




# Installation and Operating Manual

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**Model F1000C**  
**Model F1000PG**  
**Model F1020C**  
**Model F1020PG**

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## Safety Warnings

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For safe and successful operation of this equipment, please read this user guide completely. If the instructions stated herein are not observed or followed, the manufacturer cannot assume responsibility for any harm or damage to the operator or equipment. Please retain this manual for future reference.

Always disconnect the power supply before servicing the equipment.

Do not operate this equipment without filter inserts as contaminants in the extracted air will damage the blower. Use only filters recommended or supplied by IP Systems.

The F1000 series is designed for the removal of fumes and gases only. Consult your company's Safety Department when using this equipment for filtering flammable gases. This equipment is not explosion safe and can **only** be used for the extraction of vapors that have concentration level well below the lower explosive limit.

Consult your Safety Department if the concentration level of fumes exceed the permissible "safety limit" as set by your local authority in order to ensure that the equipment is adequate for your application.

The blower motor of this equipment is protected with an automatic thermal overload device and will restart automatically after the motor has cooled down.

This equipment is to be repaired only by IP Systems or its authorized Service Representative while it is under warranty.

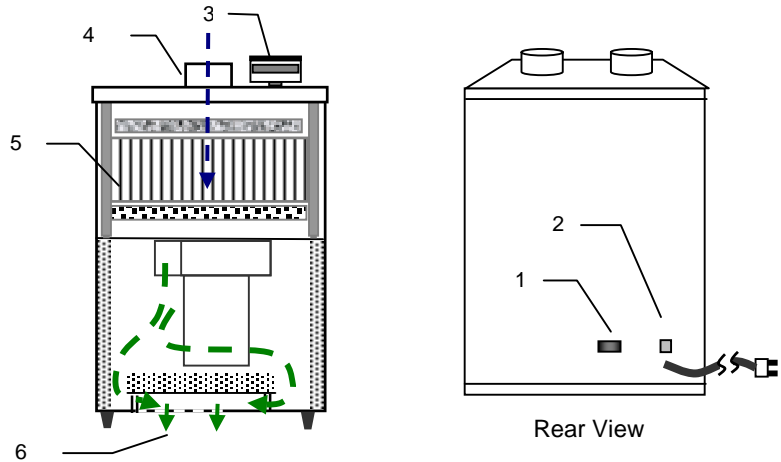
## Items supplied

- 1 - Filter unit with filters installed
- 1 - User Guide

## Description

### Parts and Functions

- (1) On / Off switch
- (2) Circuit breaker and power cord
- (3) Filter Monitor
- (4) Air inlets
- (5) Filters
- (6) Air outlet

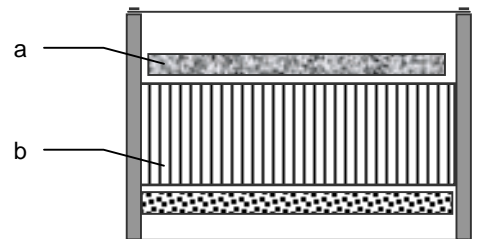


Model Number	Power Supply	Filtration
F1000C / F1020C	115 VAC, 60 Hz	Pre-filter / HEPA filter / Carbon Mats
F1000PG / F1020PG	115 VAC, 60 Hz	Pre-filter / HEPA filter / Bulk Carbon

*HEPA = Highly Efficient Particulate Arrestor*

The filtration for Models F1000C and F1020C consists of:

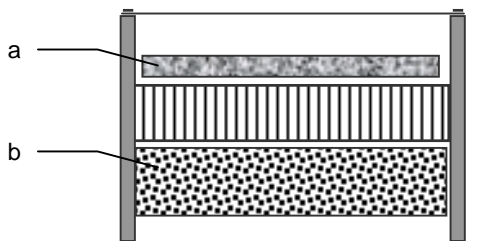
- (a) Pre-filter mat
- (b) a Combination-filter in a single frame containing:
  - a HEPA-filter for the removal of particulates
  - and a gas-filter (carbon mats)



The filtration is configured for the removal of solder and most laser fumes which have a high particulate content.

The filtration for Models F1000PG and F1020PG consists of:

- (a) Pre-filter mat
- (b) a Combination-filter in a single frame containing:
  - a HEPA-filter for the removal of particulates
  - and a deep-bed gas-filter consisting of bulk carbon. The bulk carbon can be refilled.



The filtration is configured for the removal of fumes which contain particulates and higher levels of vapors, gases and strong odors.

**⚠** For use on "flammable" gases refer to "Safety Warnings" above.

## Installation

### Set-Up

- Position equipment in the work area and make sure there is ample access to the unit for filter maintenance.
- Connect extraction hoses to the air inlets.
- Connect the power cord to the equipment and to a grounded wall socket.
- Follow operating and maintenance procedures stated in this user guide.

## Operation

**⚠** Do not operate the equipment without installing filters. Unfiltered air contaminants may damage motor bearings and other components. Use only factory recommended filters.

- Turn the equipment ON / OFF with switch (1) located at rear of unit.
- Observe the filter condition on Filter Monitor (2)

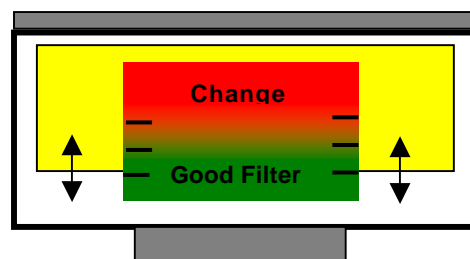
## Maintenance

### Filter Replacement Timing

Turn unit on and observe the position of the yellow colored diaphragm in the filter monitor. The position of the diaphragm in relation to the green - red label on the filter monitor indicates the filter condition of the particulate filters.

It is time to change filters:

- when the yellow colored diaphragm no longer aligns with the green marking on the label
- or when an odor is noticeable in the exhaust air.



Change pre-filter first and turn the unit ON again. If the yellow diaphragm remains near or in the "red" mark, also replace the HEPA / Carbon filter.

### Filter Replacement Procedure

- Turn equipment off and disconnect the power source
- Unlatch the lid of the filter unit
- Remove the lid and filters
- Replace filters
- Place lid back on and close the latches
- Reconnect to power source and turn unit on

*Always use new replacement filters from the original manufacturer! Do not try to clean the filters!*

### Filter Disposal

Keep "used" filters in disposable bags or closed containers to avoid contamination of other areas. While the filter material is none-hazardous, the contaminants captured inside the filter may be hazardous. Please consult the MSDS sheets for the material used at your facility and follow the prescribed handling instructions. Follow your local regulations for disposal of used filters.

## Troubleshooting

Problem	Possible Cause	Check and Correction
Equipment does not turn on	No power	Check ON / OFF switch Check power cord connections and integrity Check circuit breaker (at rear of unit) Automatic thermal overload stopped the motor. Wait until motor has cooled down.
Minimum air flow	Air leak	Check lid for properly closure and latching
	Air blockage	Check extraction hose for any blockage Check filter monitor for filter saturation

## Technical Data

<b>Model No.</b>	<b>F1000C</b>	<b>F1000PG</b>	<b>F1020C</b>	<b>F1020PG</b>
Fan capacity	300 cfm	300 cfm	250 cfm	250 cfm
System capacity	200 cfm	200 cfm	150 cfm	150 cfm
Max. Static Pressure	3" WG	3" WG	5" WG	5" WG
HEPA efficiency	H11 (DIN EN 1822)	H11 (DIN EN 1822)	H11 (DIN EN 1822)	H11 (DIN EN 1822)
Power supply	115VAC, 60 Hz	115VAC, 60 Hz	115VAC, 60 Hz	115VAC, 60 Hz
Motor power (input)	300 Watt	300 Watt	300 Watt	300 Watt
Noise level *	58 dBA	58 dBA	58 dBA	58 dBA
Dimensions (w/d/h mm)	13.5" / 12.5" / 20"	13.5" / 12.5" / 20"	13.5" / 12.5" / 20"	13.5" / 12.5" / 20"
Weight, approx.	33 lbs	40 lbs	33 lbs	40 lbs

\* Notice: The noise level varies with number of exhaust ports in use or amount of airflow.

## Part Numbers

### Filter Units

F1000C	Filter Unit Pre / HEPA / Gas (carbon mats), 200 cfm, 115VAC/ 60Hz
F1000PG	Filter Unit Pre / HEPA / Gas (bulk carbon), 200 cfm, 115VAC/ 60Hz
F1020C	Filter Unit Pre / HEPA / Gas, 150 cfm, 115VAC/ 60Hz
F1020PG	Filter Unit Pre / HEPA / Gas (bulk carbon), 200 cfm, 115VAC/ 60Hz

### Replacement Filters

Fil0088	Pre-filter mat, 0.5" thick (5/ pack)
Fil0087	Combination Filter HEPA – Carbon Mats (Model F1000C and F1020C)
Fil0089	Combination Filter HEPA – Bulk Carbon (Model F1000PG and F1020PG)

## Warranty

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IP Systems warrants the F1000 Series against any defects in materials or workmanship for one (1) year from the date of purchase by the original owner. This warranty excludes filters, normal maintenance, and shall not apply to any opened, misused, abused, altered or damaged items. If the product should become defective within the warranty period, IP Systems will repair or replace it free of charge at its sole discretion. The repaired or replacement item(s) will be shipped, freight prepaid, to the original purchaser. The warranty period will start from the date of purchase. If the date of purchase cannot be substantiated the date of manufacture will be used as the start of the warranty period.

For repair or return of the equipment anytime, a Return Material Authorization Number (RMA #) must be obtained from IP Systems. Customer ships to factory "freight prepaid" – "collect" shipments are not accepted. IP Systems pays for return freight.

## Contact Information

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For Sales and Customer Care

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