



This range of versatile Extractors is designed specifically for high pollutant loads. The first choice for any multi-inlet system. Each Extractor incorporates a number of unique and practical features. Self-cleaning, backward-inclined blades prevent pollutant buildup. High pressure rotors allow small diameter ducting to be used, with correspondingly lower costs and better pollutant transport velocities. The patented Triple Flow System allows the Extractors to be easily assembled on site into one of three distinct configurations, to suit any application.

Ozone System Extractors. Innovation in pollution control!

Roof Models

YR6

Model YR6 is a Roof Mounted System Extractor. Highly versatile, it can be quickly and easily assembled in three ways. Simply choose the configuration you require by orientating the weather caps and extractor case, on site, to result in:

- An Extractor with vertical discharge.
- An Extractor with downwards discharge.
- A Supply Unit to deliver fresh air.

A range of motor/rotor combinations produces operating flow rates from 400 to 1600 litres per second. Suitable for fume extraction through up to eight separate Flexi Arms, for example.



Simple roof installation

Despite their high performance, Ozone YR6 Extractors are remarkably compact and lightweight. Unlike many conventional extractors, which have to be craned on to a specially reinforced roof, Ozone System Extractors are simple to lift into place.

Six models are available, ranging from 1.1kW to 4kW. All feature identical case dimensions and include a roof skirt and weather cover. They are extremely simple to install.



System Extractors

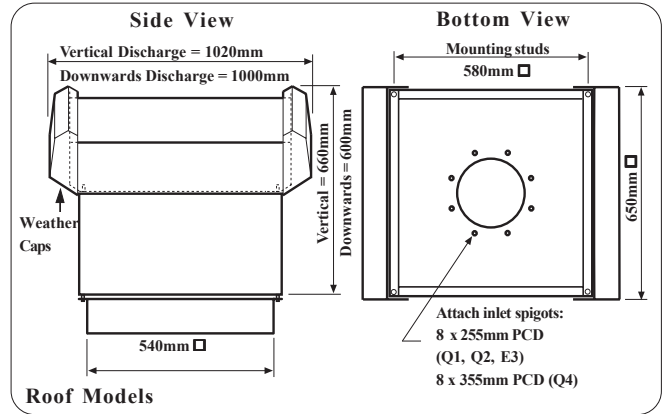
Purpose built designs for Central Extraction from Pollution Control Systems

System Extractors



With Inlet Spigot

Various sized Spigot Accessories simply attach to the Extractor inlet. Alternatively, a dropper duct can be connected to the roof upstand, in the conventional manner. All components are easily assembled on the roof. Fabricated in zinc-treated steel, with a baked polymer coating for complete corrosion protection.



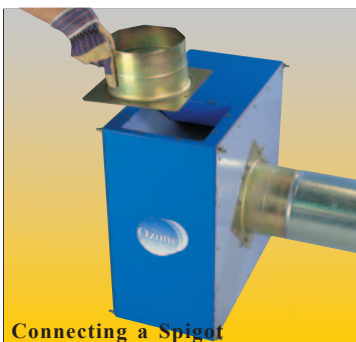
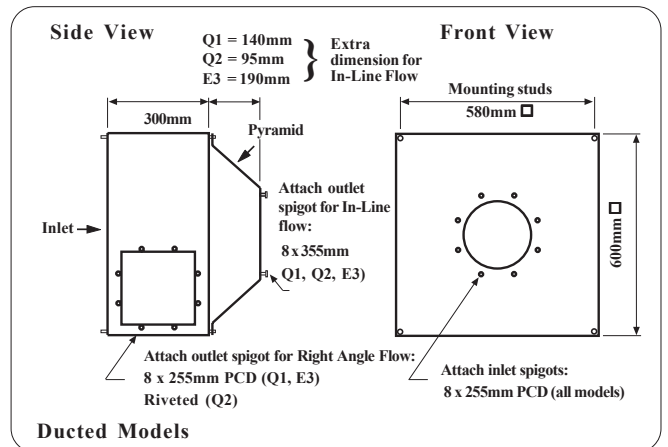
Ducted Models

YD6

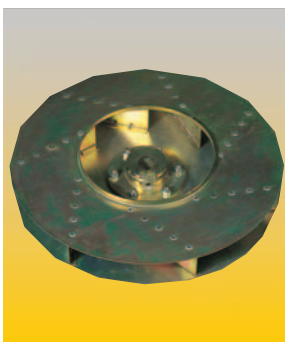
The Ducted System Extractor model YD6 is designed to accommodate both inlet and/or outlet ducting. It features Ozone's backward-inclined rotor. All Ozone Extractors are statically and dynamically balanced.

With its patented design, the YD6 Extractor can be easily assembled on site, in any of three different configurations depending on the orientation of its pyramid:

- As an In-Line Centrifugal, to suit straight duct lengths. Also includes an in-built silencer.
- As a Right Angle Centrifugal, to suit duct lengths which change direction. Also ideal when the motor should be removed from the airstream for potentially corrosive, hot or explosive pollutants.
- As a Diffuse Outlet Centrifugal, for mounting through a wall or for customised applications.



Connecting a Spigot



Wall mount & discharge stack

Pictured here is a Right Angle Centrifugal, with its pyramid exposed. This configuration suits mounting on an outside wall as it protects the motor from the weather and allows a vertical discharge stack to be connected. Ideal when the extractor cannot be roof mounted and noise within the workshop must remain low.

Thanks to its box shaped design, the YD6 is simple to mount on walls, floors, columns or machines. It can be twisted in any direction. Comes complete with mounting studs, pyramid, blank, mesh guard and gaskets.



Duct Kits

Small systems, with three or four Flexi Arms, are easily designed using the Ozone Duct Kit. The Duct Kit can be connected to either a Roof or Ducted System Extractor.

The US300 accessory is a unique flexible hose section with the

Duct Kit Code	No. of Arms simultaneous	No. of sections	Length
KD2	3 or 4	2	3m
KD3	3 or 4	3	4.5m
KD4	3 or 4	4	6.0m

same profile as the Duct Kits. Ideal for offsets around columns or bends around corners.



Spigots

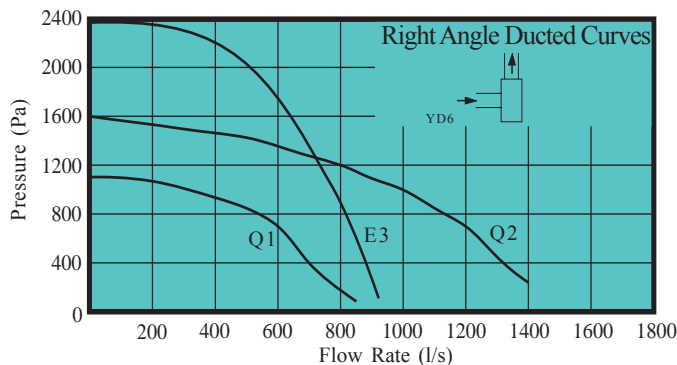
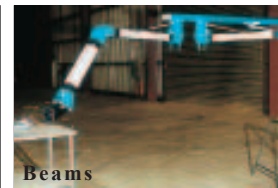
Various sized Spigot accessories are available and simply bolt to the System Extractors. They feature self-adhesive rubber gaskets, and a double stepped diameter to suit both metric and imperial hose or duct.



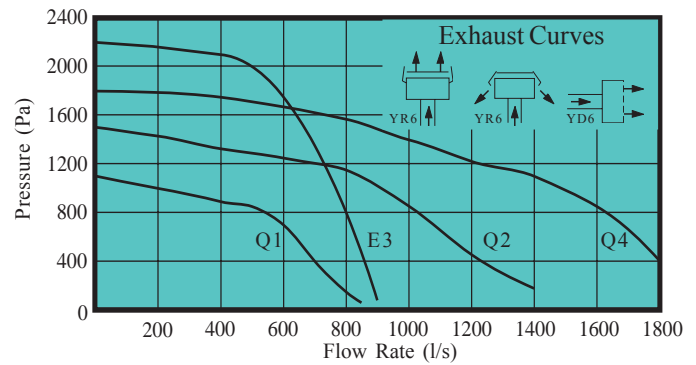
Arms, Beams, Reels

System Extractors are ideal for driving multiple Ozone Flexi Arms for welding fume, or Flexi Arm/Beam combinations, or Hose Reels for vehicle exhaust, or a wide range of custom applications.

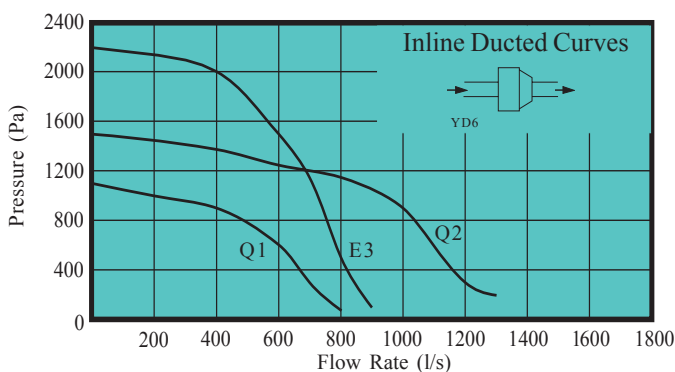
Number of Arms (at 200l/s each)	Recommended System Extractor
3	Q1
4 or 5	Q2
6, 7 or 8	Q4



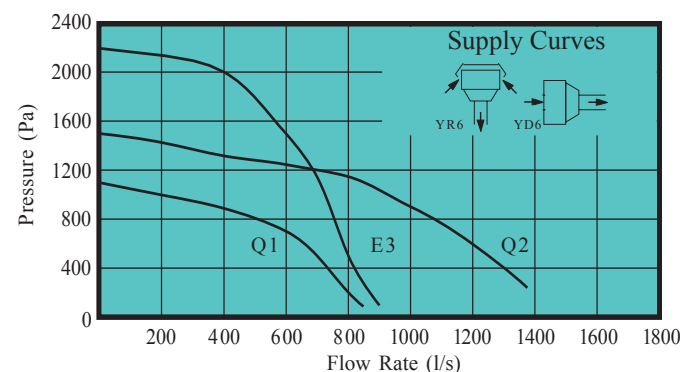
Curves show fan total pressure. Set equal to total system losses. This equals internal system losses (inlets + ducts + transitions) plus outlet loss (velocity pressure at system outlet). Tested with ducted inlet and outlet (300mm spigots, unguarded), AMCA or BS type D.



Curves show fan total pressure. Extractor outlet area is equivalent to approx. 330mm diameter circle. Tested with vertical discharge, ducted inlet (300mm spigot, unguarded), AMCA or BS type C.



Curves show fan total pressure. Tested with ducted inlet and outlet (300mm spigots, unguarded), AMCA or BS type D.

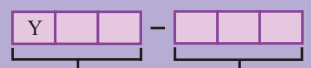


Curves show fan total pressure. Tested with a roof mounted supply unit, OP300 Adaptor, ducted outlet (300mm spigot, unguarded), AMCA or BS type B.

Data Table

Model Code	Motor Code	Electric Phase	Motor Rated Power (kW)	Weight (kg)	Sound Pressure Level, 1m from, ducted inlet (roof models), ducted inlet and outlet (duct models)	Triple Flow Feature	Spigot Accessory Typically Used		
							Inlet	Outlet (Right Angle Flow)	Outlet (Inline Flow)
Roof YR6	Q11	1	1.1	52	69	✓	SS300	-	-
	Q13	3	1.1	54	69	✓	SS300	-	-
	Q21	1	2.2	64	74	✓	SS300	-	-
	Q23	3	2.2	64	74	✓	SS300	-	-
	Q43	3	4.0	69	76	✓	-	-	-
Ducted YD6	E33	3	3.0	67	75	✓	SS300	-	-
	Q11	1	1.1	39	69	✓	SS300	SS300	SS301
	Q13	3	1.1	41	69	✓	SS300	SS300	SS301
	Q21	1	2.2	52	74	✓	SS300	SS302	SS302
	Q23	3	2.2	52	74	✓	SS300	SS302	SS302
E33	3	3.0	55	75	✓	SS300	SS300	SS301	

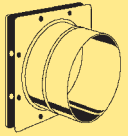
How To Order System Extractors



Choose Model Code from above table
 Choose Motor Code from above table
 Then choose Spigots (and other Accessories) from diagrams below.
 Example: Application 2 on this page, Roof model for 8 x 3 metre Flexi Arms. Order: YR6-Q43, 8 x AF3.
 Note: if ordering for overseas, also specify phase, voltage and frequency.

Spigots

Table shows bolt up options



Spigot Code	Diam (mm)	Q1			Q2			Q4			E3		
		Inlet	RA	IL	Inlet	RA	IL	Inlet	RA	IL	Inlet	RA	IL
SS200	200	✓	✓	-	-	-	-	-	✓	✓	-	-	-
SS300	300	✓	✓	✓	-	-	-	-	✓	✓	-	-	-
SS301	300	-	-	✓	-	-	-	-	-	-	-	-	✓
SS302	300	-	-	✓	-	✓	✓	-	-	-	-	-	✓

RA = Right Angle Outlet for YD6, IL = In-Line Outlet for YD6

Other Accessories

Flexi Arms

Length	Code
2m	AF2
3m	AF3
4m	AF4

Vehicle Exhaust Hose Reels

Type	Code
Electric	RE
Remote	RR
Manual	RM

Beams

Model	Code
3m Fixed	BF3
3m Hinged	BH3
6m Hinged	BH6

Square Flexible US300

Duct Kits Models KD2 to KD4

Canopy EC8

Adaptor OP300

Roof Pod OR200

Blank SB300

Diam (mm)	Reg. Duty Hose	Heavy Duty Hose	Clamps
150	HR150	HH150	UK150
200	HR200	HH200	UK200
300	HR300	HH300	UK300

Floor OI8

Wall OI7

Brackets OB8 (order 2 off)

Isolators (order 4 off)

Applications

1. Duct Kit (3 or 4 arms) with YR6-Q1 (3 Arms) and YR6-Q2 (4 Arms) spigots.

2. Custom Ducting (5 to 8 Arms) with YR6-Q2 (5 Arms) and YR6-Q4 (6 to 8 Arms) spigots.

3. Hose Reels with 2 x SS300 Spigots and YD6-E3.

4. Supply Unit with YR6 and OP300 Adaptor SS301 or SS302 Spigot.

5. Bare Exhaust or Supply with YR6, Fit Inlet Guard, and Fit Outlet Guard on flat roof or angled roof up to 30 degrees.

6. Pressure Booster (Inline Centrifugal) with YD6 and 2 x Spigots.

7. With Canopy with YD6-Q1, Fit Inlet Guard, EC8 Canopy, Clamp, Flexible Hose, and Bolt Canopy direct to wall or use 2 x OB8 Brackets. Fit 4 x Wall Isolators (if required).

8. Ceiling Mounted with Roof Pod and 2 x Spigots (YD6 (Q1 or E3)).

9. Versatile Mounting: YD6 In-Line Flow with 2 x OB8 Brackets.

10. Versatile Mounting: YD6 Right Angle Flow with 2 x OB8 Brackets.

11. Mounted in Plant Room or Outside with 2 x Spigots (YD6) and 4 x Floor Isolators.

12. External Wall, Vertical Discharge with 2 x Spigots (YD6) and Order SB300.

13. External Wall, Down Flow with Spigot (YD6) and Order SB300 Fit Outlet Guard.

14. External Wall, Diffuse Outlet with Spigot (YD6) and Fit Outlet Guard.

15. Supply Unit with Spigot (YD6) and Fit Inlet guard.

16. External Wall, Large Ducting with YD6, Fit Outlet Guard, and Fit Inlet Guard.

Technical and Safety notes

- System Extractors must be configured to Right Angle Flow, to remove the motor from the airstream, if there is any risk of inadvertently extracting pollutants which are explosive, corrosive or hot.
- Observe electrical regulations and practices. Extractors are supplied with bare motor terminals. All wiring/contactors/overloads by others.
- Fit Mesh Guards, as required, to inlet and/or outlet.
- Read Instruction Manuals provided before operating products.
- This brochure describes **standard** products, designed for use in non-hazardous areas and for use with nuisance pollutants which are not: explosive, flammable, hot/incendiary, mixtures of sparks and combustibles, corrosive or toxic. If risk of toxic pollutants (concentrations in breathing zone above exposure standards/TLVs), also consider: ducting outside, product after-filters, outlet monitors, or personal respirators. Requests for non-standard products or particular capture/filtration efficiencies or filters, must be stated in writing on customer's final order and if accepted will be restated on Ozone's invoice.
- It is impossible to list all the potential safety issues associated with pollution control. Ozone is a supplier of standard products, not a consultant or contractor. We rely on the customer and their agents to safely select products, design connected systems, and install/operate/maintain these products and systems, to suit **their** pollutant. Customers should consult and comply with relevant National and State laws/regulations/standards.
- Extractor and Flexi Arm patents are pending.

Useful Conversions
 1m = 1000mm = 3.38 feet
 1kg = 1000g = 2.20 pounds
 1Pa = 0.102mm water = 0.004 inches water
 1L/s = 3.60m³/hr = 2.12cfm
 1kW = 1000W = 1.34hp

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