

ARM-EVAC® 500 SYSTEM

FUME EXTRACTION SYSTEM

ARM **EVAC**® **500**



OPERATION &

MAINTENANCE

MANUAL

**Manual No. 8881-0975
Rev. A
June, 2001.**

Warning

READ THE SAFETY AND APPLICATIONS INFORMATION SECTION IN THIS MANUAL
THOROUGHLY *BEFORE* INSTALLING AND USING YOUR FUME EXTRACTION SYSTEM.

PAGE[®]

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Since 1958, PACE Incorporated has provided advanced technology training in all aspects of hand soldering, rework and repair.

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GENERAL INFORMATION

USE OF THIS MANUAL

This manual will provide the user with the basic knowledge to properly operate and maintain the PACE Arm-Evac 500 Fume Extraction System. If you encounter any difficulty operating your system or have any questions, call your local authorized PACE dealer or contact PACE Applications Engineering directly in the United Kingdom Office on Tel. (44) 1908 277666, Fax (44) 1908 277777, or PACE Product Management in the U.S. Office at Tel. (301) 490-9860, Fax (301) 604-8782.

Warning

Read the safety and applications information section in this manual thoroughly *before* installing and using your fume extraction system.

INTRODUCTION

The PACE Arm-Evac 500 Fume Extraction System represents the latest in microprocessor technology in fume extraction. It features a heavy duty, maintenance free brushless motor along with a filtration process which includes a pre-filter for coarse particle removal, and a High Efficiency Particulate Arrestor (HEPA) Filter and a Gas Filter. The HEPA and Gas filters are ideal for use in applications where high efficiency particulate removal is required with the additional benefit of a gas media blend to neutralise and absorb noxious solder fume gases.

The Arm-Evac 500 Fume Extraction System also incorporates an innovative filter condition monitoring system, a self-calibration feature and RS232C computer interface for computerized communication.

PACE Arm-Evac systems provide the user with the power and versatility to remove harmful fumes produced when hand soldering. Arm-Evac systems use specially designed extraction accessories that can be conveniently mounted on any workbench or tabletop. The number of collection accessories that can be connected to the Arm-Evac 500 is dependent on the diameter of the collection accessory that will be used. Please refer to the specification section for further information.

ENVIRONMENTAL SPECIFICATIONS

Ambient Operating Temperature:	0°C to 50°C (32°F to 122°F)
Storage Temperature:	-40°C to 125°C (-40°F to 257°F)
Ambient Operating Humidity:	90% relative humidity maximum non-condensing
Storage Humidity:	90% relative humidity maximum non-condensing

GENERAL INFORMATION

ARM-EVAC 500 SPECIFICATIONS

General		
	110 Volt System	230 Volt System
Part Number:	8889-0505	Part Number: 8889-0500
Power Requirements:	110V, 60Hz, 3 amps	Power Requirements: 230V, 50Hz, 3 amps
Weight:	28Kg (62lbs.)	Inlets: 3 inlets, 75mm (3") diameter
Size (W x D x H):	400x500x640mm 15.75 x 19.5 x 25 in.	Flow Rate: 110v - 500 m ³ /h (294 cfm)
Housing:	18 gauge steel with epoxy finish	240v - 400 m ³ /h (237cfm)
Noise Level:	60.5dBA at 2 meters (6.56ft.)	Duct Run: 20m (66ft) maximum
		Motor Type: Single stage centrifugal

Filters	
Pre-Filter:	Part Number 8883-0145-P10 Extended life, wire backed polyester/cotton media
General Purpose HEPA Filter:	Part Number 8883-0955 Composed of borosilicate media 90% ASHRAE
Carbon Filter:	Part Number 8883-0956 Composed of bonded activated carbon
Clean Room HEPA Filter (optional):	Part Number 8883-0965 Composed of borosilicate media 99.995% DOP

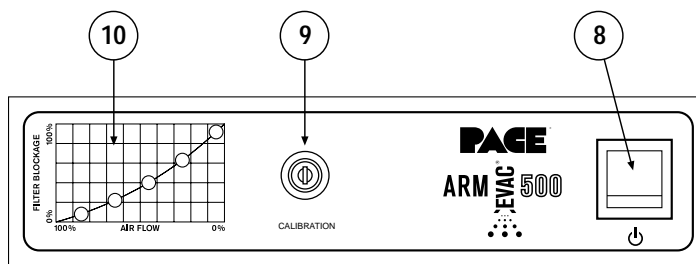
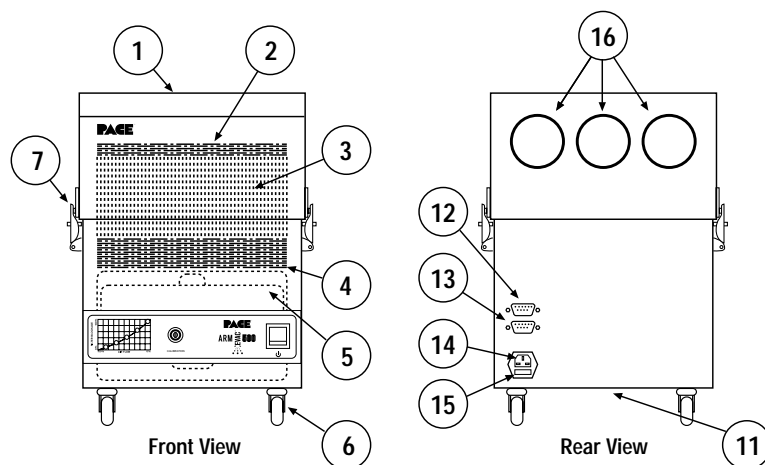
Optional Accessories	
Silencer/Mobile Cart:	PartNumber 8885-1255 Physical dimensions: 380mm x 445mm x 180mm (15" x 17.5" x 7") Comprised of 18 gauge steel with front locking casters and acoustical foam.

Supplemental Specifications	
Filter Condition Gauge:	Five (5) colour LED display
Filter Condition Pressure Sensor:	Laser trimmed thick film ceramic with integrated circuitry
Filter Condition Calibration:	Sequential multi-point self calibration for zero and span levels
Calibration Lockout:	Tamerproof keyed switch
Outputs:	Remote control and RS232C communications port

GENERAL INFORMATION

PARTS IDENTIFICATION

1. Filter Access Cover
2. Pre-Filter
3. HEPA Filter
4. Gas Filter
5. Motor Pump
6. Roller Casters
7. Cover Latch
8. Power Switch
9. Keyed Switch
10. Filter Condition Display
11. Exhaust Port (Underside)
12. REMOTE Connector
13. PC COMS Connector (RS232C)
14. Power Receptacle
15. Fuse & Fuse Holder
16. 75mm (3") Inlet Port



Arm-Evac 500 Front Panel

MAXIMUM NUMBER OF ACCESSORY CONNECTIONS

System	Arm Style	Maximum Number of Arm Connections
Arm-Evac 500	45mm (1.75") Arm	6
	50mm (2") Arm	6
	65mm (2.5") Articulated Arm	3
	75mm (3") Arm	3

Table 2: Maximum number of accessory connections

SAFETY AND APPLICATIONS

PACE Fume Extraction Systems are designed to reduce the level of harmful contaminants from the work environment and to assist in the achievement of recommended health and safety requirements for local exhaust ventilation and contaminant removal. Be sure to follow all Application and Maintenance guidelines contained herein and precautions contained in other relevant product safety literature (i.e. Material Safety Data Sheets) provided with the substances and equipment producing the fumes to be extracted.

DISCLAIMER

PACE hereby disclaims all responsibility for any personal injury, property damage, fine, citation or penalty imposed by any government or private entity which results from any use, misuse or mis-application of this product, failure of the user to regularly maintain the product according to the recommended guidelines, or failure to adequately monitor fume extraction exhaust air and the ambient workplace air for the presence of harmful levels of gases, fumes, and particulates.

Compliance with all applicable environmental and personnel safety regulations is the sole responsibility of the user and adequate self-monitoring of exhaust air released into the atmosphere or the workplace as well as monitoring of the ambient workplace air is strongly recommended. To ensure continued effective performance, the following guidelines must be followed.

SAFETY

Dangers

1. PACE Fume Extractors are not intended to be used as a substitute for devices such as personal protective respirators which are designed to remove poorly adsorbed substances including carbon monoxide, methane, hydrogen, acetylene and other gases. Risk of serious injury, death, fire or explosion may result from improper use. If in doubt, consult with your industrial hygienist or PACE
2. Never use PACE Fume Extraction Systems to extract fumes from highly flammable liquids and gases such as Ether, Gasoline (petrol) and others. Risk of serious injury, death, fire or explosion may result.
3. High concentrations of airborne contaminants such as Methyl Ethyl Keytone, Cyclohexone, Ozone and others, when contacted with activated carbon, can undergo oxidation, decomposition or polymerisation resulting in exothermic reactions or heat generation. PACE Fume Extraction Systems must not be used to extract fumes from these substances when high concentrations are present.
4. Failure to comply with the application and maintenance guidelines, filter replacement schedules, monitoring recommendations and safety guidelines contained herein and in other relevant product safety literature (i.e. Material Safety Data Sheets) provided with the substances and equipment producing the fumes to be extracted could result in risk of serious injury, fire or explosion.

SAFETY AND APPLICATIONS

WARNINGS

1. Do not attempt to clean any PACE fume extraction filters for reuse. Cleaning the filters will severely damage the filter media and, consequently, the filters performance. This will result in unfiltered, contaminated air being returned to the working environment. Unfiltered air can also damage the motor pump.
2. Use with inappropriate chemicals or substances, failure to provide regular maintenance or other misuse of your Fume Extraction System may result in contaminated air being recirculated into the work environment.

CAUTIONS

1. Failure to supply the correct voltage to the unit will result in damage to the motor.

NOTES

1. To ensure the highest level of performance, use only PACE replacement filters in your PACE Fume Extraction System.
2. BE SURE the new cartridge is installed with the airflow arrow pointing downward.

FILTER CARTRIDGE NOTES

PACE Fume Extraction Systems are equipped with filters designed to capture particulates and noxious gases and odours that are present in the air being filtered. The Fume Extraction Systems are equipped with combinations of pre-filters for coarse particle removal, HEPA filters for fine particle removal, and gas filter media to remove gaseous compounds. Over time, the HEPA filter will gradually become clogged, impeding air flow through the system, and the capacity of the gas filter will be reached, reducing its ability to continue to neutralise and adsorb noxious gases and odours.

Filter Cartridges *must be replaced at regular intervals* to ensure that the fume extraction system is operating effectively. These intervals will vary depending on the type of work being performed, the level of use, and the amount and composition of airborne contaminants produced.

The exhaust air stream from the central filtration unit as well as the ambient air in the workplace should be monitored with appropriate and adequate measuring/detection devices to assure compliance with all applicable Health & Safety Regulations.

Flammable vapours and gases (i.e. Isopropyl Alcohol) are removed by and accumulate in the gas portion of the Filter Cartridge presenting a potential fire hazard. Therefore, the user must exercise appropriate precautions when extracting such fumes or when handling or disposing of filters containing such flammable substances. *Follow all fire safety and personnel protection guidelines* contained in the Material Safety Data Sheet (MSDS) for the substance(s) producing the extracted vapours and gases (fumes).

SAFETY AND APPLICATIONS

When disposing of used filters, extreme care must be taken to comply with all applicable environmental regulations. Carefully consult the MSDS supplied with the material(s) producing the fume. If in doubt, check with your local Environmental Authority.

Extreme care must be exercised when disposing of a used Filter Cartridge containing potentially hazardous substances. When disposing of filters, appropriate and adequate personal protective equipment (i.e. gloves, respirators, plastic containment bags, etc.) must be used when hazardous substances such as asbestos, lead, radioactive or biohazard materials may be present. Consult the Material Safety Data Sheet (MSDS) of the materials generating the extracted fume.

INSTALLATION

GENERAL

The Arm-Evac 500 has been designed with maximum installation flexibility in mind. A number of configurations may be used. (See the 'Configurations' section). The following are recommended guidelines for setting up your system. If you have any specific questions that this section does not cover, please consult your PACE Representative or call PACE directly.

1. Placement

There are 3 major considerations that need to be addressed for proper placement of the Arm-Evac unit.

- **Exhaust Port:** this is located on the underside of the Arm-Evac unit. When positioning the unit make sure that the exhaust port is not blocked or that airflow from the exhaust port is not restricted in any way.
- **Unit Location:** the Arm-Evac unit should be positioned so that it will not block aisleways or impede normal operating traffic or material handling pathways. It is important to position the unit to allow for proper clearance to remove the filter access cover and replace the filter as needed.
- **Proximity to the work area:** the Arm-Evac unit should be positioned as close to the work area as possible. If using a flex hose, it is advantageous to keep the length of flex hose as short as possible. Do Not kink or create sharp bends in the flex hose, as this will reduce airflow.

2. *Power*

The Arm-Evac 500 will plug into a standard 110-volt, 60 HZ or 230-volt, 50 Hz electrical outlet, depending on the model you purchased. Be sure the unit you have is rated for the intended power supply.

Caution

Failure to supply the correct voltage to the unit will result in damage to the motor.

3. *Self-Calibration Procedure*

Important

This procedure must be performed on the Arm-Evac 500 before initial operation.

4. *Filters*

Before operating the unit, make sure the filters are correctly positioned. The pre-filter is always located on the top, and the direction of airflow is clearly marked on the filter cartridges. Airflow is always in a downward direction for the Arm-Evac 500.

5. *Inlet Caps*

If an inlet port is not connected to a collection device, it must be covered with the inlet cap provided.

6. *Ducting and Connections*

The Arm-Evac 500 can be installed using 75mm (3") flexible hose and connecting parts. Install the flexible hose from the Arm-Evac 500 inlet port(s) to the accessory connections. Three 75mm (3") inlets are provided on the back of the housing on the Arm-Evac 500.

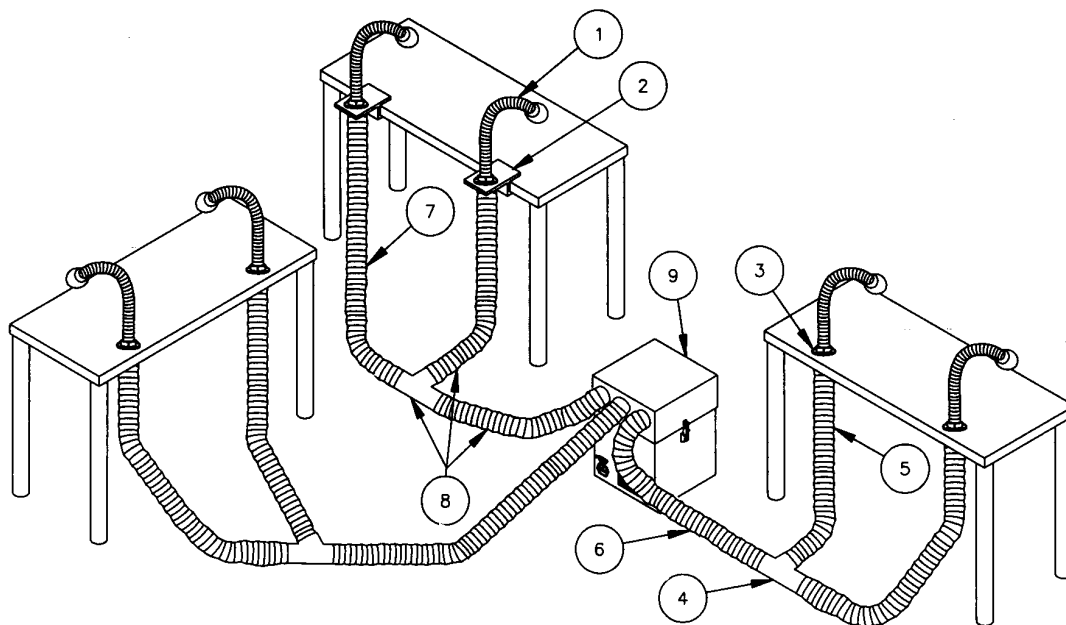
INSTALLATION

CONFIGURATIONS

Connecting more than three Static-Safe Metal Flex Arms

To connect several Static-Safe Metal Flex Arms to an Arm-Evac 500, the Metal Flex Arm Expansion Kit (P/N 8882-0692) must be used. The Expansion Kit allows 2 Metal Flex Arms to be connected to one Arm-Evac 500 inlet port. Refer to the illustration below when installing static safe metal flex arms using the Expansion Kit. Remember to keep the flexible hose sections as short as possible to ensure maximum performance.

- | | |
|--|--|
| ① Static-Safe Metal Flex Arm
(P/N 8886-0429) 45mm
(P/N 8886-0550) 50mm | ⑤ 75mm (3") Flex Hose with 75mm (3") to 50mm
(2") reducer, 1m (3') long |
| ② Bench Mounting Bracket
(P/N 8886-0552) | ⑥ 75mm (3") Flex Hose, 2.5m (8') long |
| ③ Mounting Flange | ⑦ 75mm (3") Flex Hose with 75mm (3") to 50mm
(2") reducer, 2.5m (8') long (P/N 8886-0299) |
| ④ "Y" Fitting | ⑧ Expansion Kit P/N 8886-0692 (includes items 4, 5, 6) |
| | ⑨ Arm-Evac 500 |



Six Static-Safe Metal Flex Arms Connected to an Arm-Evac 500 using Expansion Kit

ARM-EVAC 500

Self Calibration Feature

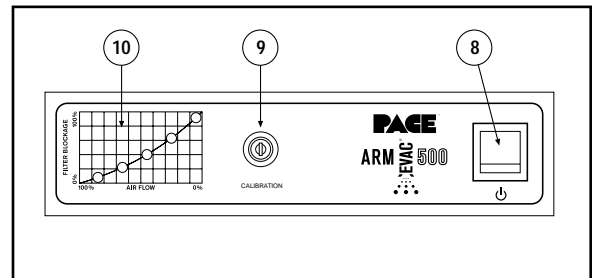
The Arm-Evac 500 contains advanced microprocessor-based sensing technology which allows for self-calibration of the filter condition monitor by establishing clean filter air flow conditions (that is, 0% filter blockage) and fully clogged filter flow conditions (that is 100% filter blockage). Further, this procedure insures that the air flow sensing process is consistent with and particular to the accessory configuration array and filters being used.

Self Calibration Procedure

NOTE

This procedure must be performed on the Arm-Evac 500 before initial operation, whenever a filter changeout occurs and whenever a change in the system configuration occurs. DO NOT make any adjustments to the accessory configurations during calibration as this will disrupt the self-calibration process.

- 1) The normal operating position of the keyed switch (item 9) is in the vertical position.
- 2) The Keyed Switch is supplied with 2 identical keys. To start the self-calibration procedure, insert the key into the switch. Turn the Keyed Switch 1/4 turn clockwise (from the normal vertical position).
- 3) Turn the Power Switch (item 8) to the On ("I") position (Green switch light illuminates). An audible single beep followed by a double beep signals initiation of the self-calibration procedure. The LED lights will sequence from Green to Amber to Red on the Filter Condition Gauge (item 10) several times.
- 4) The self calibration procedure will require a running time of approximately 2 minutes in order to establishing clean filter air flow (0% filter blockage) as well as fully clogged filter levels.
- 5) When far right LED remains illuminated, the self-calibration procedure is complete. To initiate normal operation, turn power switch to off position, return keyed switch to normal vertical position and turn power switch on. The Green LED will illuminate and normal operation will resume. To ensure tamperproof operation, the key can be removed from the switch.
- 6) Daily operations can be initiated by simply turning the Power Switch (illuminates Green when On) to the "On" ("I") position. A single beep will sound when the Arm-Evac 500 is turned on.



OPERATION

Arm-Evac 500 Filter Condition Display

The Arm-Evac 500 has a graphical Filter Condition Display which continuously monitors filter condition. As the system filter(s) collect particulates, LEDs on the Filter Condition Display will illuminate along the graphical curve of the display.

Initially, a Green LED will illuminate (at bottom of graph). As the air flow rate decreases (as the filter(s) start to become clogged), LEDs will illuminate high on the graphical curve.

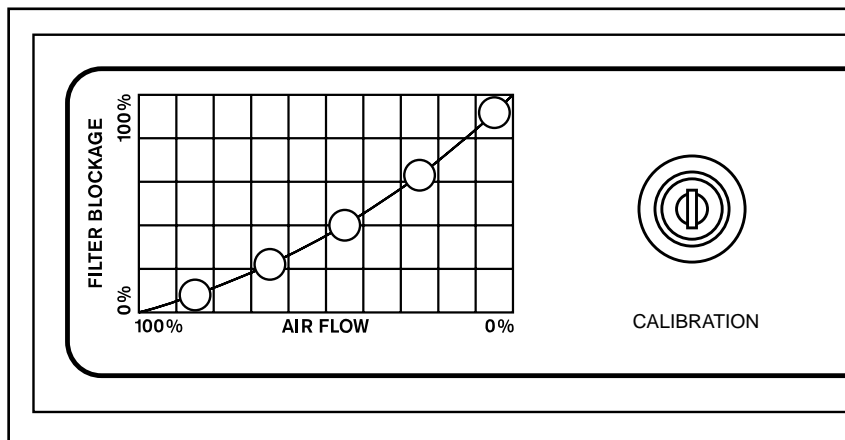
Illumination colours will darken to shades of Yellow and finally to Red as the illumination reaches the top of the graphical curve.

When the first Red LED illuminates, it is indicating insufficient air flow. Replacement of the filter(s) at this point is highly recommended. Refer to "Filter Replacement", page 12.

If the last Red LED (at the upper right of display) illuminates, an alarm will sound. Immediately, turn system power off (Power Switch) and change filters.

CAUTION

Overheating may occur and cause motor damage if the system is operated with completely clogged filters



Optional Benchtop Controller for Arm-Evac 500

An optional Benchtop Controller (P/N 8884-2260) is available for the Arm-Evac 500 to enable convenient surveillance of the filter condition display (refer to next page).

Setup/Operation

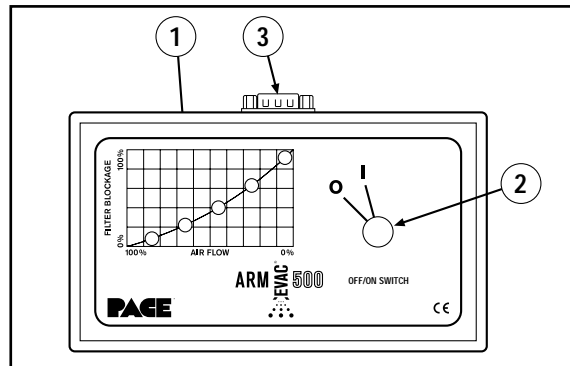
Use the following procedure to set up and operate the Remote Control. Refer to illustration below.

- 1) Attach one end of the Benchtop Controller Cable to the connector located on the back of the Arm-Evac 500 identified as “Remote”.
- 2) Attach the other end of the Benchtop Controller Cable to the connector located on the Benchtop Controller (item ③ below).
- 3) Position the Benchtop Controller in convenient location.
- 4) Once the cables are connected, assume normal operating procedures.

Notes

Once connected to the Arm-Evac 500, the Benchtop Controller will over-ride all controls with the exception of the keyed calibration switch and Green lighted Power Switch.

If the self-calibration procedure is initiated while the Benchtop Controller is connected, the LED Display on the Benchtop Controller will mimic the filter condition gauge (refer to item ① below) as identified in the “Arm-Evac 500 Self-Calibration Procedure”.



Arm-Evac 500 RS232C Output for ISO 14000 Software

The Arm-Evac 500 has a microprocessor integral with its electronic control circuitry which can transfer data to support ISO 14000 documentation requirements. The output connector (marked “PC COMS”) on the back of the Arm-Evac 500 and cable connection provides a communication link for transfer and storage of data to a computer.

Contact your local PACE representative or contact PACE directly to obtain detailed operating instructions.

MAINTENANCE

GENERAL TIPS

- Before opening the Arm-Evac 500, always turn off the power source.
- Protect the Arm-Evac 500 and accessories from dampness.
- Do not extract water vapour or steam.
- The Arm-Evac 500 must not be used without filters. Impurities in the extracted air can damage the motor pump.
- Do not allow the Arm-Evac 500 or ducting hoses to become blocked.
- Do not extract corrosive compounds without checking with PACE.
- Recalibrate the Arm-Evac 500 whenever a filter change or system configuration change occurs.
- Never operate the Arm-Evac 500 without a filter installed.

FILTER REPLACEMENT

Pre-Filter

This filter removes coarse particles from the air. In general, the pre-filter must be changed on a monthly basis. However, depending on your particular process, the filter may need to be changed more or less frequently. A visual inspection on a weekly basis is recommended.

Main Filter

Fume extraction filters remove particulates from the air and capture noxious odours and gases. Depending on your particular process, the filter cartridge may need to be changed more or less frequently.

Replacement Procedure

- 1) Turn Power Switch to the Off ("O") position.
- 2) Remove the Filter access cover.
- 3) Remove the old Filter cartridge (or cartridges).
- 4) Install a new Filter (or filters). Ensure that the Pressure Tube (black coiled cable inside filter compartment) does not become kinked when the new Filter is installed.
- 5) Replace the Filter access cover.
- 6) Dispose of used Filters properly.
- 7) Recalibrate according to Set-Up Procedure (see Page 9)
- 8) Resume normal operation.

Important

Be sure the new filter cartridge is installed with the airflow arrow pointing downward and Pressure Tube does not become kinked.

FUSES

Arm-Evac 500

The fuse is located in a sliding tray at the rear of the Arm-Evac 500, just below the power receptacle. Each Arm-Evac 500 is supplied with one replacement fuse, also located in the sliding tray.

Replacement fuses are available for the Arm-Evac 500 systems in packages of 5 fuses.

230 VAC systems (part number 8889-0500) come standard with a 3.15 amp fuse, part number 8884-9966-P5.

110 VAC systems (part number 8889-0505) come standard with an 8 amp fuse, part number 8884-9961-P5.

MOTOR

Fume Extractor Motors are maintenance-free, brushless single inlet fans which do not require routine maintenance. It is important that fume extractor filters are changed on a regular basis to protect the motor impellers from pollutants.

ACCESSORIES

Monthly cleaning of the Arm-Evac 500 extraction accessories is recommended. Arm-Evac accessories should be cleaned with a non-aggressive cleaning solvent or detergent only. Make sure the Arm-Evac accessories are completely dry before re-use.

REPLACEMENT FILTERS

System	Pre-Filter Part Number	General Purpose HEPA Part Number	Gas Filter Part Number	Clean Room HEPA Part Number
Arm-Evac 500	8883-0145-P10 (Pkg. of 10)	8883-0955 (Pkg. of 1)	8883-0956 (Pkg. of 1)	8883-0965 (Pkg. of 1)

Table 3: Replacement Filters

WARRANTY

LIMITED WARRANTY

PACE warrants to the first user that this equipment will be free of defects in materials and workmanship for a period of one (1) year from the date of receipt by such user.

This warranty does not cover repair or replacement required as a result of misuse, mishandling or improper storage. Failure to perform recommended routine maintenance, alterations or repairs made other than in accordance with PACE's directions, or removal or alteration of identification plates in any way will void this warranty. This warranty is available only to the first user, but the exclusions and limitations herein apply to all persons and entities.

This warranty does not apply to consumable items such as tips, filter elements, hoses, collection chambers, etc., except that heaters are normally warranted for a period of six (6) months from the date of receipt by the first user.

PACE MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

PACE will, at its option, repair or replace any defective equipment or parts at its facility or other location approved by it at no charge to user, or provide parts without charge for installation by the user in the field at user's expense and risk. User will be responsible for all costs of shipping equipment to PACE or other location for warranty service.

EXCEPT FOR THE REMEDY ABOVE DESCRIBED, UNLESS OTHERWISE REQUIRED BY APPLICABLE LAW, PACE WILL HAVE NO OTHER OBLIGATION WITH REGARD TO ANY BREACH OF WARRANTY OR OTHER CLAIM WITH RESPECT TO THE EQUIPMENT, OR LIABILITY FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, OR INCIDENTAL LOSS OR DAMAGE CAUSED BY OR OCCURRING IN CONNECTION WITH ANY OF THE EQUIPMENT.

To obtain warranty service, contact the appropriate PACE company listed below or your local Authorized PACE Distributor to determine if return of any item is required or if repairs can be made by the user in the field:

PACE, INCORPORATED 9893 Brewers Court Laurel, Maryland 20723
Telephone: (301) 490-9860 WARRANTY SERVICE FAX: (301) 604-9215

PACE EUROPE LIMITED Sherbourne House Sherbourne Drive Tilbrook Milton Keynes, Buckinghamshire England MK7 8HX
Telephone: (44) 01908 277 666 WARRANTY SERVICE FAX: (44) 01908 277 777

Do not return defective parts or equipment to PACE or your local Authorized PACE Distributor without obtaining prior authorization.

Any warranty or other claim with respect to the equipment must be made in writing delivered to PACE (or your local Authorized PACE Distributor outside the U.S.) within a reasonable time of the expiration date of this warranty with sufficient evidence of purchase and date of receipt, otherwise user's rights under this warranty shall be deemed waived.

To register your purchase with PACE, fill in the form below and mail or FAX to the applicable PACE address listed above.

EQUIPMENT WARRANTY REGISTRATION CARD

Model No.	Serial No.	Date of Receipt	
Purchased from	Purchased from		
Company Name	Company Name		
Mailing Address	Mailing Address		
City	State	Country	Zip/ Postal Code
Telephone number with area code	Fax number	Internet Address	
Full name	Authorized Signature, Title		