

# Extract-All™

An exclusive Air Impurities  
Removal Systems, Inc. brand

## Extract-All™ Source Capture Air Cleaning System Model 981 Series



Super Versatile Extract-All™  
Model 981 Series  
Compact Air Cleaning System

The Extract-All™ Model 981 compact air cleaning systems gives you a safer, healthier workplace by capturing air contaminants directly at the source and safely removing them before clean air is released into the room. Each unique air cleaning system is designed for:

- Lab fume & dust
- Soldering
- Light welding
- Cleaning with solvents
- Paint & ink spraying
- Wire stripping
- Art restoration & conservation
- Clean room applications
- Small grinding operations
- Dental grinding
- Jewelry grinding & buffing
- Glue spraying
- Sanding operations
- Laser printing
- and numerous other applications which create airborne contaminants

## Extract-All™ Model S-981-2B Bench Mount System

The Extract-All™ Model S-981-2B Bench Mount System is a heavy duty, self-contained, recirculating air cleaner which captures air contaminants directly at the source and safely removes them before clean air is released into the room. The filtered air results in optimal working conditions and higher productivity in the workplace, with lower costs in energy and housekeeping.

Each Extract-All™ system comes with two sets of mounting brackets to attach easily to table or bench-top, with the filter extending above or below.

Filter options include a two stage polyester prefilter/high efficiency cartridge designed to handle smoke, dust, and mist. Along with optional H.E.P.A. filters for “absolute filtration” and refillable adsorption modules for gaseous fumes, the system provides the versatility to solve most contaminant problems.



## Extract-All™ Model SP-981-2B Portable System

The Extract-All™ Model 981 Series Air Cleaner is available as a portable system (Model SP-981-2B), by integrally mounting it on a castor base cabinet assembly. The portability of this system makes it ideal to use in general applications and locations, including difficult to reach places.

When using the portable cabinet assembly, optional third stage filtration may be used simultaneously with the standard two stage set up. Choices include the following:

- First stage - 2 ply, multi-density polyester pad  
Second stage - High efficiency cartridge filter  
Third stage - Refillable 2" D adsorption module
- First stage - 2 ply, multi-density polyester pad  
Second stage - Ultra efficiency H.E.P.A. filter  
Third stage - Refillable 2" D adsorption module
- First/Second stage - Refillable adsorption module/High efficiency cartridge filter  
Third stage - Refillable 2" D adsorption module
- First/Second stage - Refillable adsorption module/Ultra efficiency H.E.P.A. filter  
Third stage - Refillable 2" D adsorption module



# Specifications

**ORIENTATION:** Can be mounted horizontally or vertically.

**CABINET:** 18 gauge steel, polyurethane powder painted outside and inside.

**CABINET DIMENSIONS:**

12.5"W x 12.5"H x 19.5"D in horizontal position

12.5"W x 19.5"H x 12.5"D in vertical position

**WEIGHT:** Approximately 30 lbs. (Plus additional weight for filter options.)

**BLOWER:** 350W, 2.8 amps, 120/1/60, 2000 RPM, variable speed control, and power cord with plug.

**TYPICAL MOTOR LIFE:** 100,000 hours (depending on operating conditions, including ambient temperature, duty cycle, etc.).

**RATED FAN PERFORMANCE:** 350 CFM @ 0.5" E.S.P., 240 CFM @ 2.0" E.S.P., 100 CFM @ 2.75" E.S.P.

**VELOCITY AT EXTRACTOR ARM INLETS\*:** 3500 FPM per arm

**VELOCITY AT GRATED INLET\*\*:** 275 FPM

**NOISE LEVEL\*\*:** 66 dBA @ 6', 65 dBA @ 12'

\*Velocities are based on operation with a clean polyester panel prefilter and 95% ASHRAE efficient primary filter. Performance varies with other combinations.

\*\*Noise level is based on performance with 2 extractor arms and a clean polyester panel prefilter and 95% ASHRAE efficient primary filter. Noise levels may vary with other inlet and filter combinations.

All data has been obtained under controlled conditions. Variables occurring under actual working conditions may cause a slight variance to these specifications. In order to facilitate product improvements, specifications are subject to change without notice.

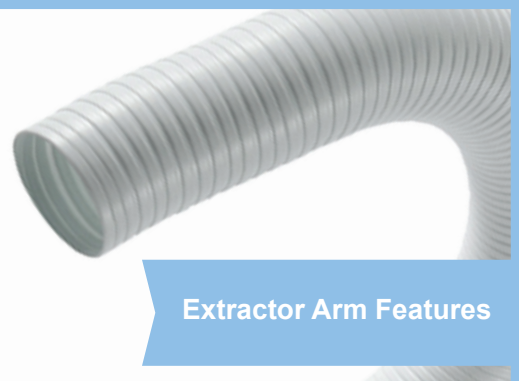
**FLEXIBLE:** Can be bent, twisted and turned easily without breaking.

**SELF SUPPORTING:** Rigid enough to retain its shape.

**EXPANDABLE:** Diameter can be increased to form a hood or decreased to form a nozzle simply by twisting hose by hand.

**HEAVY DUTY:** Polypropylene with flame retardant characteristics.

**DURABLE:** Chemical and abrasion resistant, and withstands temperatures from -40° F to 180°



Extractor Arm Features

- Each Extract-All™ S-981 and SP-981 series system comes with two arms, plus a cap to close off the unused inlet, if only one arm is desired
- Reach is expandable from 33" to 48"
- Can be flared at one end to make a 4.5" diameter hood or decreased to make a 2" diameter nozzle
- Extremely user friendly
- Tests show CFM is increased by up to 50% over internally supported arms

# Primary & Final Filter Options

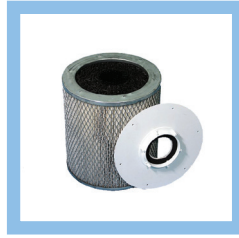
## PREFILTER/HIGH EFFICIENCY CARTRIDGE FILTER



No. F-981-1

Prefilter - 2 ply, Multi-density Polyester Media  
Efficiency: 30-35% per ASHRAE 52 Test Method.  
High Efficiency Cartridge Filter - 99.9% efficiency, using AC fine test dust.

## REFILLABLE HIGH EFFICIENCY FILTER ADSORPTION MODULE



No. F-981-2A  
No. F-981-2B

High Efficiency Cartridge Filter, with reusable perforated metal core, and filled with Activated Carbon (2A), or with Activated Alumina with Potassium Permanganate (2B).

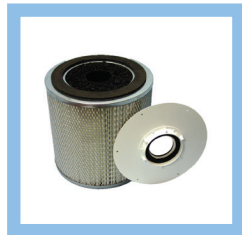
## PREFILTER / H.E.P.A. FILTER



No. F-981-3

Prefilter - 2 ply, Multi-Density Polyester Media.  
Efficiency: 30-35% per ASHRAE 52 Test Method.  
H.E.P.A. Filter - 99.97% efficiency using thermally generated Dioctylphthalate (DOP), with particles .3 micron or larger size as the challenge.

## REFILLABLE ULTRA EFFICIENCY FILTER ADSORPTION MODULE



No. F-981-4A  
No. F-981-4B

Ultra Efficiency H.E.P.A. filter, with reusable perforated metal core, and filled with Activated Carbon (4A) or with Activated Alumina with Potassium Permanganate (4B).

## FINAL STAGE REFILLABLE ADSORPTION MODULE FOR USE ON PORTABLE CABINET



No. F-981-5A  
No. F-981-5B

Refillable Adsorption Module filled with Activated Carbon (5A), or with Activated Alumina with Potassium Permanganate (5B).

\*Efficiency According to ASHRAE 52 Test Method. \*\*Efficiency at .3 Micron (D.O.P.) Test

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