

# PRINTING & 3D PRINTING

## FUME EXTRACTION

PrintPRO and 3D PrintPRO range

### Applications - Printing

Flags, banners & posters  
Direct to fabric  
Dye sublimation  
UV printing  
Solvent ink

Mid solvent ink  
Low solvent ink  
MEK  
Flexographic printing  
Letter press plates

Digital flexo plates  
UV coating  
Inkjet printing  
Screen printer

### Applications - 3D Printing

Stereolithography  
Digital light processing  
Continuous digital light processing  
Fused filament fabrication  
Material jetting  
Nano particle jetting

Drop on demand  
Binder jetting  
Multi jet fusion  
Selective laser sintering  
Direct metal laser sintering  
Selective laser melting

Electron beam melting  
Laser engineering net shape  
Electron beam additive manufacturing  
Laminated object manufacturing



BOFA's range of PrintPRO and 3D PrintPRO print fume extraction systems are designed for applications that generate particulate and gaseous organic compounds within the wide and super-wide printing sector. Solutions are available for a variety of ink types including: solvent, UV and dye sublimation.

**FEATURED PRODUCT – BEST IN CLASS**



**PrintPRO Universal**

The flagship product in our printing range, the PrintPRO Universal is a compact unit with a large gas filter. It is designed exclusively for the print and print finishing industries with unique features to effectively capture and remove a wide range of solvents generated within these environments, including MEK, ketones and ozone from UV applications.

The unit is easily adapted to a huge range of environments, including wide format printing, inkjet coding printers (CIJ) (both solvent and UV) and numerous mailroom applications such as UV coating, hot melt glue binding and mailwrap polywrapping.

**Standard features**

- Long life, low cost replacement filters
- High airflow pressure rates
- Advanced carbon filter technology

*For optional features - see page 37*

Easily adapted to a huge range of print environments.

**OEMs**  
Find out more about how we work with OEMs on page 10

**DISTRIBUTORS**  
Find out more about how we work with distributors on page 10

**END USERS**  
Find out more about how we work with end users on page 10

# PRINTING & 3D PRINTING FUME EXTRACTION

PrintPRO and 3D PrintPRO range

## PRINTING



### PrintPRO Universal *Featured product - see page 31*

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**Approvals** CE | cUL | UL

**Dimensions** 625 x 385 x 525mm  
24.60 x 15.16 x 20.67"

**Airflow/Pressure** 380m<sup>3</sup>/hr / 96mbar  
223cfm / 96mbar

**Technology**



**Datasheet download**

[bofainternational.com/printpro-universal](http://bofainternational.com/printpro-universal)



### PrintPRO 500 iQ / 1000 iQ / 1500 iQ

These mid to high end extraction systems combine extremely large filter capacity with high airflow and pressure rates, making it the ideal choice for heavy duty applications that generate large amounts of particulate and gaseous organic compounds.

**Approvals** CE | cUL | UL

**Dimensions** 1205 x 615 x 790mm  
47.44 x 24.22 x 31.10"

**PrintPRO 500 iQ**  
**Airflow/Pressure** 550m<sup>3</sup>/hr / 100mbar  
324cfm / 100mbar

**PrintPRO 1000 iQ**  
**Airflow/Pressure** 850m<sup>3</sup>/hr / 100mbar  
500cfm / 100mbar

**PrintPRO 1500 iQ**  
**Airflow/Pressure** 1250m<sup>3</sup>/hr / 100mbar  
735cfm / 100mbar

**Technology**



**Datasheet download**

[bofainternational.com/printpro-500-iq](http://bofainternational.com/printpro-500-iq)  
[bofainternational.com/printpro-1000-iq](http://bofainternational.com/printpro-1000-iq)  
[bofainternational.com/printpro-1500-iq](http://bofainternational.com/printpro-1500-iq)



### PrintPRO 2000 iQ

The PrintPRO 2000 iQ fume extraction unit packs a heavyweight punch with the unsurpassed filter capacity of two DeepPleat DUOs and high performance for the printing industry.

Its technology is proven to deliver superior and measurable performance, ensuring airflow and filtration is maintained even when particulates start to build up. Its high vacuum and pressure makes it suitable for the most demanding and complex installations, so you can rely on extended filter life, together with effective removal of fumes, solvents and particulates.

It's user friendly too, with a design that makes easy work of filter changes. The easy to read and access control display panel is conveniently located on top of the unit. The PrintPRO 2000 iQ's design also permits greater flexibility of different exhaust installations and configurations allowing recirculation via the rear panel or externally vented hose connection systems.

**Approvals** CE

**Dimensions** 1280 x 1360 x 1005mm  
50.39 x 53.54 x 39.57"

**Airflow/Pressure** 2500m<sup>3</sup>/hr / 96mbar  
1470cfm / 96mbar

**Technology**



**Datasheet download**

[bofainternational.com/printpro-2000-iq](http://bofainternational.com/printpro-2000-iq)

OUR LEADING TECHNOLOGY



**PRODUCT FEATURES**

Comparison table on page 37



**PrintPRO 4000**

BOFA's PrintPRO 4000 print fume extraction unit combines large filter capacity with high airflows.

This is our high end fume extraction and filtration system and has been purposely designed to filter the fumes generated by printers. It combines extremely large filter capacity with high airflows and pressure. It is ideal for heavy duty applications that generate large amounts of particulate and gaseous organic compounds.

Easily accessible filters are accommodated by the uniquely styled 'clam shell' and 'gull winged' doors, which allow for maximum space and ease when changing filters.

Unit interfaces such as stop/start and system failure are available as options.

**Approvals** CE

Dimensions 1475 x 1450 x 1500mm  
58 x 57 x 59"

Airflow/Pressure 4000m<sup>3</sup>/hr / 30mbar  
2354cfm / 30mbar

**Technology**



**Datasheet download**

[bofainternational.com/printpro-4000](http://bofainternational.com/printpro-4000)

**DYE SUBLIMATION**



**PrintPRO Oracle DS**

The PrintPRO Oracle DS is our mid to high end fume extraction and filtration system. It has been purposely designed to filter the fumes generated from dye sublimation printers and combines extremely large filter capacity with high airflows and pressure. This combination makes it ideal for heavy duty applications that generate large amounts of particulate and gaseous organic compounds.

The additional feature of BOFA's 'easi-seal' filter location mechanism makes filter change easy, quick and safe. A truly state of the art print fume purification solution.

**Approvals** CE

Dimensions 955 x 430 x 475mm  
37.60" x 17 x 18.70"

Airflow/Pressure 380m<sup>3</sup>/hr / 96mbar  
223cfm / 96mbar

**Technology**



**Datasheet download**

[bofainternational.com/printpro-oracle-ds](http://bofainternational.com/printpro-oracle-ds)



**PrintPRO 400 DS / 800 DS / 1200 DS**

These mid to high end fume extraction and filtration systems have been purposely designed to filter the fumes generated from dye sublimation printers. A hydrophobic HEPA filter is fitted as standard and an optional gas filter can be fitted as required.

These extraction systems combine extremely large filter capacity with high airflows and pressure, making it ideal for heavy duty applications that generate large amounts of gaseous organic compounds.

The coalescing filters trap glycol mist and combine it into larger droplets. These droplets then drip away from the filter when the extractor is stopped due to its reverse flow design. An automatic drain located in the base of the unit opens as soon as the extractor stops, allowing the glycol to exit the machine and be collected in a tray.

The 'easi-seal' filter location mechanism makes filter change easy, quick and safe.

**Approvals** CE

Dimensions 1205 x 615 x 790mm  
47.44 x 24.22 x 31.10"

PrintPRO 400  
Airflow/Pressure 400m<sup>3</sup>/hr / 100mbar  
235cfm / 100mbar

PrintPRO 800  
Airflow/Pressure 800m<sup>3</sup>/hr / 100mbar  
470cfm / 100mbar

PrintPRO 1200  
Airflow/Pressure 1200m<sup>3</sup>/hr / 100mbar  
705cfm / 100mbar

**Technology**



**Datasheet download**

[bofainternational.com/printpro-400-ds](http://bofainternational.com/printpro-400-ds)  
[bofainternational.com/printpro-800-ds](http://bofainternational.com/printpro-800-ds)  
[bofainternational.com/printpro-1200-ds](http://bofainternational.com/printpro-1200-ds)



# PRINTING & 3D PRINTING FUME EXTRACTION

PrintPRO and 3D PrintPRO range

## 3D PRINTING



### 3D PrintPRO 2

The 3D PrintPRO 2 is a low cost unit which extracts fumes generated by the printer without causing the filament deposition area to be cooled.

It has the benefits of low noise level and minimal power consumption. Each unit is supplied with a connection hose, 'stay put' arm, conical shaped nozzle and 'print your own' plenum instructions.

For more information see page 35.

Approvals CE

Dimensions 330 x 290 x 270mm  
12.99 x 11.42 x 10.63"

Airflow 45m<sup>3</sup>/hr  
26.5cfm

Technology



Datasheet download  
[bofainternational.com/3dprintpro-2](http://bofainternational.com/3dprintpro-2)



### 3D PrintPRO 3

The 3D PrintPRO 3 incorporates an externally mounted plenum system which effectively captures fumes generated during the printing process and returns ultra clean, filtered air to the operator's breathing zone.

It has the benefits of low cost, low power consumption and integral speed control. Each filtration unit is supplied with connection hoses and 'print your own' plenum instructions.

For more information see page 35.

Approvals CE

Dimensions 400 x 290 x 300mm  
15.75 x 11.42 x 11.81"

Airflow 150m<sup>3</sup>/hr  
88cfm

Technology



Datasheet download  
[bofainternational.com/3dprintpro-3](http://bofainternational.com/3dprintpro-3)



### 3D PrintPRO 4

The 3D PrintPRO 4 provides a high fume extraction and filtration rate when connected to a large enclosed 3D printer via its extraction take off point. The system can also return the filtered clean air either back to the printer enclosure for a cleaner print area or to the operator's breathing zone.

It combines high flow rate with speed control within a compact free standing unit.

Approvals CE

Dimensions 670 x 375 x 410mm  
26.38 x 14.76 x 16.14"

Airflow 165m<sup>3</sup>/hr  
97cfm

Technology



Datasheet download  
[bofainternational.com/3dprintpro-4](http://bofainternational.com/3dprintpro-4)

#### HOW TO BUY BOFA

Go to page 10 to view our different buying options.

OUR LEADING TECHNOLOGY



iQ2  
Intelligent (iQ2)  
Operating System



iQ  
Intelligent (iQ)  
Operating System



DeepPleat  
DeepPleat  
pre filter



DeepPleat DUO  
DeepPleat DUO  
pre filter



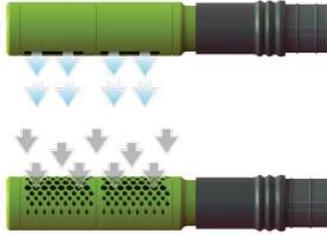
HEPA  
HEPA filter



ACF  
Advanced carbon  
filter technology

## PRODUCT FEATURES

Comparison table on page 37



### 'PRINT YOUR OWN' 3D MANIFOLDS

*The BOFA 3D manifolds for 3D printing are provided free of charge for you to print your own.*

The two manifolds are designed to work with the 3D PrintPRO 2 and 3 extraction systems, to provide an air delivery system on one side of the 3D printer, and an air extraction system on the other.

There are four parts to each of the manifolds: a connection spigot; the first end piece; a middle piece (which can be repeated to extend the manifold); and an end piece.

The air outlet has slots along the top of the manifold, allowing a clean band of ultra clean air to flood the open face of the printer.

The air inlet manifold has a open grill of hexagons sucking in the contaminated air, which will pull all the fumes and printing vapours away from the 3D printing area, allowing for a clean working environment and precise final print.

The end plug and connection spigots can be put on either end of the manifold and there is a choice of a straight or 90 degree bend spigot, to allow for correct positioning on the 3D printer.

[bofainternational.com/en/print-your-own](http://bofainternational.com/en/print-your-own)



### FILTER TECHNOLOGY

The PrintPRO and 3D PrintPRO ranges incorporate a range of specially treated carbon filters specifically designed for print fumes, foam sponge filters and cheaper pre filters and high efficiency HEPA filters to provide maximum long life filter capacity, operator safety and low cost of ownership. This combination provides complete filtration protection for any printing application.

For more information visit [bofainternational.com/filters](http://bofainternational.com/filters)

### ACCESSORIES

BOFA has an extensive selection of hose kits, including the free downloadable 'print your own' manifolds for 3D printing, (see above) which fit all types of applications and printing processes.

For more information, see page 58; contact your sales representative; or visit [bofainternational.com/accessories](http://bofainternational.com/accessories)



**RFA**  
Reverse flow air  
technology



**AFC**  
Automatic flow  
control technology



**SFT**  
SMART filter  
technology



**MVS**  
Multi voltage  
sensing unit



**PATENTED**  
Patented  
technology



**SureCHECK**  
SureCHECK quality  
standard



**PROTECT**  
ProTECT service  
plan

# PRINTING & 3D PRINTING FUME EXTRACTION

PrintPRO and 3D PrintPRO range

## Work with BOFA to create the perfect solution for you...

The 3D printing and additive manufacturing industry is moving at a rapid pace with new materials and processes being tested and implemented all the time.

We already work with companies to create personalised and bespoke solutions, whether they are stand alone; ride on; or integrated solutions.

### PERSONALISED SOLUTIONS

#### Product customisation

Speak to our experts about your specific requirements and how we can work with you to create the perfect system to complement your product.

- Sockets and connectors
- VOC sensor
- Compressor
- Air conditioner

#### Customisable controls and communications

- Universal voltage system – one part number worldwide
- Auto start/ stop
- Overrun
- Warnings and alarm outputs

#### Customised branding

Standard BOFA unit  
+ product branding  
+ your specific paint colour  
+ accessories  
+ spare filters  
+ hose kit

### BESPOKE SOLUTIONS

#### Unique products

Working with BOFA you'll have access to our unrivalled expertise to develop bespoke, personalised solutions.



Unit, filters and accessories, specific to your requirements.

OUR LEADING TECHNOLOGY



iQ2  
Intelligent (iQ2)  
Operating System



iQ  
Intelligent (iQ)  
Operating System



DeepPleat  
DeepPleat  
pre filter



DeepPleat DUO  
DeepPleat DUO  
pre filter



HEPA  
HEPA filter



ACF  
Advanced carbon  
filter technology

# PRODUCT FEATURES

## Comparison table

	PrintPRO Universal	PrintPRO 500 IQ	PrintPRO 1000 IQ	PrintPRO 1500 IQ	PrintPRO 2000 IQ	PrintPRO 4000	PrintPRO Oracle DS	PrintPRO 400 DS	PrintPRO 800 DS	PrintPRO 1200 DS	3D PRINTING		
											3D PrintPRO 2	3D PrintPRO 3	3D PrintPRO 4
STANDARD FEATURES	Brushless motor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Filter condition indicator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	High airflow & pressure rates	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Long life, low cost replacement filters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MEK carbon	✓	✓	✓	✓	✓							
	Small footprint	✓									✓	✓	✓
	Digital speed control	✓										✓	✓
	'Easi-seal' filter location		✓	✓	✓	✓	✓	✓	✓	✓			
	Auto sensing voltage (90-257V) for global use	✓					✓				✓	✓	
	Automatic flow control system		✓	✓	✓	✓	✓	✓	✓	✓			
	Intelligent (iQ) Operating System		✓	✓	✓	✓							
	Lockable castors	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
	Fluid collection tray						✓	✓	✓	✓			
	Reverse flow air technology		✓	✓	✓	✓		✓	✓	✓			✓
	ProTECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SureCHECK quality standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	CE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	UL	✓	✓	✓	✓								
	cUL	✓	✓	✓	✓								
	OPTIONAL FEATURES	VOC gas sensor	✓	✓	✓	✓	✓	✓	✓	✓			
Remote stop/start interface		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Filter change/system fail signal		✓	✓	✓	✓	✓	✓	✓	✓	✓			
2 sponge filter version								✓	✓	✓			
Larger silencing inlet/outlet boxes		✓											



RFA  
Reverse flow air technology



AFC  
Automatic flow control technology



SFT  
SMART filter technology



MVS  
Multi voltage sensing unit



PATENTED  
Patented technology



SureCHECK  
SureCHECK quality standard



PROTECT  
ProTECT service plan