Galvanised M.S. to BS EN 10346 2015 DX51D
CASING	2mm Fully Welded and Cleaned for Smoother finish- Coated in Silver enamel QD8 (C3 Class top coat)
BLADES	0.8mm 'Z' Type Double Skinned, parallel opening standard.
SPINDLES	BZP
FLANGES	Self Flanged and un-drilled as standard. RS angle flanges cleaned and primed painted, can be fitted.
HARDWARE	BZP
BUSHES	Nylon Bushes
MESH	½" x 16g Mesh Fingerguard ideal for keeping fingers and pests out.
FINISH	Coated in Silver enamel QD8 (C3 Class top coat)

OPTIONS FOR MATERIALS

MATERIALS	Zintec, Aluminium, marine grade Aluminium, 304, 316 Stainless steel
CASING	2mm, 3mm to 6mm
BLADES	0.7 to 1.5mm 'Z' Type Double Skinned, parallel opening standard.
SPINDLES	304 or 316 Stainless steel
HARDWARE	A2 and A4
BUSHES	Nylon Bushes, phosphor Bronze, SFL Bearings, St/st Teflon
MESH	1" Sq, 3mm and we can fit security bars
INSULATED	

ADDITIONAL DAMPER INFORMATION

Engineered Air Treatment Ltd. Pride themselves on solving Damper issues and due to the many options available we would recommend contacting our sales team who would also assist where possible.



We have experience of supplying dampers from -20°C to +100°C



Approx 25Kg's per m². We can supply lifting eyes if required.



Please see graph over-leaf

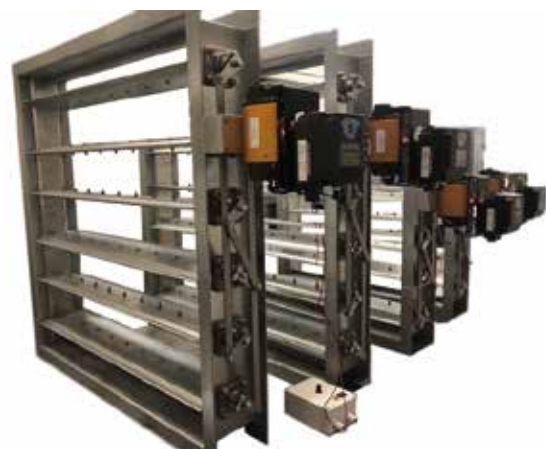


Minimum 2350mm, maximum 2400mm Module size, For bigger sizes speak to sales staff.

OPTIONAL EXTRA

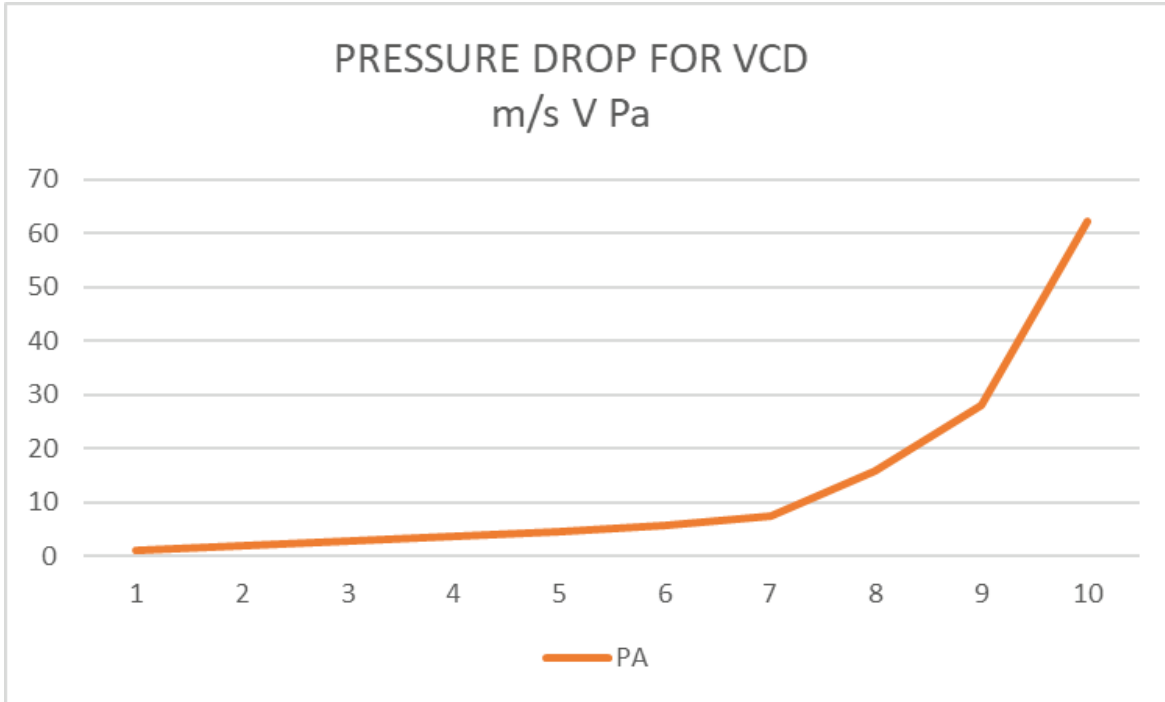
- External Micro switches
- Viewing windows
- Lifting Eyes.
- Relief Flaps Situated on the Blades to release internal pressure.
- Mesh Bird Guard and Insect Mesh
- Covers over the Actuators and Mechanisms
- External visual indicators
- Powdercoated Finish
- Modulating with Spring return Options on the Actuators
- Actuators can be situated in the Airstream if needed
- Flanges can be drilled to Suit and be 40mm to 100mm
- Fan Plenum boxes can also be supplied to the rear of the Dampers

EXAMPLE DAMPER



PRESSURE DROP

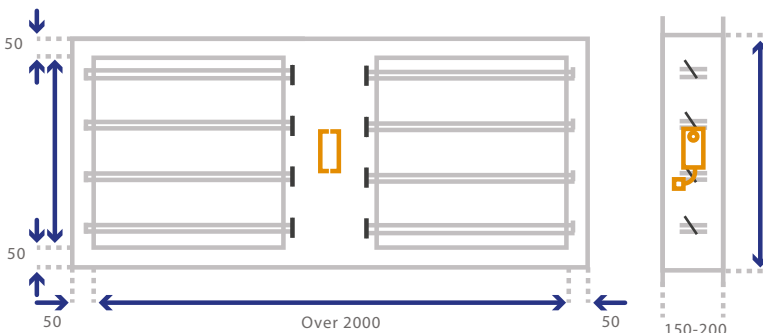
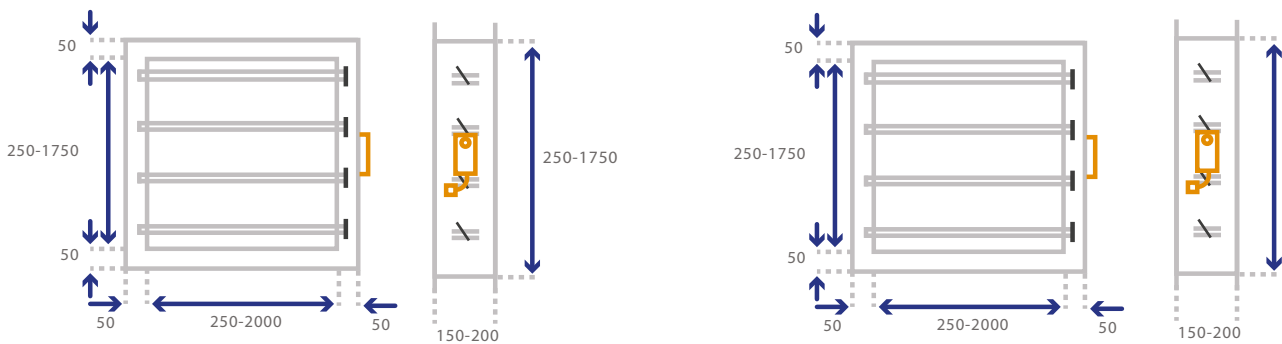
Chart based on Standard Blades and at Air at 15 Deg C



SIZING DAMPERS

Engineered Air Treatment Ltd would size a Damper at 4 to 5 m/s depending on requirement, whilst the damper is robust enough to withstand higher airflow, any thing over 6 m/s can have turbulent air issue which can lead to slight noise creation over the blades (whistling effect).

Engineered Air Treatment Ltd. Pride themselves on solving Damper issues and due to the many options available we would recommend contacting our sales team who would also assist where possible.



DAMPER LAYOUT SAMPLES
FREQUENTLY ASKED QUESTIONS:

Q: CAN WE HAVE DIFFERENT SIZE FLANGES?
A: YES YOU CAN.

Q: CAN YOU PRE-DRILL THE FLANGES?
A: YES, WE CAN, WE CAN EVEN OFFER A DRILLING DETAIL.

Q: CAN WE MOVE THE CENTRE MULLION THAT COVERS THE AN AIRWAY?
A: YES, WE CAN.

Q: CAN WE STIPULATE MOTOR LOCATION?
A: YES, WE CAN AS LONG AS IT'S ON THE SIDE, WE HAVE EVEN FITTED ON THE TOP.

Q: WHAT IS THE LARGEST DAMPER A SINGLE ACTUATOR CAN WORK?
A: 3 SQ METERE, 25 SQ TORGUE



Engineered Air Treatment are proud of our quality record which allows us to have complete confidence in the products we offer. We adhere to our ISO9001 accreditation and install these values into our valuable employees. This confidence allows us to offer a 2 year warranty with all our products.

We also have complete traceability and files over 20 years old to look back on. We are a can do company.

CE Marking for Standard Gas Retention Dampers

The CE marking shall be the only marking which attests the conformity of the product with the applicable requirements of the relevant Community harmonisation legislation providing for its affixing”

There is also currently no relevant Community Harmonisation Legislation for a standard damper to adhere to and so CE marking to an official European standard is not possible.

CE Marking is required if dampers are Classed as fire rated safety products or according the building regulation 2016 a supporting the structure of the building, that is unless it comes into the Bespoke construction Section of the legislation and then due care and diligence needs to be illustrated.

This is our own interpretation of the current legislation and would react accordingly if required by law.

Engineered Air Treatment Ltd are a ISO9001: 2015 certified company, and can offer full material certification and traceability. We can also issue Certificate of Conformity, stating that we have supplied as ordered. We also supply EC Declaration of Incorporation with our products.