READ THIS FIRST

AXIAL BLOWER **NanoP8XE**

SUPERVAC

DANGER

PERSONAL RESPONSIBILITY CODE

The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

1. Firefighting and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.

2. It is your responsibility to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called upon to use.

3. It is your responsibility to know that you have been properly trained in Firefighting and/or Emergency Response and in the use, precautions, and care of any equipment you may be called upon to use.

4. It is your responsibility to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.

5. It is your responsibility to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.

6. Failure to follow these guidelines may result in death, burns or other severe injury.

FEMSA

Fire and Emergency Manufacturers and Services Association, Inc.P.O. Box 147, Lynnfield, MA 01940 www.FEMSA.org

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USER GUIDE

This manual covers the description, operation and maintenance of the Super Vac NanoP8XE Axial Blower.

The NanoP8XE portable blower is specifically designed to provide a completely portable source of fresh air. This manual covers both a 120V AC, 60Hz electrical source and a 220V 50Hz electrical source. Check model number and plug to match correct power source.

WARNING *Read this manual before operating blower.*
Save this guide for future reference.

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1. BREAKAGE OR DAMAGE DURING SHIPMENT

The transportation company is fully responsible for all shipping damage and will resolve problems promptly if you handle it correctly. Please read these instructions carefully.

Examine the contents of all shipping cases. If you find any damage, call your transportation agent at once and have them make a description on the freight or express bill describing the damage and the number of pieces. Then write us and we will send you the original bill of lading. Get a claim blank from the express or truck company. Fill the claim form out. Attach the claim blank to the original bill of lading together with a copy of our invoice. Attach a memo on which you show the value of the damaged goods. Mail or hand these papers to your local transportation agent. They will process your claim with reasonable promptness.

Please note, we cannot and will not enter claims for damages. If we filed claim here, it would be sent to your local freight agent for verification and investigation. This time can be saved by your filing the claim directly. Every consignee is on the ground floor and in contact with the local agent who inspects the damaged goods, and thus, each claim can be given individual attention.

Since our goods are packed to comply with the regulations of all railroad, truck, and express companies, we cannot allow deduction from any invoice because of any damage, however, be sure to file your claim promptly. Our goods are sold F.O.B. factory. We take receipt from the transportation company certifying that the goods were delivered to them in good order, and our responsibility ceases.

It is seldom that any breakage or damage occurs in any of our shipments, and in no case will the customer be out any expense if they follow the above instructions.

Be sure to keep all damaged goods subject to examination of the truck or express company inspector, who may call on you some time later. These damaged goods, of course, will belong to them, and they will inform you what to do with them. If you dispose of these damaged goods, your claim may not be paid.

2. PRODUCT DESCRIPTION AND SPECIFICATIONS:

THE SUPER VAC NANOP8XE AXIAL BLOWER (P/N 071-14434)

1. The NanoP8XE Blower is a single-speed, blower for use in Hazardous Locations (Class 1, Group D).

2. The housing of the NanoP8XE is constructed of high density polyethylene (HDPE) that has been modified to be conductive. Conductive HDPE is always black in color due to the addition of graphite for conductivity. HDPE has a high resistance to chemicals and extreme temperatures, while maintaining a superior weight to strength ratio.

Model #	Weight	HxWxD	Motor	Amps	Output	One 90º Bend	Two 90º Bends
P8XE	22 lbs *10 kg*	11.5" x 10.75" x 16" *292mm x 273mm x 406mm*	1/3 HP, hazardous location rated for Class 1 Group D, 60Hz, 115V AC	4	1,037 cfm *1,760 cmh*	817 cfm *1,388 cmh*	723 cfm *1,228 cmh*
			1/3 HP, hazardous location rated for Class 1 Group D, 50Hz, 220V AC	2.4	864 cfm *1,470 cmh*	680 cfm *1,157 cmh*	600 cfm *1,023 cmh*

3. SAFETY PRECAUTIONS: ⚠WARNING

FOR YOUR SAFETY, READ THE FOLLOWING SAFETY PRECAUTIONS:

- Do not use the blower for other than its intended use.
- Do not wear loose clothing that can become entangled in operating machinery. Do not operate blower without inlet or outlet screen guards in place. (if guards are missing or damaged, contact factory for replacements).
- Do not place fingers or any other object through inlet or outlet screens.
- Never use cords with frayed, cut, or brittle insulation. Check the cord for sound connections to the ground fault interrupter receptacle.

GROUND FAULT CIRCUIT INTERRUPTER

Always operate a blower from a 120VAC or 220VAC source supplied through a ground fault circuit interrupter receptacle, test receptacle for ground fault before plugging in the blower.

WET HANDS

Never handle energized cords with wet hands.

WATER

Never let extension cords or plug connection lay in water. Locate the blower so that it cannot fall into water inadvertently.

EXPLOSIVE ATMOSPHERE

This blower has been designed for use in Hazardous Locations listed as Class 1, Division 1, Group D.
Always connect to power in a safe environment.

4. BEFORE OPERATING BLOWER CAUTION *READ ENTIRE START UP & OPERATING PROCEDURE BEFORE OPERATING BLOWER.*

PRE-START PROCEDURE (ATTACH/DETACH PROCEDURE FOR OPTIONAL DUCTING)

1. TO ATTACH: Place belted cuff end of ducting around fan snout making sure the belt is placed on the narrow neck of the snout. Tighten belted cuff snugly. Check for proper attachment. Attach the GROUND clip from the ducting to the GROUNDING stud on the blower.

2. TO DETACH: TO DETACH: Loosen belted cuff, remove ducting.

PRE-START PROCEDURE CAUTION

CAUTION: READ, SAFETY PRECAUTIONS

1. The blower should be placed 5' upwind where possible from the confined space, and should be pointed into the wind. This will reduce the chance of contamination being blown into the confined space.

2. Check blower inlet and outlet guard screens for obstructions. Check immediate area around blower for objects that could be sucked into the blower inlet and remove from area.

5. OPERATION

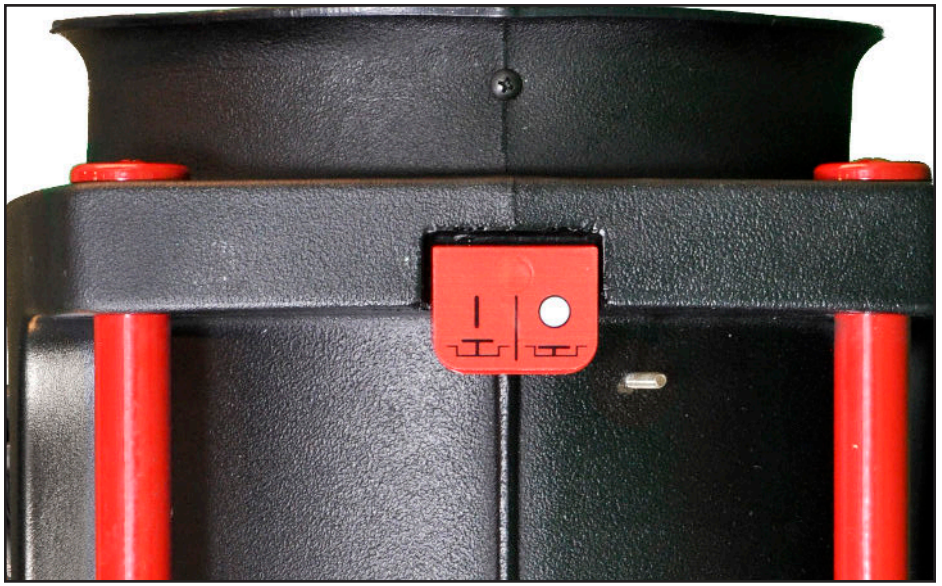
START PROCEDURE

1. **CAUTION** Plug in blower power cord to a GFI protected 120V or 220V AC outlet. NEVER PLUG IN THE POWER CORD IN A HAZARDOUS LOCATION. IF IN DOUBT, CONNECT TO A NON-ENERGIZED SOURCE FIRST, THEN ENERGIZE THE SOURCE.

2. **WARNING** Extend and place blower hose as required. BE SURE NO TOXIC FUMES ARE BLOWN INTO A CONFINED SPACE.

3. Pull up on the start switch.

4. Unattended use of equipment is not recommended.



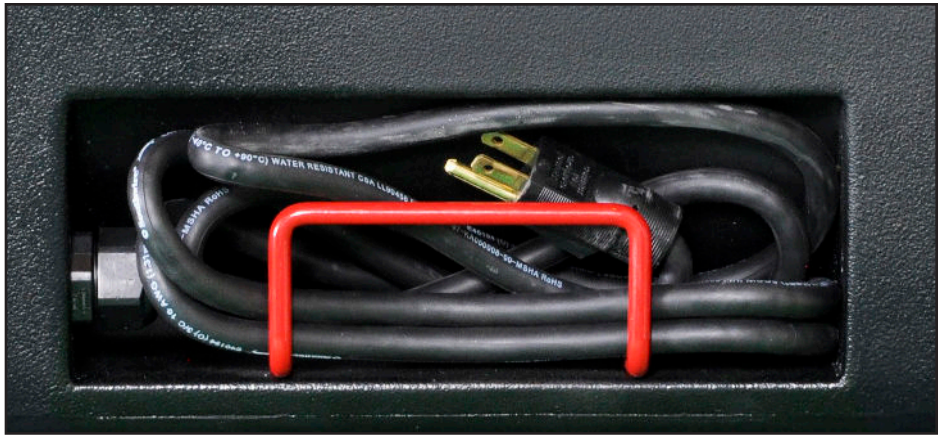
SHUT-OFF PROCEDURE

When blower operation is no longer required:

1. Push down on the Start Switch

2. Unplug the power cord.

3. Coil and store the power cord in the molded side pocket.



7. MAINTENANCE AND REPAIR CAUTION

Be sure the blower is disconnected from the power source before doing any maintenance or repair work on the blower.

Check all power cords for cuts, frayed ends, or brittle insulation. See the enclosed parts list for the replacement cord part number.

If you have any questions about the suitability of this blower for use, please contact Super Vacuum Manufacturing.

For parts or service information, contact:

SUPERVAC

Super Vacuum Manufacturing Company, Inc.
Service Department
3842 Redman Dr.
Fort Collins, CO 80524

Phone: 800-525-5224
970-297-7100

Fax: 970-297-7099

Email : info@supervac.com
Internet: www.supervac.com

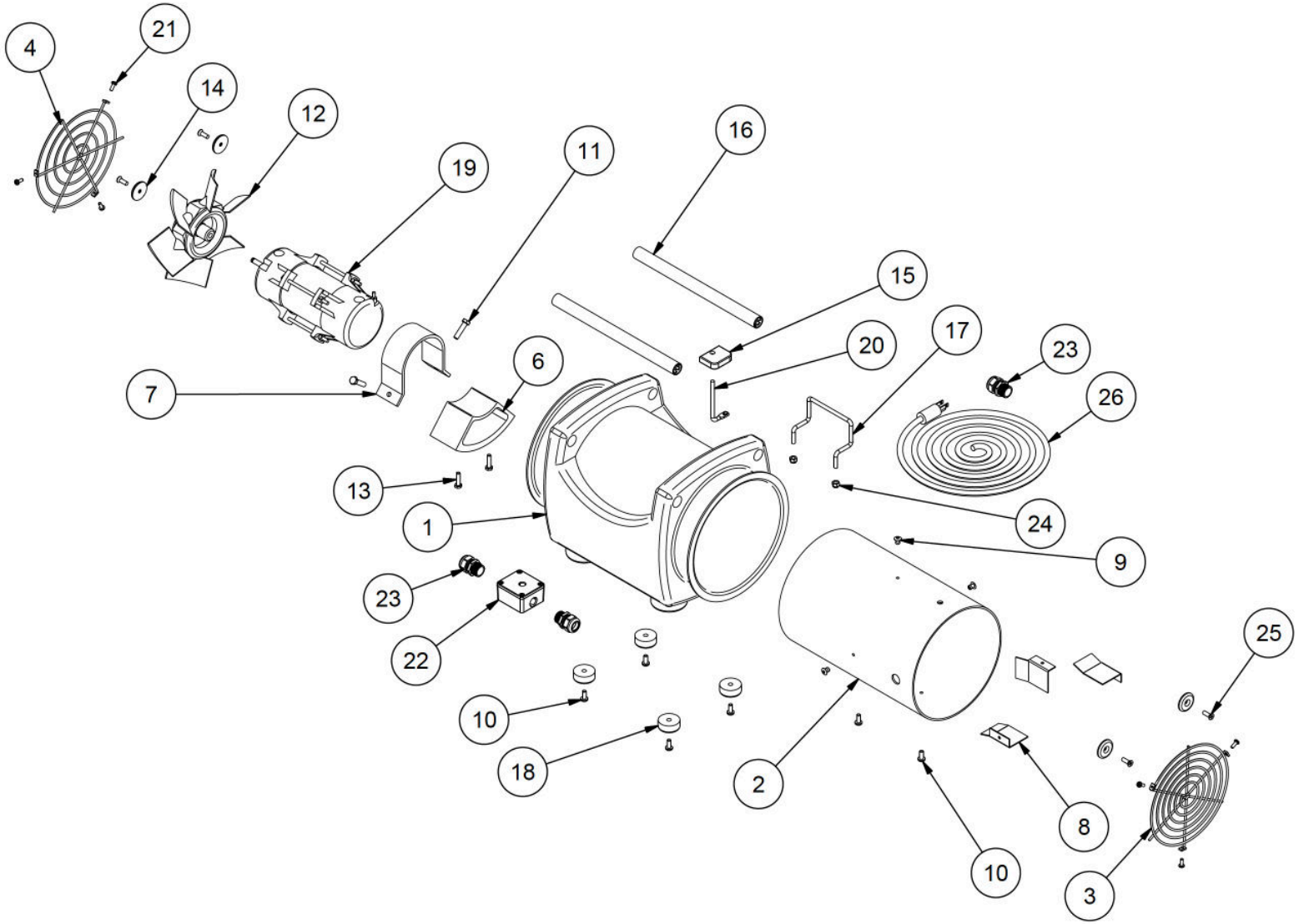
8. TROUBLESHOOTING

CAUTION: Motors are equipped with thermal overload protection. When internal motor temperature exceeds design limits, the motor will automatically shut off. Motor will automatically restart when it cools sufficiently after overheating. Remove power cord plug from AC receptacle before examining or working on a motor which has stopped because of overheating. Thermal overload protection sensitivity increases with frequency. Take preventative steps to correct cause of overheating to assure long motor life.
Most overheating problems are associated with the use of portable power generators as the ventilator power supply.

COMMON CAUSES OF MOTOR OVERHEATING:

- Power generator not providing constant voltage. Ventilators are equipped with AC motors designed to operate on power that falls between ±3% of design specifications.
- Using too small gauge of extension cord.
- Exceeding maximum length extension cord.
- Insufficient unobstructed distance on exhaust side of ventilator. Please refer to the Super Vac Training Manual for Smoke Ventilation for recommended ventilator placement.
- Insufficient wattage generator. When running multiple ventilators on one generator, plug ventilators in one at a time. Wait until first ventilator is running at full speed before connecting next ventilator to generator. Do not exceed generator capacity.
- Using accessory ducting of too small a diameter or excessive length.
- Incorrect amperage circuit breaker for circuit load
- Using reeled or coiled extension cords.

8. PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	018-12001	HOUSING, NANO, CONDUCTIVE BLACK
2	1	018-12003	HOUSING, BLACK PIPE, NANO TUBE FINISHED
3	1	012-00019	GUARD, NANO, FRONT, RAW
4	1	012-00020	GUARD, NANO, REAR, RAW
6	1	019-15094	MOTOR MOUNT, DC NANO
7	1	019-15095	MOTOR MOUNT CAPS, NANO
8	3	018-12004	FIN, NANO, UNPAINTED
9	3	035-11125	BLIND RIVET, 6-6 SS
10	6	032-10725	SCREW,PHP,1/4-20 UNCx0.625
11	2	032-10779	SCREW,HH,5/16-18x1-1/4,SS
12	1	003-15318	BLADE, PLASTIC, CONDUCTIVE, 50 DEG, NANO
13	2	032-10745	SCREW,HH,1/4-20x1,SS
14	4	008-11110	CAP,HANDLE,NANO
15	1	008-11107	PADDLE,SWITCH,NANO
16	2	019-15096	NANO RED HANDLES
17	1	024-10532	CORD HOLDER, NANO
18	4	008-11100	FEET, ROUND, 2", BLACK, NANO
19	1	021-10504 021-10505	MOTOR, 1/3 HP, EXP, NANO P8XE 110V MOTOR, 1/3 HP, EXP, NANO P8XE 220V
20	1	008-11106	SWITCH ROD, NANO, THREADED
21	6	034-10963	SCREW,PHP,10-24 UNCx0.5
22	1	008-11117	ENCLOSURE BOX, EXP, NANO
23	3	008-11113	SEALCON, STRAIGHT, 9/16, CD-16NA-BK
24	2	034-11033	SCREW, 1/4-20 X 3/4, PHILLIPS OVAL, ZINC
25	4	032-10734	SCREW,FHPMS,1/4-20 UNC x 3/4 in,SS
26	1	005-10154	CORDSET, 16/3, 8' BLK SO, NANO

9. EXPLODED VIEW