



Bench Cleaners

for controlling fumes, dusts & mists

... ergonomic
pollutant free
workstations.

Bench Cleaners



BD7, OV7

Downdraft Bench

Model BD7

Introducing a range of unique, mobile work benches with integral dust and fume extraction capabilities. Ergonomically designed Ozone Bench Cleaners maintain productivity while providing a clean, healthy work environment.

Downdraft Bench Cleaners are an ideal solution whenever dust or fume is generated by a handheld tool when grinding, sanding, polishing, de-burring, welding, or oxy-cutting. With their Channel Cartridge filter, Downdraft Bench Cleaners are equally suitable for metal, fibreglass, plastics or wood.

Thanks to the "overhanging" bench top, a comfortable work position is assured. The Ozone Vice is a useful accessory and bolts flush to the benchtop through the extraction slots.

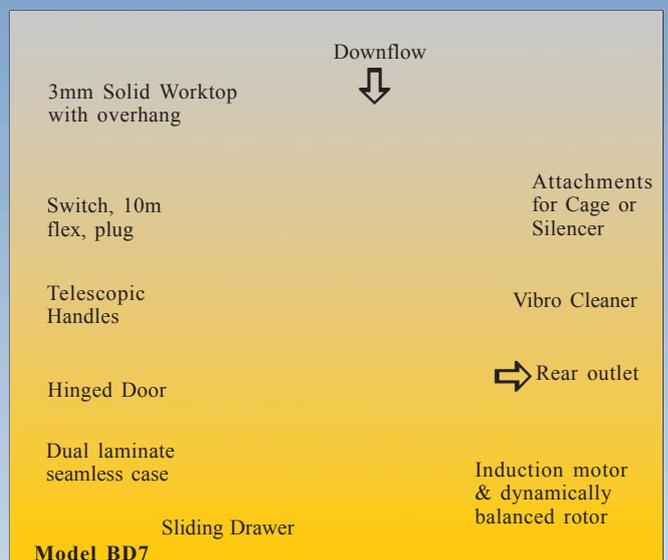
The Vibro Cleaner ensures safe and quick filter cleaning. Simply move the handle in and out. By connecting a compressed air line to the fitting supplied, additional filter cleaning results.



BD7, OC7

The Bench Cleaner sits "rock solid" on the floor when in use.

Simply tilt it by using the telescopic handles to wheel it away.



Vibro Cleaner



Sliding Drawer

Downdraft Bench Cleaners. Combining the advantages of a well designed, ergonomic workstation with the latest technology in pollution control.

Bench Cleaners

Slot Benches

Models BT7, BQ7

Slot Benches are ideal for welding fume extraction. The raised plenum, with its two inlet slots, draws rising fume away before it enters the welder's breathing zone.

Adjustable dampers allow the extraction rate to be controlled through each slot. Extraction can be split evenly between both slots or directed through one or the other. The filtered air discharges through the back of the Cleaner, away from the welder.



Model BQ7 has back-to-back workstations on the one Bench Cleaner. In this configuration the filtered air discharges to the side, away from both welders. An outlet silencer can be connected as shown, to further reduce the already low noise level.

Slot Benches can also be wall or ceiling mounted above existing work benches.



Enclosure Bench

Model BE7

Model BE7 Bench Cleaners feature a high quality acrylic enclosure. They are typically used for compressed air cleaning of electronic components, grinding smaller items or working with toxic dusts.

The Cleaner develops an air curtain across the opening of the enclosure hood, preventing dust from escaping into the workshop. The dust is drawn through the slots in the worktop and collects in the dust drawer, which slides out for emptying. When there is a risk of toxic dust a Hand Glove accessory can be attached.

The acrylic enclosure has excellent optical and strength characteristics. A low static polish is available, which prevents dust build up on the inside surface.

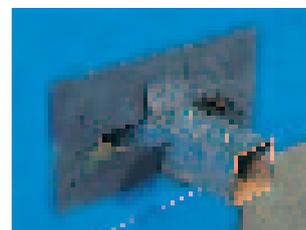


Acoustic Bench

Model BA7

With the Acoustic Bench Cleaner, Ozone's engineers have developed a unique workstation, combining the very best in both air pollution control and noise suppression techniques. Model BA7 is perfect for those workshop applications which create both air and noise pollution.

The optional low voltage Light Kit is a useful accessory. The acoustic hood has two alternative positions.



A common application is cutting metal, masonry or ceramics with friction saws. The rubber flaps in the sides of the hood allow longer lengths of material to be easily fed through to the saw.

Paint Spray Bench

Model BP7

The impressive Paint Spray Bench Cleaner is both a practical and economical alternative to conventional larger spray booths when painting smaller items. Model BP7 offers the same performance and safety features employed in larger booths.



BP7, OT7

The filter media is manufactured from glass fibres and is supplied in multi-layered pads. When the outer layer becomes discoloured, simply peel it off to expose the next layer.



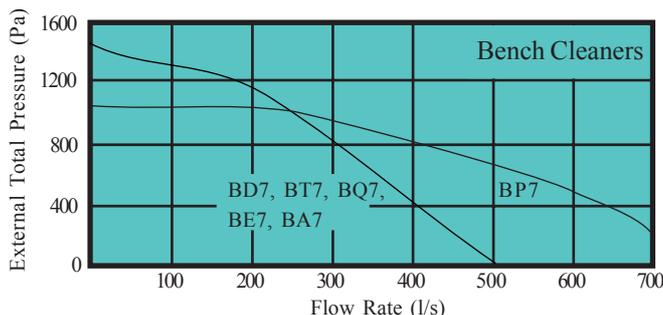
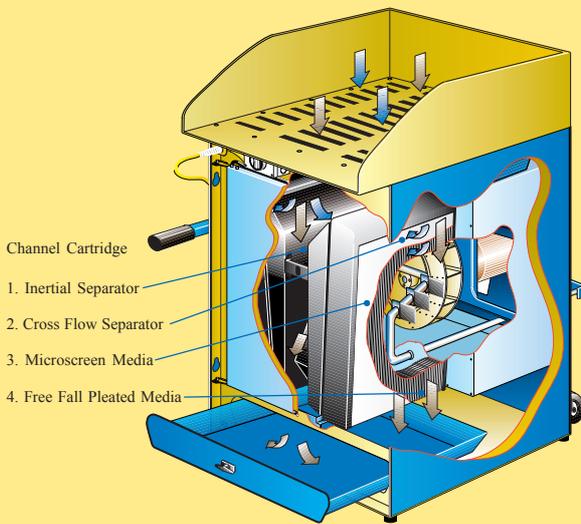
The motor is rated for hazardous use and is located out of the filtered airstream, providing maximum protection.

High efficiency fume filters can also be added between the paint spray filter and the extractor rotor. The Ozone Roof Kit is easily ducted to the Cleaner outlet and connects to a spigot accessory. The Ozone Turntable is a useful accessory for spraying smaller items. The entire system comes in kit form and simply bolts to the wall.

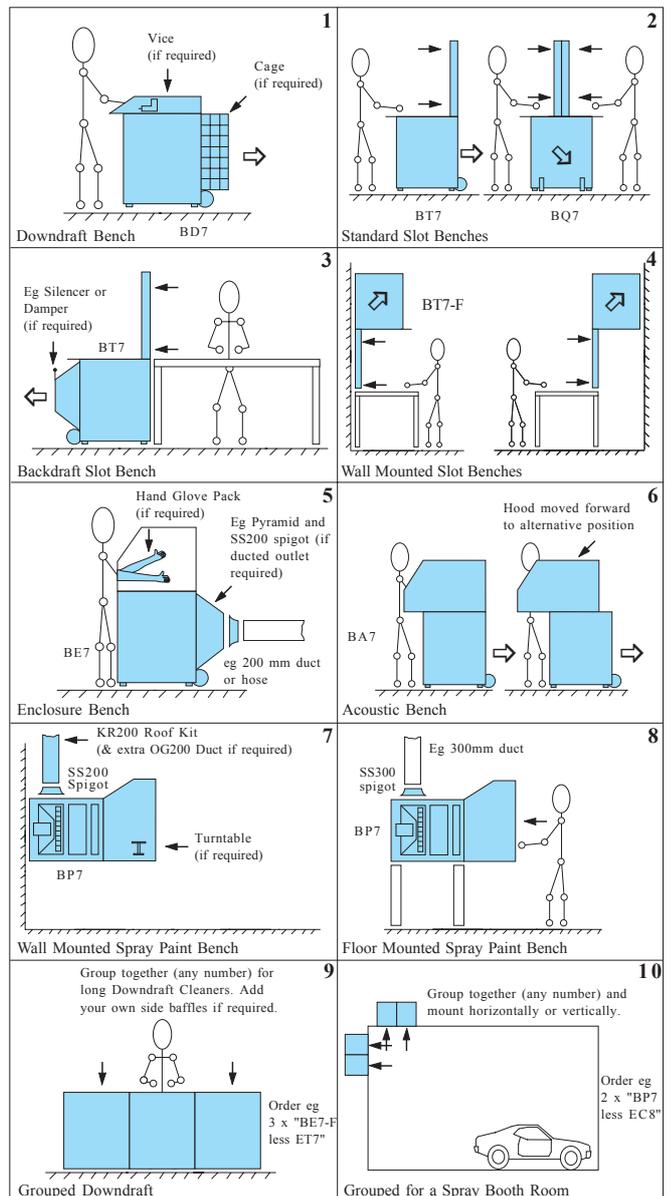
Paint Spray Bench Cleaners. Everything you need in one kit.

Applications

At the heart of the Bench Cleaner is the unique Ozone Channel Cartridge. A four-stage process provides long filter life and efficiencies generally greater than 99.9%.



Curves show total pressure at Cleaner outlet, when ducted. Set equal to total pressure of downstream system (system losses + velocity pressure at end of system). Tested with clean filters, diffuse inlet, ducted outlet (BP7 300mm diam, other models 200mm with Pyramid), standard Cleaner at beginning of system (AMCA or BS type B).



Ozone products are shown in blue. All necessary connections are included with the products so they simply bolt together. 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

Cleaner Code →	BD7	BT7	BQ7	BE7	BA7	BP7
Type	Downdraft		Slot	Enclosure	Acoustic	Paint Spray
Dimensions, as standard – Width W (mm)	770	770	910	770	1200	1200
(case& wheels) – Length L (mm)	950	950	800	950	1010	1520
– Bench Top Height, Fixed (mm)	910	910	910	910	910	910
– Bench Top Height, Mobile (mm)	940	940	940	940	940	–
– Overall Height, Mobile (mm)	1190	2090	2090	1550	1550	–
Bench Top Area – Width (mm) x Length (mm)	700 x 800	700 x 650	2 x 700 x 360	700 x 800	1100 x 700	1200 x 600
Weight, as standard (kg)	155	155	175	160	170	145
Sound Pressure Level, semi-reverberant, operator position, Silencer fitted (dBA)	66		68	65	65	67
Recommended flow (l/s)	350	250	300	200	350	500
Filter media area (m ²)	10		10	10	10	0.8
Drawer, 40 litre capacity	Yes		–	Yes	Yes	–
↓ Option Code						
– Extractors – 1 kW, 1 phase (switch,10m flex, plug)	Standard		Standard	Standard	Standard	–
E13 – 1 kW, 3 phase (contactor, overload)	Option		Option	Option	Option	–
– – 1 kW, 3 phase, Class 1 Zone 1 Exe	–		–	–	–	Standard
– Mounting Method – Mobile (2 wheels)	Standard		Standard	Standard	Standard	–
F – Fixed	Option		Option	Option	Option	Standard
M Filter Cleaning – Manual	Option		Standard	Option	Option	Standard
V – Vibro	Standard		Option	Standard	Standard	–

How To Order Bench Cleaners

Choose Cleaner Code from above table

Options

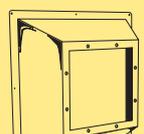
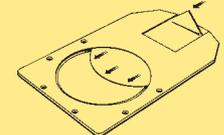
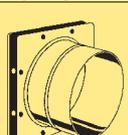
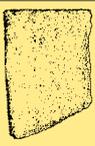
- Extractor: Leave blank if standard, or **E13** if Option
- Mounting Method: Leave blank if standard, or **F** if Option
- Filter Cleaning: Leave blank if standard, or **M** or **V** if option

Then choose Accessories from the diagrams opposite

Example 1: Application 1 on previous page. Require manual cleaning.
Order: BD7-M, OV7, OC7.

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

How to Order Accessories

<p>Bolts directly to Downdraft, Acoustic or Enclosure Bench slot pattern</p>  <p>Vice OV7</p>	<p>Use with Paint Spray Bench</p>  <p>Turntable OT7</p>
 <p>Cage OC7</p>  <p>Pyramid OP200</p>	 <p>Silencer QI7</p>
<p>Use with Acoustic Bench</p>  <p>Light (Not for use with BP7) OL7</p>	<p>Use with Enclosure Bench</p>  <p>Low Static Polish RL8</p> <p>Use with Acoustic Bench</p>  <p>Acoustic Tape RA8</p>
 <p>Sliding Damper DS200</p>	<p>Use with Enclosure Bench</p>  <p>Hand Glove Pack OH7</p>
 <p>Spigots</p> <p>Diameter 200mm Code SS200 300mm Code SS300</p>	<p>Includes weather proofing and mounting brackets</p>  <p>Roof Kit KR200</p>
<p>Light Blue finish</p>  <p>Extra Duct Lengths OG200</p> <p>Also order Duct Tape RD8</p>	<p>Cartridges</p> <p>Cellulose, resin coated Code CR7 Polymer, embossed Code CP7 Micro Screen MM7</p>  <p>Channel Cartridges</p>
 <p>After Filters</p> <p>Type Bracketry Max Flow Code HEPA 200 l/s PA600 HEPA 550 l/s PH607 Gas 200 l/s PH615 Gas 400 l/s PG605 2PG605</p>	 <p>Filters</p> <p>Type Overspray Media Code (pack of 10) MO6 Semi Absolute Panel PS615</p> <p>For Paint Spray Bench</p>

- Technical and Safety notes**
- Bench Cleaners (including model BE7) are not Fume Cupboards. They are designed for pollutants which are primarily particulates, not gases.
 - Model BP7 must be ducted outside above roof level. Use straight, solid ducting (rather than flexible hose) whenever practicable.
 - Model BA7 reduces ambient noise levels for surrounding workers. The local operator must wear ear protection.
 - If sparks present, order flame retardant filter. If dust loads significant, order microscreen.
 - Wall and floor mounted products must be fixed securely to suitable surfaces and isolation mounted to reduce noise if necessary.
 - Temperature range design limit: -10°C to +50°C.
 - Channel Cartridge filters are designed for pollutants which are free flowing (not sticky, agglomerative or hygroscopic), load (<0.2g/m³ for fume, <2g/m³ for dust), size (50% >1 micron for fume, 50% >15 microns for dust), and up to the "Recommended Flow". For other loads or sizes, reduce flow (to half that recommended in extreme cases) to maintain filter efficiency and cleanability.
 - 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), then also consider: ducting outside, product after-filters, outlet monitors, or personal respirators. Any request for non-standard products or for particular capture/filtration efficiencies or filters, must be stated in writing on the 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 Channel Cartridge 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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