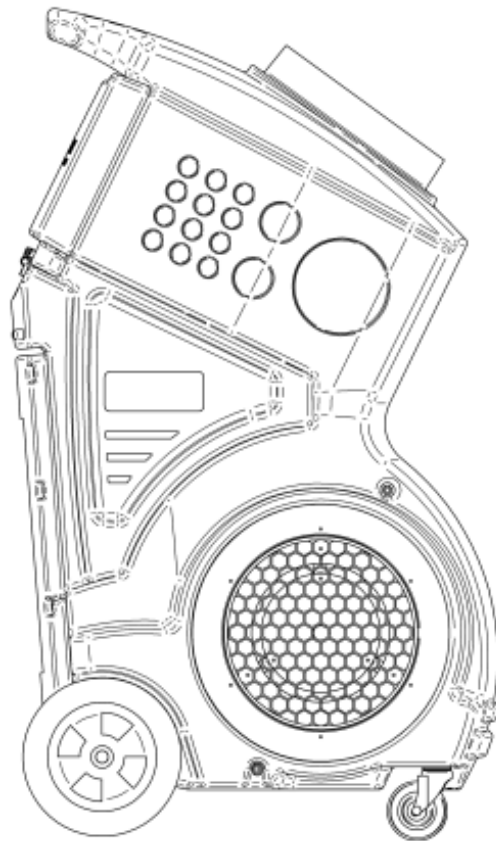


PREDATOR® 1200 Portable Air Scrubber
Model PRED1200UV
INSTRUCTION MANUAL



Patented - U.S. Design Patent No. D572,356

Abatement Technologies, Inc./Remediation Products Division

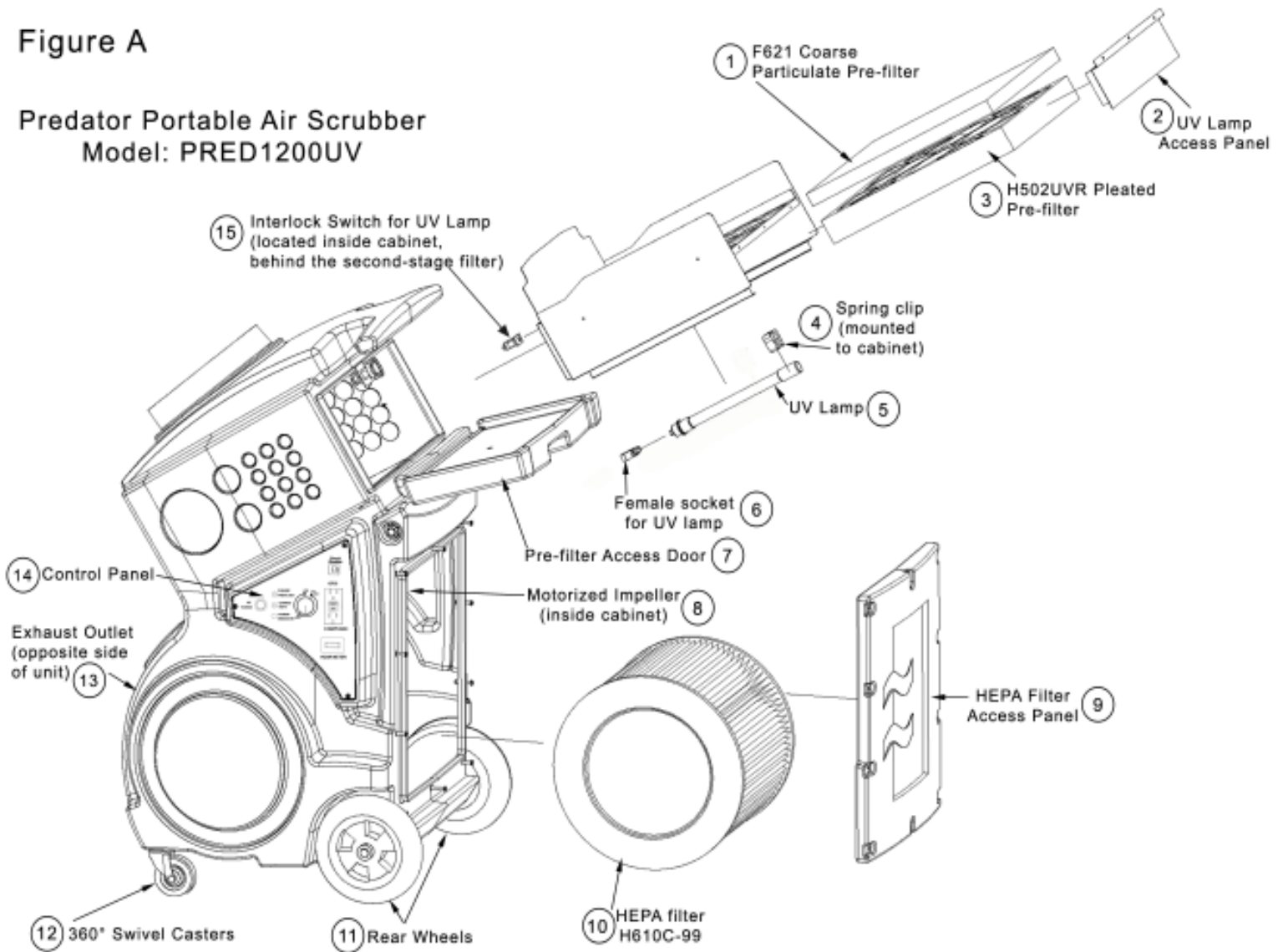
Abatement Technologies, Inc.
Georgia, USA
800-634-9091

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905-871-4720

www.abatement.com

Figure A

Predator Portable Air Scrubber
Model: PRED1200UV



- | | |
|--|---------------------------------------|
| 1. First Stage 1" Coarse/Particulate Pre-filter (P/N F621) | 10. 99.97% HEPA Filter (P/N H610C-99) |
| 2. UV Lamp Access Panel | 11. Rear Wheels |
| 3. Second Stage 2" Pleated Pre-filter (P/N H502UVR) | 12. 360° Swivel Casters |
| 4. Spring clip (mounted to cabinet) | 13. Exhaust Outlet |
| 5. UV Lamp (P/N UV415) | 14. Control Panel |
| 6. Female socket for UV lamp | 15. Interlock Switch for UV lamp |
| 7. Pre-filter Access Door | |
| 8. Motorized Impeller (inside cabinet) | |
| 9. HEPA Filter Access Panel | |

PREDATOR® Portable Air Scrubber
Model: PRED1200UV
Instruction Manual

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READ AND SAVE THESE INSTRUCTIONS!

- Note:**
- 1. Read and understand all operating instructions before using the PRED1200UV Portable Air Scrubber.**
 - 2. Save this manual for future reference.**

This instruction manual provides important information on the use of the Predator Portable Air Scrubber (PAS) - model PRED1200UV. These instructions must be carefully followed in order to operate the unit safely and correctly. If there are any questions regarding the use of the unit, please contact Abatement Technologies immediately at 800-634-9091 U.S. or 905-871-4720 Canada.

Abatement Technologies strongly urges users of air filtration units and related accessories to follow the most recent guidelines and/or standards published by the Occupational Safety and Health Administration, Environmental Protection Agency, and all other federal, state, provincial and local regulations.

GENERAL INFORMATION

The PRED1200UV is a multi-use air filtration device, equipped with pre-filters and a HEPA filter that are capable of filtering many airborne contaminants.

Types of contaminants captured by the particulate pre-filters and HEPA filter:

- Dirt
- Dust
- Drywall dust
- Saw dust
- Lung-damaging particles
- Metal fumes
- Smoke
- Mold and fungal spores
- Low concentrations of odors, vapors and gases (OVG)
- Low concentrations of Volatile Organic Compounds (VOC)
- Unpleasant nuisance odors

The PRED1200UV is capable of providing particulate filtration with final stage filtration through a High Efficiency Particulate Air (HEPA) filter. The PRED1200UV incorporates a series of particulate filters which successively remove larger size to smaller size particles from the air. In addition to providing HEPA filtration, the PRED1200UV is primarily used in a negative pressure or recirculation mode. A negative pressure condition is created in order to confine contaminated airborne particles. This condition exists when the static pressure inside the room containing the unit is lower relative to the pressure of the environment outside the room. The static pressure differential is created and maintained by continuously exhausting air out of a given room at a faster rate than air enters the room from all other sources. In the recirculation mode, all of the filtered air is exhausted back into the room containing the unit.

Standard Air Cleaning Filter Stages (filters supplied with the unit)

The PRED1200UV comes equipped with two progressively efficient particulate pre-filters and one high-output ultraviolet germicidal irradiation (UV) lamp, all mounted in the pre-filter compartment, and a final stage HEPA filter, located in the lower section of the cabinet:

- The first-stage 1"-deep, coarse particulate pre-filter (F621) is designed to capture particles 100 microns or larger.
- The second-stage 2"-deep, UV-resistant pleated pre-filter (H502UVR) is designed to capture particles 10 microns or larger. The filter media in the UV-resistant pleated filter is yellow in color. NOTE: The H502UVR pre-filter must be in place, or the UV lamp will not operate.
- The high-capacity UV lamp (UV415) is used to inhibit the growth of bacteria, viruses, and mold spores, by exposing them to high levels of UV energy.

- Each HEPA filter (H610C-99) is tested & certified to capture at least 99.97% (9,997 out of 10,000) 0.3-micron particles.

Note: The particulate filters in the PRED1200UV do **not** remove odors, vapors or gases, including volatile organic compounds.

UV lamps have been used in health care and food processing & storage facilities for more than 60 years, to help control biological contaminants (bacteria, mold, viruses, etc.) and related microbial VOC (MVOC) & odors, by exposing the microbes to high levels of UV-C irradiation. Sufficient levels of UV irradiation can destroy microbes by altering their DNA, and interfering with their reproduction process. UV dosage is a function of exposure intensity, exposure time, and the distance between the UV source and the microbe. The design of the PRED1200UV, forces air to pass very closely past the ultra-high intensity UV lamp, in order to maximize exposure.

TO DETERMINE THE REQUIRED NUMBER OF UNITS

Note: The Mold Abatement, Restoration & Renovation section of the Abatement Technologies website, www.abatement.com, includes a handy Air Change Calculator for all Predator models. This calculator provides users with a simple way to determine how many units are needed to provide a given number of air changes per hour (ACH) in any size containment area, and eliminates the need for user calculations. Simply enter the dimensions of the containment area, the ACH required, and select a built-in safety factor (SF) to compensate for potential losses due to filter loading, inlet and exhaust collars, ducting, etc. (Please note that use of a SF is recommended but not required). The calculator does the rest.

To determine the number of units required without using the Air Change Calculator, proceed as follows:

1. Calculate the volume inside containment (V), in cubic feet, by multiplying the length of the area (L) x the width of the area (W) x the ceiling height (H), in feet.
2. Determine the minimum ACH required in the job specification.
3. Select a safety factor (SF). Most users build-in between 10% (SF = 1.1) and 25% (SF = 1.25), or more. If you don't wish to use a SF, proceed to Step 4.
4. Calculate the minimum total airflow required (Total CFM), as follows:
Total CFM = (V x ACH x SF) ÷ 60.
5. # Units Required = Total CFM ÷ CFM rating for the Unit.
6. Always round up to the next whole number. For example, if the minimum requirement is 2.1 units, 3 units are recommended, not 2.

Example 1:

How many 900 CFM units are needed to provide at least 6 ACH in a 25' x 30' x 10' containment area, with a 20% safety factor?

$$V = 25 \times 30 \times 10 = 7,500 \text{ Cubic Feet}$$

$$\text{Total CFM} = (7,500 \times 6 \times 1.2) \div 60 = 900 \text{ CFM}$$

$$\text{Minimum \# Units Required} = 900 \text{ CFM} \div 900 \text{ CFM (airflow of unit)} = \underline{\mathbf{1 \text{ Unit Required}}}$$

Example 2:

How many 900 CFM units are needed to provide at least 5 ACH in a 50' x 42' x 10' containment area, with a 25% safety factor?

$$V = 50 \times 42 \times 10 = 21,000 \text{ Cubic Feet}$$

$$\text{Total CFM} = (21,000 \times 5 \times 1.25) \div 60 = 2,188 \text{ CFM}$$

$$\text{Minimum \# Units Required} = 2,188 \div 900 = 2.43 = \underline{\mathbf{3 \text{ Units Required}}}$$

Note: This example illustrates the importance of a Safety Factor. If no SF were used, only 1,750 CFM (2 units) would be required.

PRED1200UV TRANSPORT

Note: The PRED1200UV can be transported in the horizontal position. If extremely poor road conditions exist, or excessive shock and vibration are expected, take precautionary measures by padding the unit to provide impact absorption during transport.

Caution: Always use caution when moving the PRED1200UV inside a building or home. The unit weighs 70 pounds. Older structures with weakened floors or staircases may require special considerations for safe transport.

ELECTRICAL REQUIREMENTS

1. The PRED1200UV requires a minimum of 110 volts AC, 60 Hz to operate properly; however, maximum airflow performance requires 120 volts AC, 60 Hz. If the voltage is too low or too high, the UV lamp ballast will overheat, causing the thermal overload switch to trip, and the UV lamp will not operate.
2. Due to momentary start-up current surge, the unit requires a 15 amp circuit that is free of other loads.
3. Extension cords used for the PRED1200UV must be UL-listed, heavy duty No. 14/3 AWG industrial grade 3-wire type. Use of larger numerical gauge (lower capacity wire) power cord(s) may result in electrical shock, fire hazards and/or damage to the UV lamp and ballast. The cord(s) must be in good condition and in continuous lengths (no splicing) and should not exceed a total of 50 feet in length. Make certain that any extension cords used do not reduce power to the unit to less than 110 volts. Use of a voltmeter to confirm adequate voltage is recommended.
4. Check to ensure that any circuit to which the unit is connected is protected by a 15 ampere circuit breaker. The unit itself is equipped with a 12 amp circuit breaker.
5. The PRED1200UV should be connected to a three-prong, properly grounded electrical outlet equipped with a Ground Fault Circuit Interrupt (GFCI) device. A GFCI is an electrical safety device that will trip the circuit and stop the flow of electricity if leakage of current is detected.
Important Note: The GFCI on the PRED1200UV control panel only detects leakage of current from the unit or an electrical device plugged into the GFCI. The PRED1200UV should be plugged into a GFCI receptacle at the power source to protect the power cord and the unit. This GFCI will trip the circuit if it detects leakage of current from the power cord or unit.
6. To avoid personal injury, fire hazards and/or damage to the PRED1200UV electrical system and power cord, do not connect or disconnect the power cord to an electrical outlet unless the motorized impeller is "OFF".

REQUIREMENTS FOR SAFE OPERATION

1. Never allow unauthorized individuals or children to operate the unit at any time.
2. Abatement Technologies urges anyone operating the PRED1200UV to wear the proper personal protective equipment and follow safe work practices in accordance with federal, state, provincial and employer regulations.
3. Check the condition of power cord(s) before using them. Damaged cords can cause fatal electric shock and/or motorized impeller failure.
4. Power cord(s) should never be exposed to water, heat, sharp, or abrasive objects; in addition, they should never be kinked or crushed. Avoid tightly wrapping the cords to prevent kinking of the internal wires. Always replace damaged power cords immediately.
5. Never pull the unit by the power cord.
6. Avoid running over power cords with utility equipment and vehicles.

Important Safety Instructions

- a. **Do not operate any unit with a damaged cord or plug. Discard unit or return it to an authorized service facility for examination and/or repair.**
- b. **Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.**

Caution: As with any piece of electrical equipment, always make sure that the unit is turned "OFF" prior to connecting the power cord to an electrical outlet or disconnecting it from an electrical outlet. Failure to do so will cause "arcing", and could result in personal injury, fire hazards and/or damage to the unit. Do not disconnect the power cord from supply receptacle while the unit is operating.

Warning: To reduce risk of electrical shock, do not expose this unit to water or rain. Do not touch the electrical outlet or power cord(s) with wet hands or while standing on a wet or damp surface.

Warning: Risk of electrical shock! Can cause injury or death! Turn UV lamp switch “OFF”, turn unit “OFF” and disconnect power cord from supply receptacle cord before replacing the pre-filters, HEPA filter, UV lamp and before cleaning or servicing the unit.

Warning: The PRED1200UV is equipped with an automatic restart motorized impeller that will restart without warning after a temporary power interruption or recovery from a thermal overload (over-heating) condition. Keep clear of the motorized impeller at all times to reduce the risk of injury.

Warning: To reduce risk of fire or electrical shock, do not use the PRED1200UV with any solid state speed control device. Do not use in a cooking area.

Caution: The PRED1200UV is designed for indoor use only.

CAUTION: For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors.

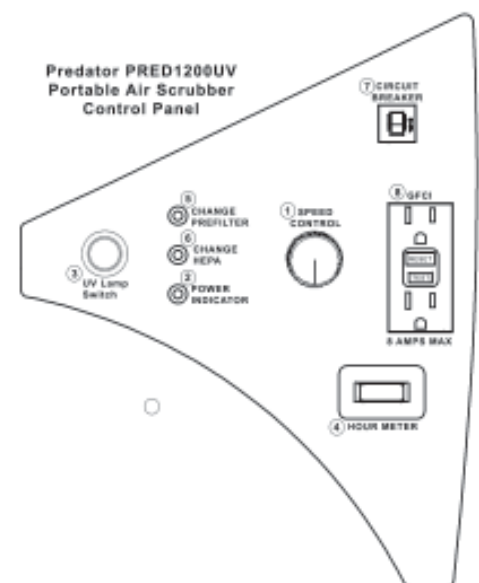
Warning: Abatement Technologies air filtration systems are not intrinsically safe for use in hazardous environments. Always consult a certified industrial hygienist before using them. Do NOT use this equipment in any atmosphere that is or may be immediately dangerous to life or health (IDLH), combustible, flammable, explosive, oxygen deficient, and/or contains odors, vapors, gases or particulates that exceed permissible exposure levels. Such atmospheres may require the use of intrinsically safe equipment, specific engineering controls, and personal protective equipment in accordance with Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), Canadian Standards Association (CSA), and other federal, state, provincial and local regulations.

Warning: This equipment is not classified as “intrinsically safe” and should not be used in the following hazardous locations as defined by the Underwriters Laboratories: Class I Division 1, Class I Division 2, Class I Zone 0, Class I Zone 1, Class I Zone 2, Class II Division 1, Class II Division 2, Class III Division 1, Class III Division 2. Refer to the UL web site: <http://www.ul.com/hazloc/define.htm>.

Warning: Do not use this unit near sparks, open flames or other possible sources of ignition.

PRED1200UV CONTROL PANEL

- 1. Speed Control Switch** - Serves as the power switch and provides a variable adjustment to the speed of the motorized impeller.
- 2. Power Indicator** - Green light that indicates speed control switch is “ON” and system is connected to power source.
- 3. UV Lamp Switch** - Turns power to the UV lamp “ON” and “OFF”. This rocker-arm style switch will illuminate when it is in the “ON” position.
Note: The UV Lamp Switch will operate only when the unit is connected to a suitable power source, the motorized impeller is “ON”, the second stage pre-filter is in place and the prefilter access door is closed. The door should be locked in position.
- 4. Hour Meter** - Provides a count of the total operating hours.
- 5. Filter Change Indicator - Pre-filters** - Red light that indicates excessive restriction on air intake or loading of the pre-filter(s) and that filter change procedures should be followed.
- 6. Filter Change Indicator - HEPA** - Red light that indicates excessive restriction on air exhaust or loading of the HEPA filter and that filter change procedures should be followed.
- 7. Circuit Breaker** - 12 amp circuit breaker that provides protection for the unit’s electrical components.
- 8. GFCI Receptacle** - Electrical safety device that will trip and stop the flow of electricity if leakage of current is detected from the unit or an electrical device plugged into the GFCI receptacle. The PRED1200UV can



supply a total of 8 amps of electrical power for additional equipment that is connected to the GFCI receptacle. Do not exceed this 8 amp limit.

Note: If the equipment connected to the GFCI receptacle draws more than a total of 8 amps, the circuit breaker on the control panel and/or the building breaker will trip. This condition can be remedied only by reducing the total amperage draw.

Interlock Switch - turns power to the PRED1200UV lamp "OFF" if the second-stage pre-filter is removed. The interlock switch is located inside the PRED1200UV cabinet, behind the second-stage pre-filter (refer to Figure A). If the second-stage pre-filter is removed, the interlock switch will shut the UV lamp "OFF", to prevent anyone from coming in direct contact with ultraviolet light and lamp surfaces, which can cause personal injuries such as temporary or permanent loss of vision and severe skin burns.

BEFORE OPERATING THE UNIT, NOTE THE FOLLOWING:

Inspect and tighten any HEPA filter retaining nuts that may have loosened during transportation. Inspect the filters for any material or structural damage prior to use and replace any damaged filters before operating the unit. When removing any filters prior to operation, always put them back in place with airflow indicator on filter housing oriented in the proper direction (if applicable).

As with any air filtration system, external airflow losses not attributable to the air filtration unit will reduce the airflow of the system. The following recommendations can minimize airflow losses created by external static resistance.

1. Always use the minimum length of ducting possible with the fewest possible number of turns and bends.
2. Rigid metal ducting creates less turbulence and consequently less airflow loss than flexible ducting. Regardless of the type of ducting used, rigid, "sweep-type", radiused connections should be used for all turns and bends.
3. If flexible ducting is used, it must be kept as taut as possible to avoid flattening.

LOCATION OF THE UNITS AND MODES OF OPERATION

1. **Negative Pressure** - used to help ensure that airborne contaminants do not escape from a containment area, by maintaining negative (lower) air pressure within that area compared to adjacent areas. This is generally accomplished by placing the unit inside the containment area and exhausting filtered air from the unit out of the area. The filtered air must be exhausted outside of the containment area, either directly to the outdoors, or into another part of the building. To maintain negative pressure, the air exhaust must exceed the air supply by the greater of 10% or 100 CFM. To achieve this differential, the air supply volume to the area may have to be reduced. Negative pressure levels should be continuously monitored.
2. **Recirculation** - used to reduce concentrations of airborne contaminants in a room or area by continuously cleaning the air and exhausting it back into the same room or area.
3. **Positive Pressure** - used to help prevent airborne contaminants from entering a containment area, by keeping that area under positive pressure compared to adjacent spaces, so any air leakage will be an outflow of clean air, and not inflow of contaminated air. This pressure differential can be established by:
 - a. placing the unit inside the containment area, and using it to pull air into the area by attaching flex duct between the inlet collar and a location outside of the containment area.
 - b. placing the unit outside of containment area, and using it to push HEPA-filtered air into the area through flex duct attached between the outlet collar and a location inside the area.

To ensure that the proper pressure differential is maintained, the volume of HEPA-filtered air supplied to the area must be the greater of 10% or 100 CFM higher than the volume of air exhausted from it by the HVAC system. Positive pressure levels should be monitored continuously.

Important Note: Do not operate the unit unless the pre-filter(s) and HEPA filter are installed, the pre-filter access door is closed and locked in position, and the HEPA filter access panel is in place and secured to cabinet.

DAISY CHAINING

“Daisy Chaining” refers to the operation of multiple units on one circuit, with only one of the units plugged into a 120V/15A electrical power supply receptacle. Each subsequent unit is plugged into one of the GFCI receptacles on the prior unit, up to the maximum number allowed based on the amperage draw per unit. The National Electrical Code limits the total amperage draw of devices operating on one circuit to 80% of full load, which means that the total amperage draw on a 120V/15A circuit, including the unit plugged into the building electrical power supply receptacle, must not exceed 12 amps.

A total of three PRED1200UV units can be “Daisy Chained” on a 15 amp circuit, including the unit plugged into the building electrical power supply receptacle.

TO START UNIT

1. Check to make sure that the Speed Control Switch is in the “OFF” position. Plug power cord into a 120 volt AC, 60Hz, 15 amp supply circuit.
2. Turn Speed Control switch clockwise past the click at the “HIGH” setting to turn power “ON”.
3. Set Speed Control switch to desired setting.

Note: Refer to the chart in this instruction manual entitled “AIRFLOW RATINGS” that lists the airflows for the PRED1200UV.

Note: In the event of a power failure while the unit is running, or loss of power due to any other cause, this unit’s motorized impeller will re-start when power is restored, after brief delay.

UV LAMP

1. Press the UV Lamp switch down to turn the UV lamp “ON”. The switch will illuminate when it is in the “ON” position.

Note: The UV lamp has a rated service life of approximately one year, provided it is not turned “ON” and “OFF” several times a day. The lamp should be replaced at least once each year.

FILTER CHANGE INDICATORS

“Change Pre-filter” light “ON” indicates one or more of the following:

1. Loaded pre-filter(s). Refer to filter change procedures.
2. Restrictions on air intake. Refer to Troubleshooting Guide.

“Change HEPA” light “ON” indicates the following:

1. Loaded HEPA filter. Refer to filter change procedures.
2. Excessive restrictions on air exhaust. Refer to Troubleshooting Guide.

FILTER AND UV LAMP REPLACEMENT

Note: Personnel responsible for changing filters and UV lamp, servicing units or relocating units within the facility are urged to wear the proper personal protective equipment and follow safe work practices in accordance with federal, state, provincial, and employer regulations.

Note: Filters being replaced must be disposed of in accordance with federal, state, provincial, local and facility regulations.

System airflow reduction is generally the result of filter loading, blockage of the unit’s inlet or use of excessive lengths of flex duct that is connected to the inlet.

The size and concentration of airborne contaminants, temperature and humidity conditions, and duration of use determine how often filters need replacement. If the Filter Change Indicator(s) on the control panel illuminate, this

indicates one or more of the following: (1) pre-filter(s) are loaded, (2) the inlet or exhaust is obstructed, (3) the flex duct, if attached to inlet or exhaust, is too long or has too many bends, and (4) the HEPA filter is loaded.

Note: The filters are not reusable, therefore, do not attempt to clean and reuse them.

Caution: Abatement Technologies PRED1200UV Portable Air Scrubber units are designed to meet or exceed standards for high efficiency air filtration equipment. Use only Abatement Technologies parts, including replacement filters. Use of non-Abatement Technologies parts and filters voids the product warranty and all performance claims.

Warning: To reduce the risk of fire, electrical shock or personal injury, always turn the UV lamp switch “OFF”, turn the PRED1200UV “OFF”, and disconnect the power cord from supply receptacle before replacing the pre-filters, HEPA filter, UV lamp and before cleaning or servicing the unit. The UV lamp produces intense ultraviolet light and heat. Direct contact with ultraviolet light and lamp surfaces can cause temporary or permanent loss of vision and severe skin burns. Never look at a UV lamp while it is illuminated. Lamp must be “OFF” for at least 15 minutes before being replaced, to allow it to cool. Touching the lamp immediately after it is turned “OFF” will result in severe skin burns.

Warning: The UV-resistant pleated H502UVR filter provided with the PRED1200UV is specially designed for use with UV lamps. DO NOT USE THE H502 PLEATED FILTER OR SUBSTITUTE OTHER FILTERS BECAUSE THESE PRODUCTS MAY OFF-GAS, PRODUCE UNPLEASANT ODORS, DEGRADE, AND IN SOME CASES, COMPLETELY DETERIORATE.

Important Note: The H502UVR filter media is yellow in color.

FILTER CHANGE PROCEDURE

To Change the First Stage Filter:

1. Turn the UV Lamp Switch “OFF”, turn the unit “OFF”, and disconnect the unit’s power cord from the electrical outlet.
2. Turn the latch on the pre-filter access door counterclockwise (approx ½ turn), and open the door.
3. Remove the first stage filter and replace it with a new one. Be sure to slide the filter all the way into the unit’s cabinet.
4. Close the door and lock it in position by turning the latch clockwise. Make sure the door is flush against the PRED1200UV cabinet before closing latch.
5. Reconnect power cord to supply receptacle and start unit. If the “Change Pre-filter” light remains “ON” after changing the first stage filter, the second stage filter should be replaced.

To Change the Second Stage Filter:

1. Turn the UV Lamp Switch “OFF”, turn the unit “OFF”, and disconnect the unit’s power cord from the electrical outlet.
2. Open the pre-filter access door.
3. Remove the second stage filter and replace it with a new one. Be sure to slide the filter all the way into the unit’s cabinet.
4. Close the door and lock it in position by turning the latch clockwise. Make sure the door is flush against the PRED1200UV cabinet before closing latch.

To Change the HEPA Filter:

1. Turn the UV Lamp Switch “OFF”, turn the unit “OFF”, and disconnect the unit’s power cord from the electrical outlet.
2. Remove the screws that hold the HEPA filter access panel in place and set the panel aside.
3. Remove the wing nuts that secure the HEPA filter retaining bracket in place, slide the bracket off the long filter retaining bolts and remove the HEPA filter.

4. Carefully place a new HEPA filter (part number H610C-99) into the cabinet, making sure that it rests on the curved section of the cabinet base, which is just behind the long, lower filter retaining bolt. The foam seal of the filter should be aligned with the exhaust outlet.
5. Place the HEPA filter retaining bracket over the retaining bolts and secure it in place with the wing nuts. Do not over-tighten the wing nuts.
6. Re-attach the HEPA filter access panel and secure it to the cabinet with its screws.

Warning: Use only Abatement Technologies pre-filters, HEPA filters, and replacement parts. Substitute parts void the warranty, jeopardize worker and environmental safety, and adversely effect engineered performance levels.

TO CHANGE THE UV LAMP

Warning: UV lamp gets extremely hot during operation. Lamp must be “OFF” for at least 15 minutes before being replaced, to allow it to cool. Touching the lamp immediately after it is turned “OFF” will result in severe skin burns.

Warning: NEVER PUSH THE BUTTON ON THE INTERLOCK SWITCH. Pushing this button when the unit is connected to an electrical power source and the UV lamp switch is “ON”, will turn the UV lamp “ON”, resulting in direct contact with ultraviolet light and lamp surface, which can cause personal injuries such as temporary or permanent loss of vision and severe skin burns.

1. **Turn the UV Lamp Switch “OFF”, turn the unit “OFF”, and disconnect the unit’s power cord from the electrical outlet. Wait at least 15 minutes before proceeding to step 2 to allow the lamp to cool.**
2. Open the pre-filter access door and remove the second-stage pre-filter.
3. Remove the screws that hold the UV lamp access panel in place and set the panel aside. Refer to Figure A.
4. Press down on the UV lamp to disengage it from the spring clip that holds it in place.
5. Grasp the ceramic section of the lamp and unplug the lamp from the female socket.
6. Plug the 4 pin end of a new lamp all the way into the female socket.
Note: The 4 pins at the end of the lamp form a rectangle and align with the female socket in only two positions. Do not touch the glass section of the lamp with bare hands because skin oils will reduce the effectiveness of the lamp.
7. Gently push the lamp back into the spring clip.
8. Put the UV lamp access panel back into place and secure it in position with its screws.
9. Put the second-stage pre-filter back into the unit, close the pre-filter access door, and lock it in position by turning the latch clockwise. Make sure the door is flush against the PRED1200UV cabinet before closing latch.

Note: UV lamp contains mercury. Do not place used UV lamp in the trash. Contact the local waste disposal authority for instructions on the proper disposal of UV lamp. Refer to the website: <http://www.nema.org/lamprecycle> for more information regarding the recycling of spent mercury-containing lamps.

PRED1200UV SPECIFICATIONS

FEATURE	PRED1200UV
Net weight w/filters:	70 lbs.
Shipping weight:	95 lbs.
Dimensions (LxWxH):	22"L x 24"W x 42"H
Power supply requirements:	120 volts AC, 60Hz, 15 amp circuit.
Normal operating amps:	3.5 amps or less
Motorized Impeller:	400 watt motorized impeller with thermal overload protection, auto re-set, 60 Hz, single phase.
Circuit Breaker:	12 amp
Operational sound level:	62 - 67 dBA, reading taken at 5 feet
Cabinet material:	UL94HB flame retardant resin with EPA-Registered microbial inhibitor.
Transportability:	2 each 8" solid, non-marking rubber wheels in rear and 2 ea. 360° swivel casters in front.
Pre-filter access:	Easy-operating hinged door is secured by rotating latch to protect against filter by-pass.
First stage pre-filter:	1" coarse particulate pre-filter (F621)
Second stage pre-filter:	2" uv-resistant pleated particulate pre-filter (H502UVR). The filter media is yellow in color.
HEPA filter:	Tested and certified to an efficiency of 99.97% or higher against 0.3 micron size particles. (H610C-99)
UV lamp:	Ultraviolet germicidal irradiation lamp (UV415)
Patent:	Patented - U.S. Design Patent No. D572,356

Note: Specifications subject to change without notice.

AIRFLOW RATINGS (PRED1200UV is a variable speed unit)

	Lowest Speed	Highest Speed
Predator 1200UV	300 CFM	900 CFM

Note: Airflow ratings estimates are based on factory and independent testing @ 120 VAC with an air straightener and a traverse of readings taken with a computing vane-anemometer. Actual results may vary for various reasons, including motor and blower and HEPA filter tolerances. Factors such as filter loading, reduced voltage to the motor, and inlet and outlet ducting will reduce airflow. Use these ratings as a general guideline only.

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
NO RESPONSE WHEN THE POWER IS TURNED "ON".	POWER CORD UNPLUGGED. DEFECTIVE POWER CORD. TRIPPED CIRCUIT BREAKER. TRIPPED GROUND FAULT CIRCUIT INTERRUPTER. THERMAL OVERLOAD ON THE MOTORIZED IMPELLER HAS TRIPPED.	PLUG POWER CORD FIRMLY INTO ELECTRICAL OUTLET IN WALL. CHECK ALL CONNECTIONS AND CONDITION OF ALL CORDS. DO NOT OPERATE WITH DAMAGED POWER CORD(S). RESET BREAKER FOR BUILDING. RESET 12 AMP BREAKER ON CONTROL PANEL. RESET GFCI ON CONTROL PANEL AND/OR AT POWER SOURCE. TURN UNIT "OFF", WAIT 30 MINUTES AND RESTART UNIT.
CIRCUIT BREAKER ON CONTROL PANEL OR BUILDING "TRIPS".	OVERLOADED CIRCUIT.	UNPLUG ANY ADDITIONAL EQUIPMENT CONNECTED TO THE GFCI RECEPTACLE. RESET CIRCUIT BREAKER.
FILTER CHANGE INDICATOR(S) "ON".	LOADED FILTERS. EXCESSIVE RESTRICTIONS ON INTAKE OR EXHAUST.	CHANGE IN ACCORDANCE WITH OPERATING INSTRUCTIONS. REDUCE BENDS, LENGTH OF FLEX DUCT OR ELIMINATE RESTRICTIONS.

Note: If the unit does not start or malfunctions after carefully following the **Troubleshooting Guide**, call Abatement Technologies service department at 800-634-9091 (U.S.) or 905-871-4720 (Canada) for assistance.

COMPONENT REPLACEMENT AND CARE OF THE UNIT

Warning: To reduce the risk of fire, electrical shock or personal injury, always turn the UV lamp switch "OFF", turn the unit "OFF" and disconnect power cord from supply receptacle before removing the control panel, replacing the pre-filters, replacing the HEPA filter, replacing the UV lamp and before cleaning or servicing the unit. The PRED1200-UV is equipped with an automatic restart motorized impeller that will restart without warning after a temporary power interruption or recovery from a thermal overload (over-heating) condition. Keep clear of the motorized impeller at all times to reduce the risk of injury.

Occasionally a defective component will cause the unit to operate improperly or not at all. Any electrical component can fail. Refer to the Wiring Diagrams and Wiring Schematics to diagnose the failure of any component. Diagnostics should only be performed by a technician qualified to service electrical equipment.

The unit is plastic and should be cleaned with a damp cloth or a water-based cleaner/sanitizer. Do not use harsh chemicals, solvents or detergents to clean the unit.

Warning: Keep electrical components dry as their exposure to liquids poses a safety hazard and can damage components.

CERTIFICATION OF ROOM AIR FILTRATION UNITS

The Abatement Technologies room air filtration units have been tested by Intertek Testing Services (ITS) and are ETL and ETL (Canada) listed for electrical safety.

ITS is accredited by the U.S. Occupational Safety and Health Administration (OSHA) as a Nationally Recognized Testing Laboratory (NRTL).

LIMITED WARRANTY

Abatement Technologies, Inc (ATI) warrants that goods sold to the original user shall be free from defects in material and workmanship for a period of 1 year, except such as are commercially acceptable. This warranty does not include useful filter life. The warranty period for the lamp and ballast is 1 year from the date of purchase. The plastic cabinet has a lifetime warranty period for the original user. **ATI does not warrant that the goods sold are merchantable or fit for any particular purpose. ATI makes no warranties other than as stated in this paragraph. All other warranties, guaranties, or representations, express or implied, by operation of law or otherwise, are expressly disclaimed.** Goods found by ATI to be defective or not to conform to specification shall upon return be replaced or repaired by ATI without any additional charges, or, at ATI's option, ATI may refund the purchase price of such goods. ATI will pay return transportation charges on returned goods not exceeding the transportation charges applicable to shipment from original destination unless the returned goods are free from defect and conform to specifications. Returned goods which are found by ATI to be free from defect and to conform to specifications shall be held for Purchaser's shipping instructions, which instructions Purchaser shall furnish promptly upon request. **ATI's liability shall in no event extend beyond replacement, repair or refund of the purchase price and ATI shall not be liable under any circumstances for special, contingent or consequential damages, nor for loss, damages, or expenses directly or indirectly arising from the use of the goods, including without limitation, warehousing, labor, handling and service charges, die, equipment, or machine breakage, nor for costs, lost profits or loss of good will. The use of substitute, non-ATI parts and/or filters, in any ATI product, voids all warranties and performance claims. The remedies set forth herein are exclusive.**

For warranty information and assistance contact Abatement Technologies' Customer Service Department at 800-634-9091 (U.S.) or 905-871-4720 (Canada.)

Abatement Technologies' PRED1200-UV high-efficiency air filtration units are originally equipped with true HEPA (High Efficiency Particulate Air) filters designed to maximize the performance of the equipment, and to meet the following industry standards:

Institute of Environment Sciences and Technology

IEST-RP-CC001.3 (Type A HEPA and ULPA Filters)

IEST-RP-CC021.1 (Testing HEPA and ULPA Filter Media)

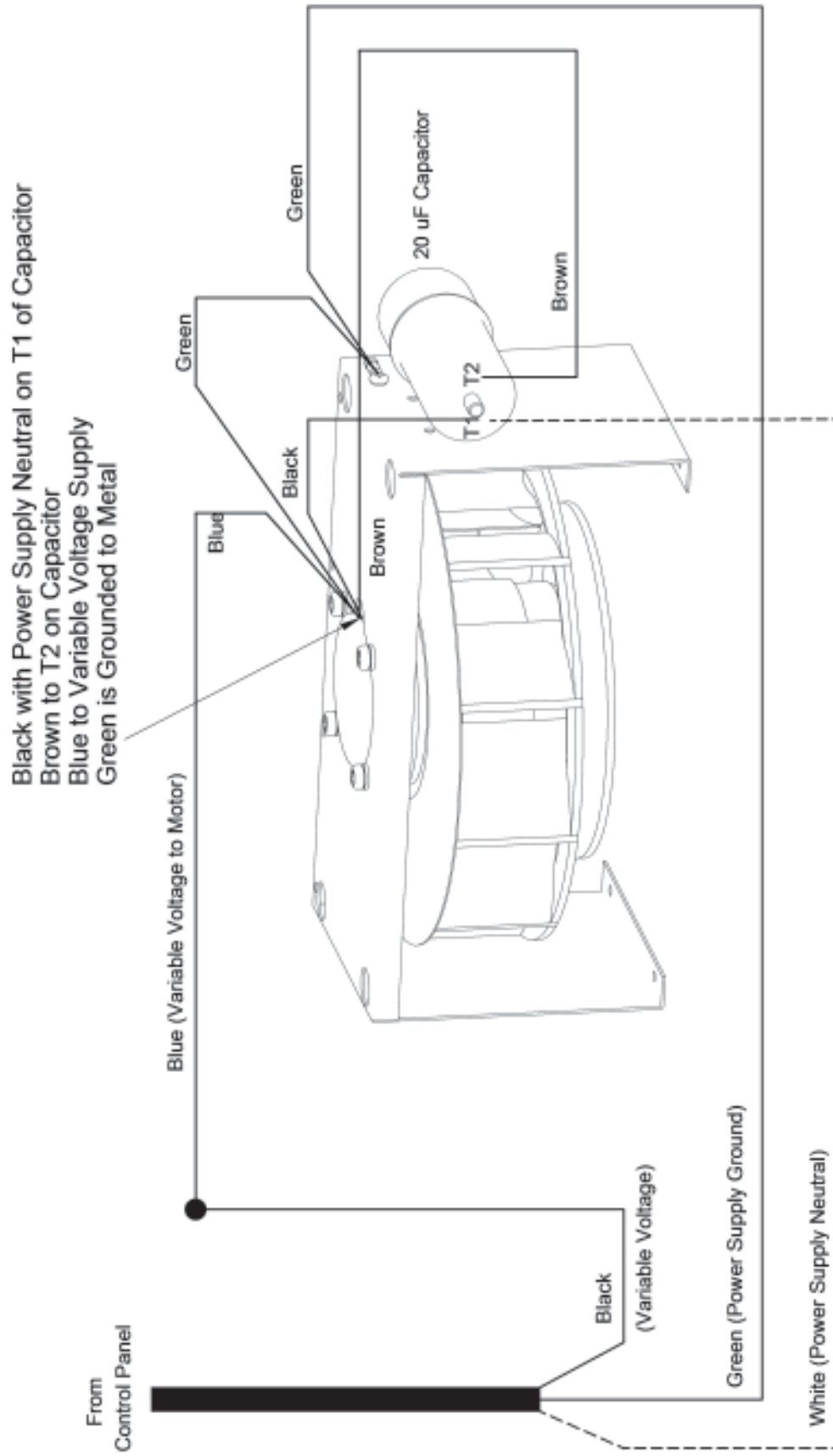
Underwriters Laboratories

UL900, Class II (Flammability Specifications)

100% Efficiency Tested

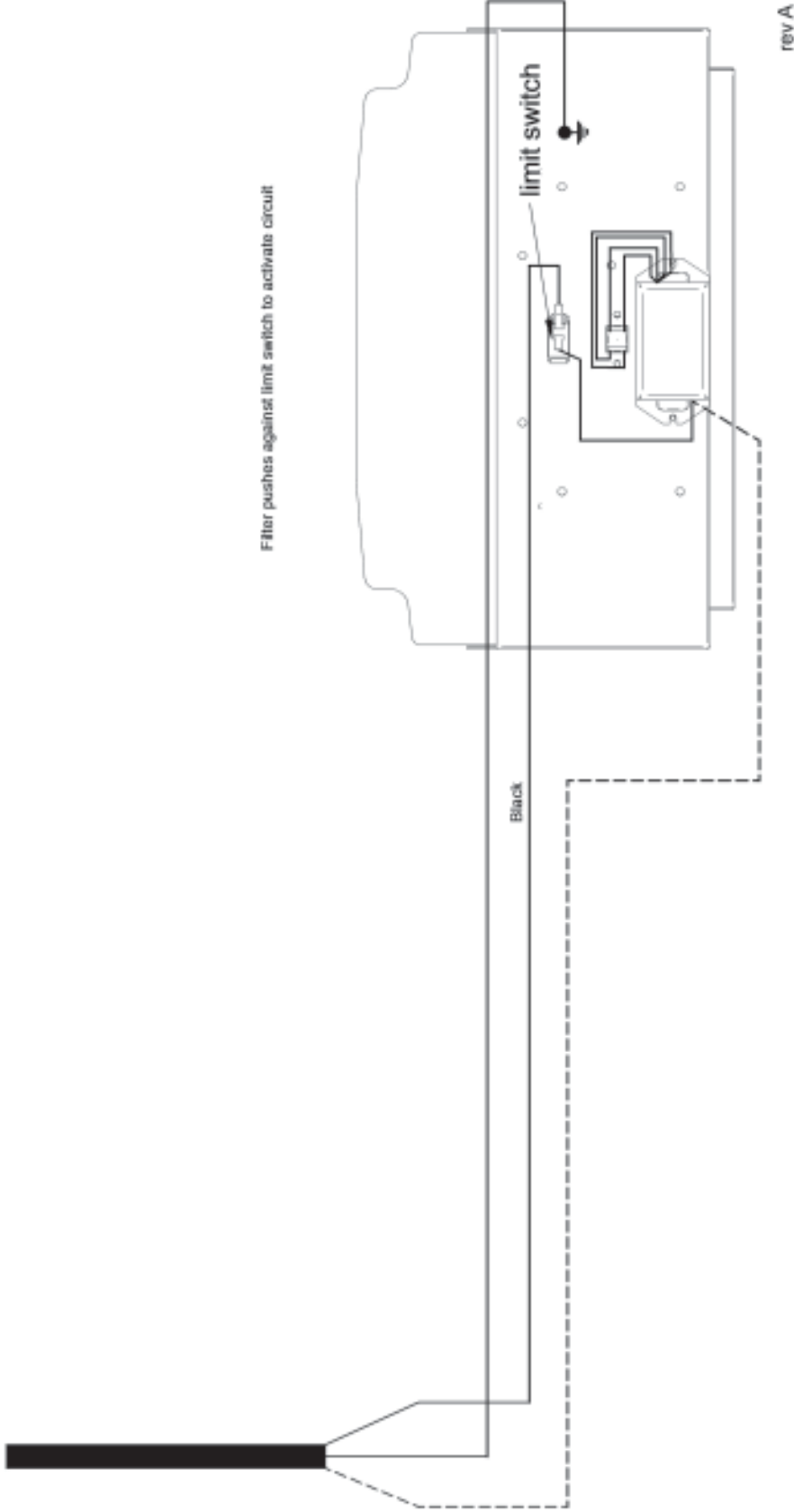
Abatement Technologies HEPA filters are individually tested and certified to ensure that the completed filter provides an overall minimum efficiency of 99.97% when challenged by a thermally generated test aerosol, 0.3-microns in size, in accordance with IEST-RP-CC001.3.

Predator 1200UV Motorized Impeller Wiring Diagram



Predator 1200UV Bulb Assembly Wiring

To Control Panel



Predator 1200UV Wiring Schematic

