



# The health hazards of that "print shop smell"



Air purification that stops the **stink of the ink!**

Long considered just "part of the job", pervasive chemical fumes associated with wide-format printing can have serious and irreversible health consequences. When inhaled or absorbed through the skin, exposure can have immediate effects, or can have consequences years into the future.

**Short term exposure** may result in employees complaining of headaches, fatigue, nausea, dizziness and skin rashes.

**Repeated long-term exposure** may cause damage to the lungs, liver, central nervous system and may cause **CANCER**.



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1-800-480-3630 [www.berriman.com](http://www.berriman.com)

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## 6000 PrintSafe DX

Air Flow Rate (rated)	400
Air Flow Rate (delivered)	52, 94,148
Speed Control	3 speed
Pre-filter > 10 microns	yes
HEPA Filter 0.5 micron	wrap
Refillable Carbon Filter	yes
Carbon Content	36 lbs.
Height	22.5"
Diameter	15"
Operating Weight	66 lbs.

## 5000 Vocarb 5000 D Vocarb 5000 DX Vocarb

	5000 Vocarb	5000 D Vocarb	5000 DX Vocarb
Air Flow Rate (rated)	400	400	400
Air Flow Rate (delivered)	45, 85,125	48, 90,130	45, 85,125
Speed Control	3 speed	3 speed	3 speed
Pre-filter > 10 microns	yes	yes	yes
HEPA Filter	1" pleated	wrap	wrap
Refillable Carbon Filter	yes	yes	yes
Carbon Content	18 lbs.	24 lbs	27 lbs.
Height	19.5"	19.5"	19.5"
Diameter	15"	15"	15"
Operating Weight	49 lbs.	54 lbs	57 lbs.



**I-6500 - Can be either**  
**- Stand alone recirculating**  
**- Ductable**



	I-6500A	I-6500B
Air Flow Rate (delivered)	250-900	250-900
Speed Control	2-speed	2-speed
Pre-filter > 10 microns	yes	yes
HEPA filter > 0.3 microns	yes	yes
Refillable Carbon Filter	yes	yes
Carbon Content	160 lbs	80 lbs
Height	70"	48"
Width	21"	21"
Length	24.5"	24.5"
Operating Weight	340lbs.	250lbs

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## Air purification stops the stink of the ink!



**RAPS - Stand alone recirculating**

	<b>RAP204CC</b>	<b>RAP24CC</b>	<b>RAP48CC</b>
Air Flow Rate (delivered)	up to 350	250-900	500-1800
Speed Control	Variable	Variable	Variable
Pre-filter > 10 microns	yes	yes	yes
Refillable Carbon Filter	yes	yes	yes
Carbon Content	30 lbs.	60 lbs.	120 lbs.
Height	25"	37"	62"
Diameter	12"	22"	22"
Operating Weight	49 lbs.	140 lbs.	260 lbs.

- RSU - Can be either**
- **Stand alone recirculating**
  - **Ductable**
  - **Air flow direction reversible**

	<b>RSU24CC</b>	<b>RSU48CC</b>
Air Flow Rate (delivered)	250-900	500-1800
Speed Control	Variable	Variable
Pre-filter > 10 microns	yes	yes
Refillable Carbon Filter	yes	yes
Carbon Content	60 lbs.	120 lbs.
Height	39.5"	71"
Diameter	20"	20"
Operating Weight	119 lbs.	210 lbs.



## SSU-3

The SSU-3 can be configured with up to two three-layer filter banks, each containing eight refillable cartridges for a possible total of 1128 lbs. of carbon and a maximum of 5000 delivered CFM. Air flow may also be customized with contaminated air drawn laterally through all four sides of the filter cartridges and exiting at the top, or can be reversed to allow the unit to be ducted at the top, with the air exiting laterally.

## The power of activated carbon

Used in military gas masks, activated carbon is an extremely porous substance capable of adsorbing and permanently trapping serious airborne chemicals, fumes, gases and odors. The effectiveness of carbon is based on dwell time. The larger and deeper the carbon bed, the more time toxins have to linger in the filter and be adsorbed.



## Added HEPA filtration

Units with advanced HEPA filtration are capable of trapping at least 99.97% of all airborne particles to 0.3 microns. According to Harvard's School of Public Health the most dangerous particles are 10 microns or less in size. Ink, toner, paper, ozone and fusing oil micro droplets are the main causes of particle pollution in a printing environment.

### **Volatile Organic Compounds (VOC's)**

Produced by inks and other materials used in printing. Many are carcinogenic. VOC's may continue to linger in the air even days after a job is complete.

### **Ozone**

Produced by laser printers. Even when a machine is fitted with an "ozone guard" it may continue to off-gas, especially machines in need of repair, or those in a poorly ventilated rooms.

### **Fine particles**

Particles are not only irritating to the respiratory system but can penetrate deep into the body. Both paper and print-shop chemicals produce fine respirable particles that may cause short-term respiratory problems or more serious long-term illnesses.