

At MICRONAIR our total focus is on designing and building the best systems to efficiently extract and capture Dust, Fibers and Fumes.

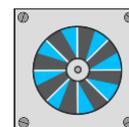


Flexible design means better results

We custom match fan types, motors, types of filter media and cleaning techniques with waste bin sizes and waste storage and disposal systems. This flexibility allows us to efficiently meet individual demand levels and special requirements.

Clean air and negative pressure benefits

Our clean-air fans protect against abrasive dust damage to the fans. With our negative pressure extraction chambers air is 'drawn through' the filter chamber rather than blown in under pressure dust sealing is 100%. Even if there were a void in a seal it would simply draw air in at that point – not expel dust. This also makes sealing to waste bins simple and effective.



Energy saving options



Keen to save Energy? MICRONAIR's OPTI-FLOW system delivers savings typically around 50%. At the heart is a Variable Speed Drive to automatically monitor and optimize airflow in the extraction trunks. This can be combined with manual shut-off gates or OPTI-FLOW electric auto gates linked to the machines power supply.

Australian designed and manufactured

MICRONAIR design and manufacture our Extractors here in Australia and have a 15 year track record and experience in this market. In addition to Extractors we supply a full Ducting design and install service.



Our basis for selection. A professional calculation

Our specialized software is the basis for our Extractor Model and Fan & Motor selection. It performs its calculation based on the machines to be connected, their simultaneous use (%) and their individual airflow and air-speed requirements. From this the optimal main trunk diameter is also calculated. It is important this is correct!



Built to perform, built to last. Inside or outside.

Galvanized steel panels, powder coated for extra corrosion protection. Stainless steel fittings. Laser cut precision for air-tight assembly. A dedicated and specialized Production Team. It all adds up to a professionally built Extractor equally at home inside or outside your workshop.

High efficiency fans and motors.

We carefully source our Fans and Motors for their excellent pressure: volume performance curves and we use only MEPS Certified Motors (Australian Legal Requirement) High efficiency close tolerance fan blade designs maximize performance while minimizing noise and power consumption.



VIBRA-CLEAN

VIBRACLEAN models clean the Filter Cartridges automatically when the Extractor shuts down. No Operator intervention needed! This 'off-line' cleaning suits applications with light to medium dust loads. Large volumes of dust laden air are handled with a minimal Extractor footprint thanks to the large filter

areas achieved through the pleated profile. The efficient Vibration 'shake' cycle can be varied in duration and intensity plus start delay to suit your application.



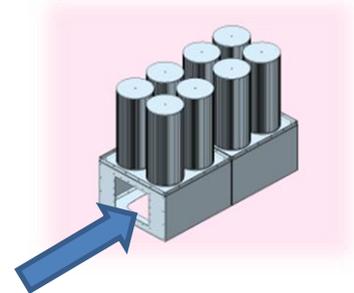
VC16 with dump bin
Outside location

*Inside a VC4S
 showing filter detail*



The Cartridge filters are tough spun bonded Polyester with a filtration capability below 1 Micron (1/1000th of a Millimeter!) to ensure a clean, safe working environment. They are encased in heavy perforated metal cylinders to maintain shape and prevent large waste particles entering the pleats. Durable and

washable – these Cartridges offer you a long and efficient service life. Dirty air enters an expansion chamber below the filters which immediately and effectively separates the heavier waste straight into the collection bins and then circulates the fines downwards in a spiral motion over the filters. This is a very important advantage as it stops these fines being entrained in the filters.



It all works!

Keeping things quiet

Our efficient Rockwool lined Industrial Silencer is standard. The discharge direction can be chosen to suit the site – horizontal, vertical – connected to external venting of the exhaust etc. This system is rated at 84dba at 3m.



Where even quieter outputs are required we offer a range of custom designed boosted silencers.



VIBRA-CLEAN

Wheelie Bins – quick and easy

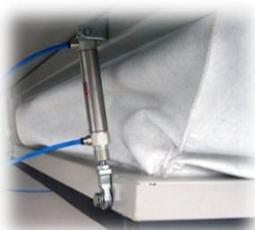
Our wheelie bin system ensures simple efficient waste collection and feature our ‘quick-lock’ release and replace system. This is based on location guides and an effective Cam Lock that takes the guess work out of Bin alignment.

The bins can be used with or without bin liners.
Standard bin size is 240 liter with other sizes on request.



Dump Bins for larger volumes

When waste volumes are higher our Dump Bin system is the answer. The ‘quick fit’ pneumatically operated seal is designed to fit your choice of Dump-Bin from 1.5 to 3 cube with larger sizes on request. Bins are released and resealed at the flick of a switch.



Waste Transfer systems and continuous extraction bin changes.

When you want to transfer waste to a remote collection point we can supply a range of blower and auger transfer options. We also supply Rotary valves and hoppers with slides for continuous operation even during bin changes.



You’re in Control

An automatic Star /Delta (soft start) of the fan via manual control switch is standard supply. The auto timer ensures the filters are cleaned by high frequency vibration only after the fan has come to a complete stop. Duration of the cleaning cycle and this time delay is fully variable to fine tune the system to your workshop needs.



Optional Energy (money!) saving Controls



A VSD (Variable Speed Drive) is the best way to control a fan motor as there is great flexibility with parameters to control start up, power overload control and the speed of the fan all of which greatly affect your electrical consumption.

VIBRA-CLEAN



Our **OPTIFLOW** purpose designed Controller automatically controls the fan speed to maintain constant flow in the duct while making very significant savings in electrical consumption.

The standard enclosure is fitted separately from the machine inside your factory. An enclosure suitable for outdoor positioning is available. Proprietary Controllers are built in for the Cleaning systems, A Start and Stop button is also fitted in addition to the fully programmable Keypad, Isolator Switch, pressure sensor and controller.

OPTIFLOW gates automatically shut off air-flow from your machinery outlets when the machine is shut down. They don't rely on your operators remembering to do this. And they open them again automatically on start-up too. This increases system efficiency dramatically. Air-flow is closed in a controlled way via an electric motor drive. No sudden 'shut-offs' like pneumatic gates which cause duct work stress and even collapse.



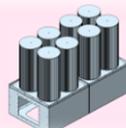
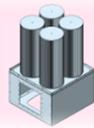
OPTIFLOW *Reliable, efficient and automatic - with a rapid payback of your investment.*

MODELS

	VC4S	VC4	VC8S	VC8	VC12	VC16	VC24
Filter cartridges	4 short	4	8 short	8	12	16	24
Filter area sq. meters	34	68	68	136	204	272	408
Height mm <small>Approximate: depends on bin selection</small>	3200	4250	3400	4400	5250	5250	5250

FAN PERFORMANCE

(Typical examples - others available for specific applications)



Power KW	5.5	7.5	11	15	18.5	22	30	45	55
AIRFLOW cubic m/hour	2100	5500	7900	11000	9900	15200	16350	23110	26347
	to	to	to	to	to	to	to	to	to
	3230	8200	10045	14000	20000	31400	34200	47820	54514
PRESSURE Pascal's	3800	2850	2700	2900	2000	1460	1723	1365	1760
	to	to	to	to	to	to	to	to	to
	4300	3250	3400	3500	5400	3937	4650	3684	4752

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