



6 metre Hinged Beam with two Flexi Arms and Filtered Cleaner

BH6, 2 x AF3, FU8, SS200

## Hinged Beams

Models BH3, BH6

Enhancing the Ozone Pollution Technology range are the new three metre and six metre Hinged Beams.

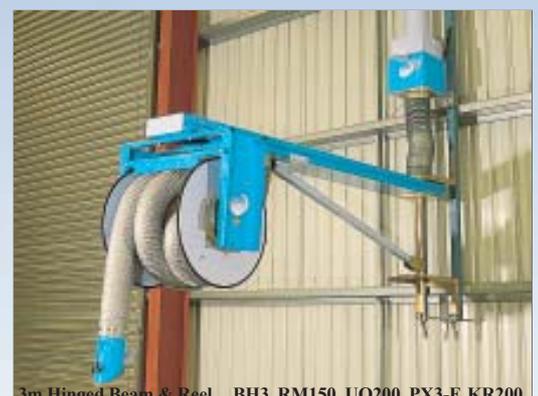
Continuing Ozone's tradition of product innovation, pollutant actually passes through the Beam's support structure. This compares favourably with older designs which rely on hose or duct being fastened to a separate support framework.

Two low friction bearings allow the Beam to swivel freely. The whole extraction system can be moved against the wall when not in use, increasing safety and preventing obstructions to overhead cranes, for example. The six metre Hinged Beam can increase the working area of a Flexi Arm to an incredible 50 square metres.

The Hinged Beam has been purpose built to move pollutant easily. It is designed for fume and gas extraction. The integral design allows one or two Flexi Arms to be directly connected. The second Arm can be simply added at a later date, if required - everything is supplied. No additional connections, transitions or adaptors are needed. The large cross-sectional area easily copes with the higher airflow rates needed when two Arms are attached.

Like its Flexi Arm stablemate the Beam uses no flexible hose in its construction, resulting in improved performance and minimal maintenance. The elegant design ensures good looks as well, with its low profile and corrosion resistant finish.

Hinged Beams can be useful additions to a vehicle exhaust extraction system. The rigid construction means Electric, Remote Control or Manual Hose Reels can be safely mounted at the end of the Beam. Coupled with the long hose lengths possible on Ozone Reels, the one inlet can then serve multiple workstations. The Reel is mounted transversely on the Beam, which is essential for user-friendly work in all directions.



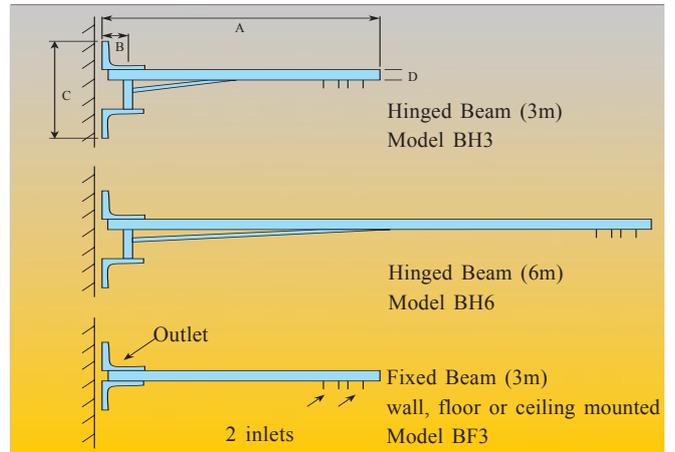
3m Hinged Beam & Reel BH3, RM150, UO200, PX3-F, KR200

# Beams

The Hinged Beam is securely mounted by its two brackets with the bolt pattern deliberately spaced apart to suit a range of wall types.

The Beam outlet flange is stationary and is simply joined to an Extractor or Cleaner by the flexible connector which is supplied with the Beam.

Like all Ozone products, the Hinged Beams are supplied with a comprehensive, easy to follow instruction manual. The Ozone system leaves little to chance.



## Fixed Beam

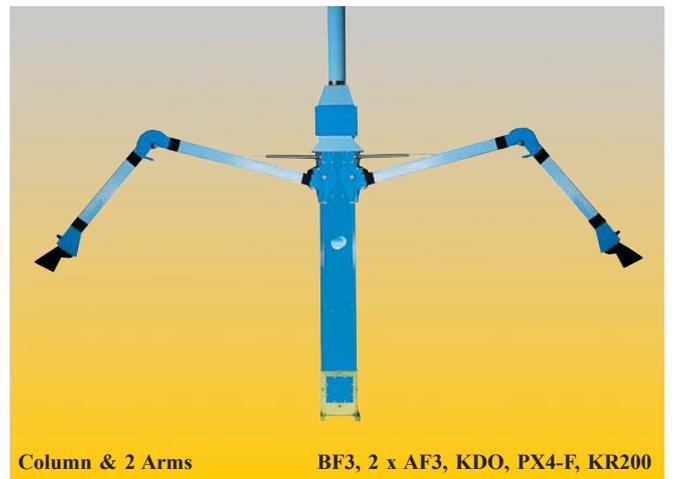
Model BF3

The three metre Fixed Beam displays the application versatility that is the hallmark of the Ozone Pollution Technology range. It can be used as a structural support only for other Ozone products, or as an integral component of the Extraction System, with pollutant actually passing through it. In addition, it can be used as a wall-mounted extension, floor-mounted column or ceiling-mounted dropper. The Fixed Beam has an amazing variety of uses! Its high quality finish combines well with the other system components to provide a complete and professional package.

As a wall extension, the Beam will support one or two Flexi Arms or a Hose Reel. In these cases, the pollutant passes through the Beam. The Ozone PX3-F Extractor sits snugly inside the Beam's mounting bracket, as shown in the photo below, resulting in an all-solid System with no flexible hose. This is normally used with one Arm or a Hose Reel. Alternatively, the Beam can be joined to more powerful wall-mounted Extractors or Cleaners by a flexible connector, which is supplied with the Beam. If preferred, the alternate outlet underneath the Beam can be used - a useful feature when connecting to a floor-mounted Cleaner.



As a floor-mounted column the Beam can again be used as either support only or as an integral duct component. This is ideal for workstations located away from structural walls.



The ceiling dropper option is another distinctive feature. It is ideal for applications where the Extraction System must be ceiling mounted, but needs to reach down to a low pollutant source. Sturdy twin brackets allow secure fastening of the Beam to the mounting surface.

Alternatively, two Flexi Arms can be mounted to the ceiling dropper.

The Applications section on the next page shows a few of the many possible uses for the versatile Fixed Beam.



## Flexi Arms

Models AF2, AF3, AF4

Flexi Arms and Beams combine neatly to provide a flexible, yet robust solution for extracting pollutant in the workplace. Like the Beam, the Ozone Flexi Arm uses no flexible hose in its construction, resulting in improved performance and minimal maintenance. With 360° rotation at the mounting point, an amazingly large work area can be covered.

By incorporating state of the art materials and design technology, arm weight has been kept to a minimum without sacrificing strength. The Beam will support two Flexi Arms without the need for any additional components.

The low pressure drop design of the smoothly contoured Flexi Arm combines well with the Beam's large cross-sectional area. Airflow sufficient for two Arms is easily achieved by smaller, energy efficient extractors or cleaners.

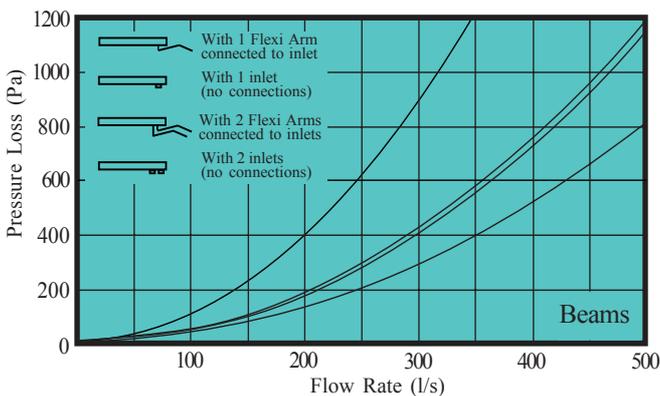
Flexi Arm accessories, such as limit stops, dampers and low voltage lights, add further value to an Arm/Beam Extraction System.



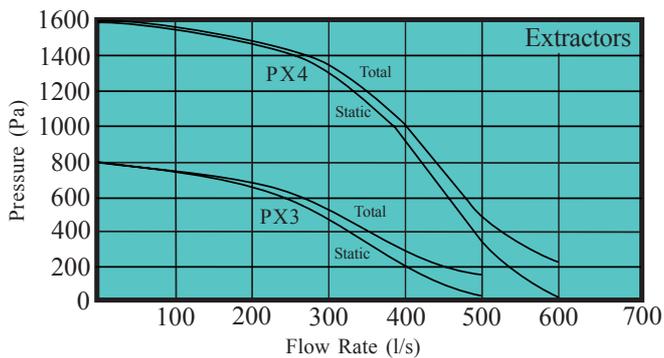
Flexi Arm

Beams

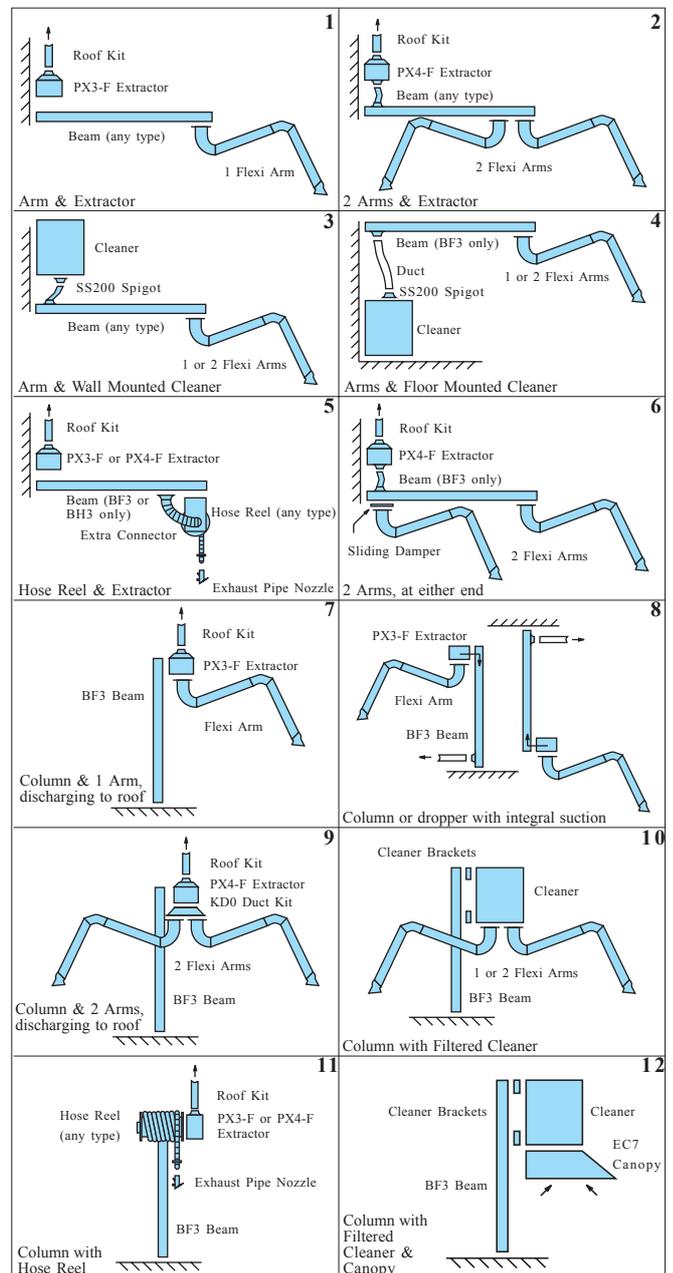
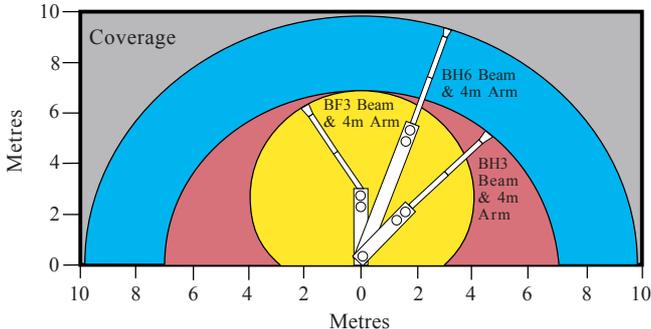
## Applications



(Curves show total system pressure loss for BH6 with 200mm Ø inlet/s and straight connector on outlet (200mm spigot & 2m of straight flexible hose). BH3 & BF3 curves are almost identical. Flexi Arms include their entry loss and are the AF3 model in typical working position: shoulder & elbow at 120° & wrist in standard position).



(Curves show fan static & fan total pressure gains for right angle flow without guards & with 200mm Ø ducted inlet & ducted outlet, BS or AMCA type D test. Other configurations yield higher or lower curves).



Ozone products are shown in blue. All necessary connections are included with the products, so they simply bolt together. (All standard Beams include a Connector: 2m x 200Ø regular duty hose, spigot, and duct tape). The "words" in each box fully describe the set of Ozone products to be ordered for a complete system. See Accessories section for codes.

## Data Table

Beam Code →	BF3	BH3	BH6
Type	Fixed 3m	Hinged 3m	Hinged 6m
Mounting surface	Wall, Floor, Ceiling	Wall	Wall
Dimensions (see sketch)			
A (mm)	2995	2995	5895
B (mm)	255	255	255
C (mm)	705	1400	1400
D (mm)	105	105	105
Weight (kg)	50	70	110
Recommended min flow rate - Fume (l/s)	200	200	200
- Gases (l/s)	100	100	100
Can mount 1 or 2 Flexi Arms to beam	Yes	Yes	Yes
Can mount 1 Hose Reel to Beam	Yes	Yes	No
Connector included as standard (hose, spigot, duct tape)	Yes	Yes	Yes

## How To Order Beams



Choose Beam code from above table

Then choose Accessories from the diagrams opposite

Example 1: Application 1 on previous page: Suppose Fixed Beam with 4m Arm required: Order BF3, AF4, PX3-F, KR200.

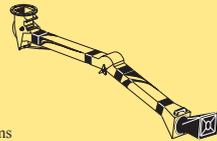
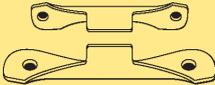
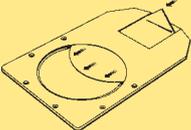
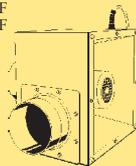
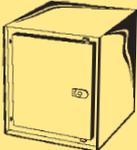
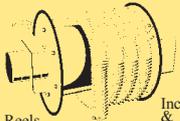
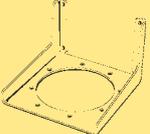
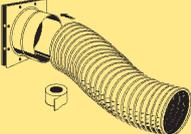
Example 2: Application 2 on previous page: Suppose 3m Hinged Beam with 2 x 3m Arms required: Order BH3, 2 x AF3, PX4-F, KR200

Note: if ordering for overseas, also specify phase, voltage and frequency.

## Technical &amp; Safety notes

- The Beam is designed for fumes and gases (but not dusts).
- Best practice is to connect each Beam to an individual extractor and to achieve a minimum 200L/s flow rate per Arm or 100L/s for a Hose Reel.
- Installers must ensure strength of mounting surface and fasteners are adequate. Connecting flexible hose should be relatively straight.
- Designing a multi-Beam system: a) choose flow rate per Beam; b) read pressure loss for 1 Beam from graph; c) find total flow rate based on Beams needed to operate at same time; d) design connecting duct to achieve correct transport velocities; e) calculate total pressure loss = Beam loss + duct loss + exit loss from system + contingency; f) plot (total flow rate, total pressure loss) point and select nearest Extractor whose total pressure curve exceeds this.
- Do not operate products before reading Instruction Manuals.
- This brochure describes standard products that are not designed for use with pollutants which are explosive, flammable/combustible, highly corrosive, wet, hot or incendiary and are also not designed for use in areas which are hazardous. Any request for non-standard products or particular capture/filtration efficiencies must be clearly stated in writing on the customer's final order and, if accepted, will be restated on Ozone's invoice.
- Customers should consult and comply with all National and State laws/regulations/standards when using pollution control products. This includes electrical, manual handling, safety, hazardous substance and waste disposal practices.
- Personal respiratory protection may also be required if pollutant concentrations in the operator's breathing zone exceed exposure standards/TLVs.
- It is impossible to list all the potential safety hazards associated with pollution control. Ozone is a supplier of standard products: not a consultant or contractor. We rely on the customer and their consultants or contractors to safely select products, and design connected systems to suit their pollutant, and to safely install, operate and maintain these products and systems.

## How to Order Accessories

<table border="1"> <thead> <tr> <th>Type</th> <th>Length</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Flexi Arm</td> <td>2m</td> <td>AF2</td> </tr> <tr> <td>Flexi Arm</td> <td>3m</td> <td>AF3</td> </tr> <tr> <td>Flexi Arm</td> <td>4m</td> <td>AF4</td> </tr> </tbody> </table>  <p>Flexi Arms</p>	Type	Length	Code	Flexi Arm	2m	AF2	Flexi Arm	3m	AF3	Flexi Arm	4m	AF4	 <p>Flexi Arm Limit Stops</p> <p>OF7</p>
Type	Length	Code											
Flexi Arm	2m	AF2											
Flexi Arm	3m	AF3											
Flexi Arm	4m	AF4											
 <p>Sliding Damper</p> <p>DS200</p>	 <p>Flexi Arm Light</p> <p>OL7</p>												
<table border="1"> <thead> <tr> <th>Nos. of Arms</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PX3-F</td> </tr> <tr> <td>2</td> <td>PX4-F</td> </tr> </tbody> </table>  <p>Extractors</p>	Nos. of Arms	Code	1	PX3-F	2	PX4-F	 <p>Includes weather proofing and mounting brackets</p> <p>Roof Kit</p> <p>KR200</p>						
Nos. of Arms	Code												
1	PX3-F												
2	PX4-F												
<p>For Beam with 1 or 2 Arms. Various filter types</p>  <p>Cleaners</p>	<p>Connects Cleaner to Column</p>  <p>Cleaner Brackets</p> <p>OB8</p>												
<table border="1"> <thead> <tr> <th>Type</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Electric</td> <td>RE</td> </tr> <tr> <td>Remote</td> <td>RR</td> </tr> <tr> <td>Manual</td> <td>RM</td> </tr> </tbody> </table>  <p>Hose Reels</p> <p>Includes spigot &amp; clamp</p>	Type	Code	Electric	RE	Remote	RR	Manual	RM	 <p>Flexi Arm Bracket</p> <p>OB6</p>				
Type	Code												
Electric	RE												
Remote	RR												
Manual	RM												
<p>Includes gasket</p>  <p>Duct Kit</p> <p>KD0</p>	<p>Includes 2m x 200Ø Regular Duty Hose, Spigot and Duct Tape</p> 												

## Useful Conversions

1m = 1000mm = 3.38 feet  
 1kg = 1000g = 2.20 pounds  
 1Pa = 0.102mm water = 0.004 inches water  
 1L/s = 3.60m<sup>3</sup>/hr = 2.12cfm  
 1kW = 1000W = 1.34hp

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