

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

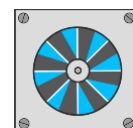


**Flexible design means better results**

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 built**

MICRONAIR design and build 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.



## CLEAN-FLOW



CF30 CF42



CF84



CF126

**CLEANFLOW** continuously and progressively cleans the banks of Filters while the Extractor is operating. This 'on-line' cleaning eliminates any need to shut your machines down while maintaining the same high filter performance throughout the working day. This makes them ideal for heavy duty applications with high dust loads.

**ULTRAFLOW** technology used in all Cleanflow models outperforms other Reverse Pulse systems. The 'reverse pulse' of compressed air is very small compared with the total volume of dusty air entering the collector. High-tech valves open and close in 1/10<sup>th</sup> of a second. This quick action reduces compressed air consumption but with a more aggressive pulse that travels down the filter evenly and effectively.

The short cleaning cycle reduces re-deposition of dust and provides more complete cleaning and reconditioning of bags than shaker or reverse-air cleaning methods. In addition, the continuous cleaning allows the filters to operate at higher air-to-cloth ratios, minimizing space required.



## ULTRA-FLOW

### The best filters

We use 550 gram 'antistatic' filter material (carbon fiber impregnated) in our filters. We combine this with a pre-entry chamber to effectively separate the heavier waste straight into the collection bins and then circulate 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. With a filtration capability below 1 Micron (1/1000<sup>th</sup> of a Millimeter!) you ensure a clean, safe working environment.



### Keeping an eye on things

The Magna-helic Gauge tells you at a glance the degree of caking of dust on the filters. Alerting you immediately if a more aggressive cleaning cycle needs to be set.

**It all works!**

[www.micronair.com.au](http://www.micronair.com.au)

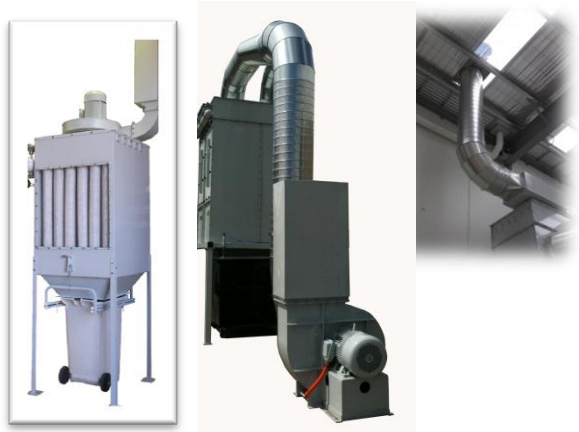
**CLEAN-FLOW**

**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.



**Wheelie Bins – quick and easy**

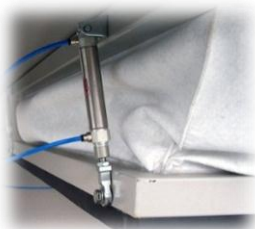
Our wheelie bin system ensures simple efficient waste collection and feature our ‘quick-lock’ release and replace system. This is based on location guides and an effective Cam Lock that takes the guess work out of Bin alignment.

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**

Cleanflow incorporates automatic star delta start up (soft start) of the fan with touch control activation. The control box includes an automatic electronic timer to ensure the filters are cleaned in sequence. The duration of this cleaning cycle is fully adjustable to fine tune to your workshops 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 and the speed of the fan all of which greatly affect your electrical consumption.



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.

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**

	<b>CF12</b>	<b>CF30</b>	<b>CF30L</b>	<b>CF42</b>	<b>CF63</b>	<b>CF84</b>	<b>CF126</b>
<b>Filters</b>	<b>12</b> short	<b>30</b> short	<b>30</b>	<b>42</b>	<b>63</b>	<b>84</b>	<b>126</b>
<b>Filter area sq. meters</b>	<b>5</b>	<b>13</b>	<b>24</b>	<b>34</b>	<b>51</b>	<b>67</b>	<b>101</b>
<b>Height mm</b>	<b>3400</b>	<b>3600</b>	<b>4200</b>	<b>4200</b>	<b>4600</b>	<b>4600</b>	<b>5200</b>

Approx.-: depends on bin selection

**FAN PERFORMANCE (Typical examples - others available for specific applications)**

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

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