



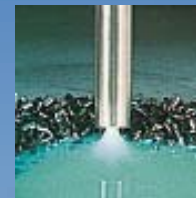
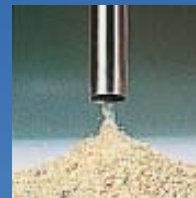
# Industrial Vacuum Cleaners

... setting a new benchmark in pollution control.

Industrial Vacuum Cleaners



ID7, KV50, OC7



## Model ID7

In creating this outstanding range of Industrial Vacuum Cleaners, Ozone has established an impressive new benchmark in pollution control. These technologically advanced cleaners offer a number of distinct advantages over conventional products.

- Single phase, continuous duty motors and multi-stage turbines, rated for 100,000 hours. Practical, safe and reliable.
- Massive 10m<sup>2</sup> high efficiency filters - five times greater than an average industrial cleaner. The in-built Vibro Cleaner provides excellent filter cleaning and guarantees long filter life.
- Remarkably versatile, Ozone Vacuum Cleaners can also be used for power tool dust extraction and even welding fume extraction. The unique inlet spigot allows a variety of Kits to be easily connected.
- Ozone Vacuum Kits include a 5 metre lightweight, highly flexible vacuum hose. Importantly, the hose is carbon impregnated, providing excellent static protection.

The popular model ID7 is remarkably compact. Genuinely industrial, the motor is fully contained within the dual laminate seamless case. Designed with the operator in mind, the Cleaner features non-marking swivel castor wheels with brakes, soft grip handles, and a rubber lined

storage recess. Dust is collected in a 40 litre slide out drawer.

The Cage accessory is ideal for storing various inlet Kit components when not in use.



Sliding Drawer



ID7, 2 x KI38, KV50, OC7

**Ozone Industrial Vacuum Cleaners. Innovation in pollution control!**

## Models IB7 and IW7

For model IB7, the drawer is replaced by an 80 litre bin. This bin is fitted with wheels and is simply locked on to the Cleaner by a geared lifting mechanism. A window allows the operator to check when the bin needs emptying.

The photo below shows the IB7 being used with the floor Sweeping Kit. The Kit simply fastens to the Cleaner wheels.

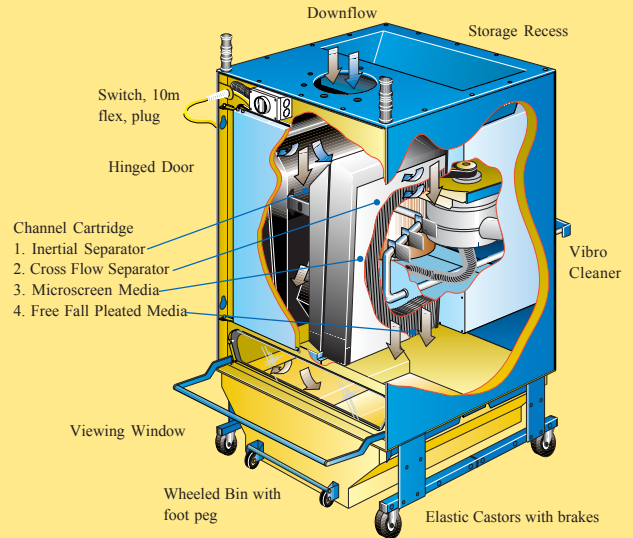


Floor Sweeping

IB7, KW50, OC7

Model IW7 is suitable for wet and dry vacuuming. The special polymer filter is water resistant. An electronic float sensor automatically turns the Cleaner off at a pre-set level.

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



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



Vibro Cleaner



Jet Cleaner

## Materials Handling

Model IB8

Model IB8 is perfect for large-scale mobile vacuuming. Used with a large diameter, 100mm or 150mm Vacuum Kit, high volumes of pollutant are rapidly vacuumed away. The large 80 litre dust holding capacity can be further increased through the use of a Separator Kit (see photo next page). Vacuum Kits include a gulper nozzle with ridged rubber skirt, to maintain air flow even when vacuuming large volumes.



IB8, KV100, SS100

## Fixed Hopper

Model IH7

Model IH7 is usually wall mounted and is designed for centralised vacuuming or pneumatic conveying systems with multiple inlet points. The bin is replaced by a 120 litre hopper with sliding gate valve which is periodically emptied into a waste container such as the Ozone Separator Drum. The electrical switch can be detached and relocated at a convenient place in the work area. A more powerful turbine extractor is available for large systems.



IH7-T43, SS200

## Kits

In addition to the four Vacuum Kits featured on the previous pages, Ozone can supply various Kits for airborne dust and fume extraction. KM100 features a magnetic inlet nozzle and 2.5 metres of high temperature 100mm hose. It is commonly used for welding fume and grinding dust extraction. The alternative model, KT100, is held in place by a suction nozzle.



IB7, KI38, KT100



Separator Kit KV50, SS50, KY200, SS200, IB7

### Manifolds



Pilot Gun Kit KP50

### Low Static Hose

Ozone Vacuum Cleaners will also extract dust from power tools. Ozone has a large range of add-on Manifold Kits for power tools which do not normally have integral dust extraction ports.

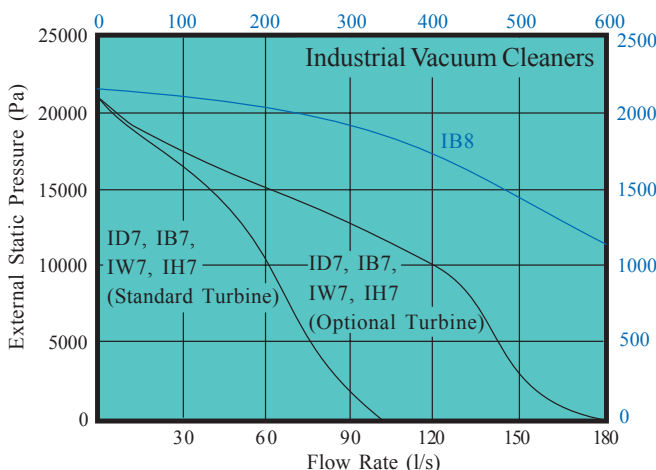
On-gun welding fume extraction is possible through various branded fume extraction welding guns, or by the Ozone Pilot Gun. This unique Kit can be retrofitted to any standard MIG gun.

Ozone hose is lightweight and very flexible. Being carbon impregnated it has much higher static protection than hoses with internal earth wires. Unlike coated hoses, its conductivity remains high over its lifetime.

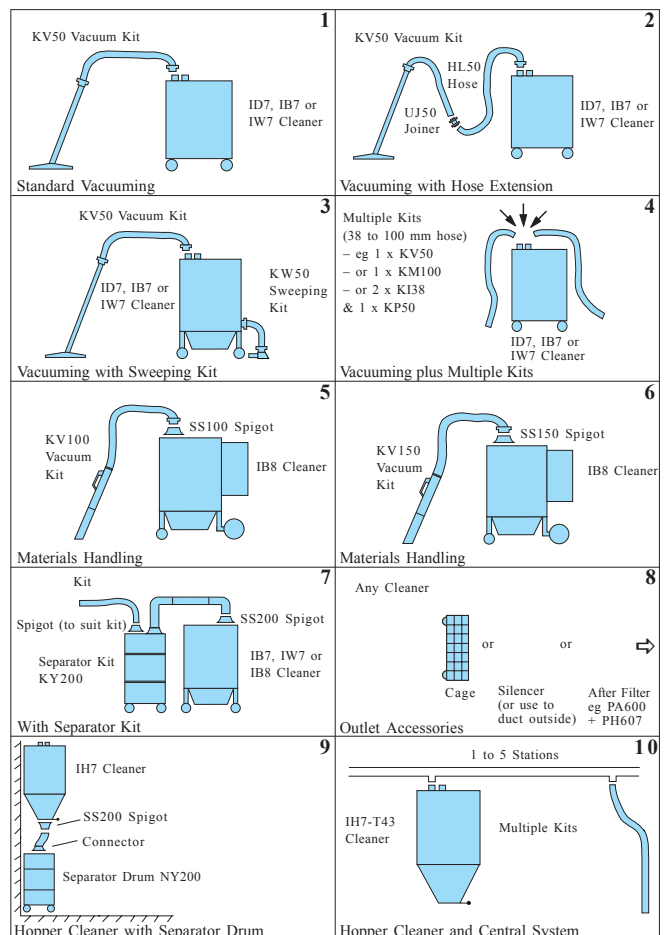
## Applications

A wide range of inlet Kits is available. Simply choose from the table (up to the recommended flow of the Cleaner).

Application	Vacuuming Debris				On-tool dust	On-Gun fume	Off-tool airborne dust/fume	
	KV50	KW50	KV100	KV150			KI38	KP50
Kit Name	Vacuum 50	Sweeping	Vacuum 100	Vacuum 150	Manifold	Pilot Gun	Magnetic	Suction
Hose Dia (mm)	50	50	100	150	38	50	100	
Min flow (l/s)	50	50	200	480	20	20	60	
ID7, IB7, IW7	✓	✓			✓	✓	✓	
IH7	✓				✓	✓	✓	
IB8			✓	✓			✓	



Use left hand/bottom axes for ID7, IB7, IW7, IH7. Use right hand/top axes for IB8. Curves show static pressure at Cleaner inlet. Set equal to static pressure of upstream system (system losses + velocity pressure at inlet). Tested with clean filters, ducted inlet (IB8 200mm diam, other models 100mm), diffuse outlet, standard Cleaner at end of system (AMCA or BS type C).



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 →	ID7	IB7	IW7	IH7	IB8
Type	Drawer	Bin	Wet/Dry	Hopper	Materials Handling
Container Capacity (litres)	40		80	120	80
Dimensions, as standard – Width W (mm)	740		720	700	720
(case & wheels) – Length L (mm)	700		700	700	980
– Height H (mm)	1030		1160	1440	1160
Weight, as standard (kg)	150		160	150	180
Filter media area (m <sup>2</sup> )	10		10	10	20
Motor Type: Continuous Running 100,000 hours, IP55	Yes		Yes	Yes	Yes
Turbine Type	High Pressure		High Pressure	High Pressure	High Flow
Sound Pressure Level, semi-reverberant, 1m front, ducted inlet (dBA)	72		72	73	76
Number of inlet spigots included	1 x 50, 1 x 100, 2 x 38 (tapered to 50)				
Maximum flow, standard extractor (l/s)	100		100 (180 for T43)		720
Recommended flow, standard extractor (l/s)	60		60 (120 for T43)		200 or 480
Wet or Dry Vacuuming	Dry	Dry	Wet/Dry	Dry	Dry
<b>↓ Option Code</b>					
– Extractors – 2kW, 1-phase (switch, 10m flex, plug)	Standard		Standard	Standard	–
<b>T43</b> – 4kW, 3-phase (contactor, overload)	–		Option	Option	–
– 3kW, 3-phase (contactor, overload)	–		–	–	Standard
– Filter Cleaning – Vibro	Standard		Standard	Standard	Standard
<b>M</b> – Manual	Option		Option	Option	Option
<b>J</b> – Jet Cleaner	Option		Option	Option	Option

**How To Order Industrial Vacuum Cleaners**

Options

Choose Cleaner Code from above table

Extractor: Leave blank if standard, or **T43** if Option

Filter Cleaning: Leave blank if Vibro, or **M** if Manual

Then choose Accessories from the diagrams opposite

Example 1: Application 2 on previous page. Order: ID7, KV50, UJ50, HL50.

Example 2: Application 4 on previous page (2 operators for power tool dust, manual filter cleaning). Order: ID7-M, 2 x KI38.

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

**Technical and Safety notes**

- Fixed ducting should be smooth bore and conductive with large radius bends.
- If requiring a low static system: order low static hose, electrically bond between tool/hose/duct/Cleaner at all connections, then earth. Check bonding/earthing periodically with an Ohm meter.
- If sparks present, order flame retardant filter. If dust loads significant, order microscreen.
- Temperature range design limit: -10°C to + 50°C. Pollutant size design limit: 50mm largest dimension.
- Designing a multi-inlet fixed system: a) choose flow rate required to capture pollutant at each inlet; b) find system flow rate based on inlets needed to operate at same time; c) design duct layout; d) choose duct diameters for correct transport velocities; e) calculate static pressure of upstream system = system losses (hoods/kits + fittings + duct) + velocity pressure at Cleaner inlet + contingency; f) plot (system flow rate, system static pressure) point and select nearest Cleaner/s whose curve exceeds this.
- Cartridge filters are designed for pollutants which are free flowing (not sticky or agglomerative or hygroscopic), and up to the "Recommended Flow". For high loads, use Separator Kit 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

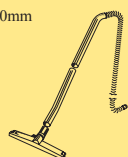
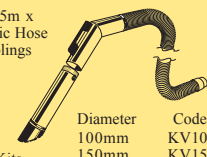
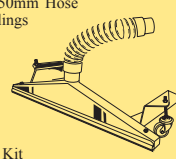
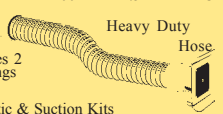


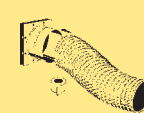
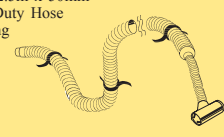




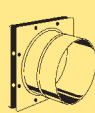


1kg = 1000g = 2.20 pounds

1Pa = 0.102mm water = 0.004 inches water

1L/s = 3.60 m<sup>3</sup>/hr = 2.12cfm

1kW = 1000W = 1.34hp

**How to Order Accessories**

Includes 5m x 50mm Low Static Hose & 2 couplings  Vacuum Kit KV50	Includes 5m x Low Static Hose & 2 couplings  Diameter 100mm 150mm Code KV100 KV150
Includes 50mm Hose & 2 couplings  Sweeping Kit KW50	Type Magnetic Suction Diameter x Length 100mm x 2.5m Code KM100 KC100 Includes 2 couplings Heavy Duty Hose  Magnetic & Suction Kits
Includes Drum, Lever Lock, Dolly, Duct, 1 x 200mm Spigot  Separator Kit KY200	Drum NY200 Connector UO200  
Includes 2.5m x 50mm Regular Duty Hose & coupling  Pilot Gun KP50	Includes 2.5m x 38mm Hose & 2 couplings  Specify your power tool brand & model Manifold Kits KI38
For Workstations  Cage OC7	All 5 m lengths Diameter 38mm, 50mm, 100mm, 150mm Regular Duty HR38, HR50, HR100, HR150 Low Static HL38, HL50, HL100, HL150  Hose
Diameter 38mm, 50mm, 100mm Plugs UP38, UP50, UP100 Joiners UJ38, UJ50, UJ100 Cuffs UC38, UC50, UC100  Plugs, Joiners & Cuffs	Diameter 50mm, 100mm, 150mm, 200mm  Spigots
Cartridges Cellulose, resin coated Polymer Micro Screen Size 7 CR7, CP7, MM7 Size 8 CR8, CP8, MM8  Channel Cartridges	Type Bracketry (Required) HEPA 200L/s, HEPA 550L/s Code PA600, PH607, PH615  After Filters

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