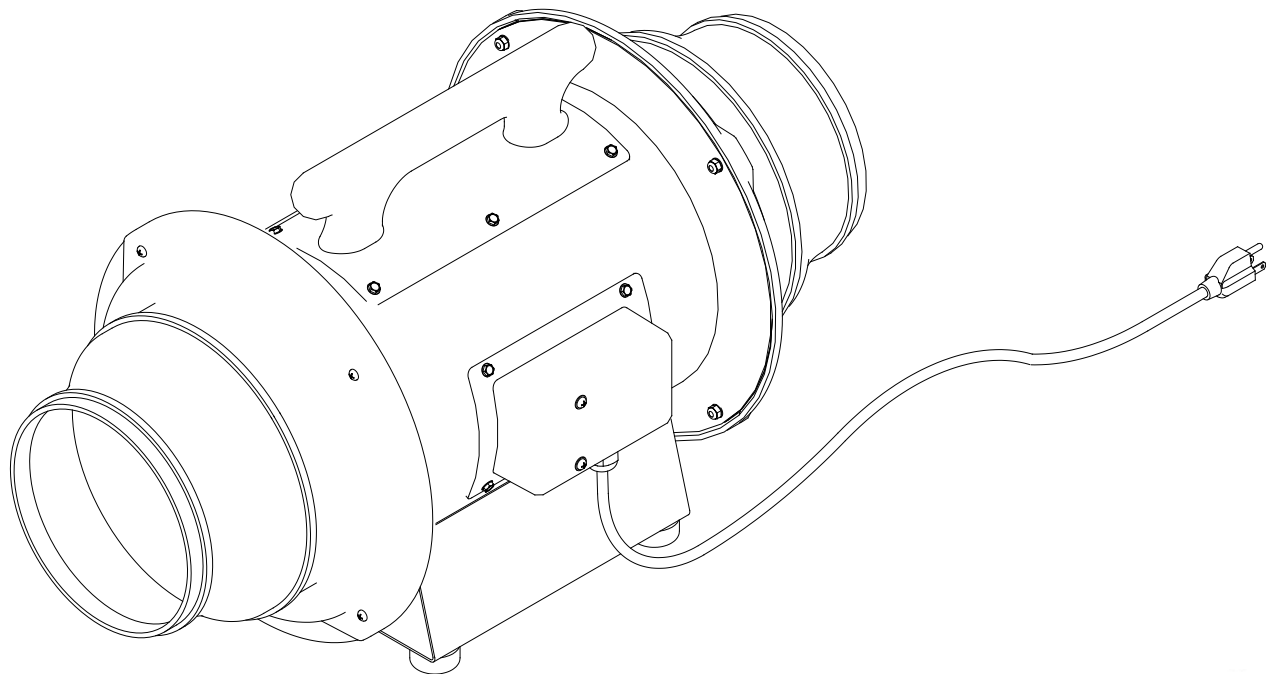




OPERATING INSTRUCTIONS AND REPLACEMENT PARTS

Models: SVF-10E and SVF-10AC50



WARNING

This manual must be read carefully and followed by all persons who have or will have the responsibility for using or servicing this equipment. This equipment will perform as designed only if used according to the instructions. Otherwise it could fail to perform as designed, causing personal injury or death.

AIR SYSTEMS INTERNATIONAL, INC.

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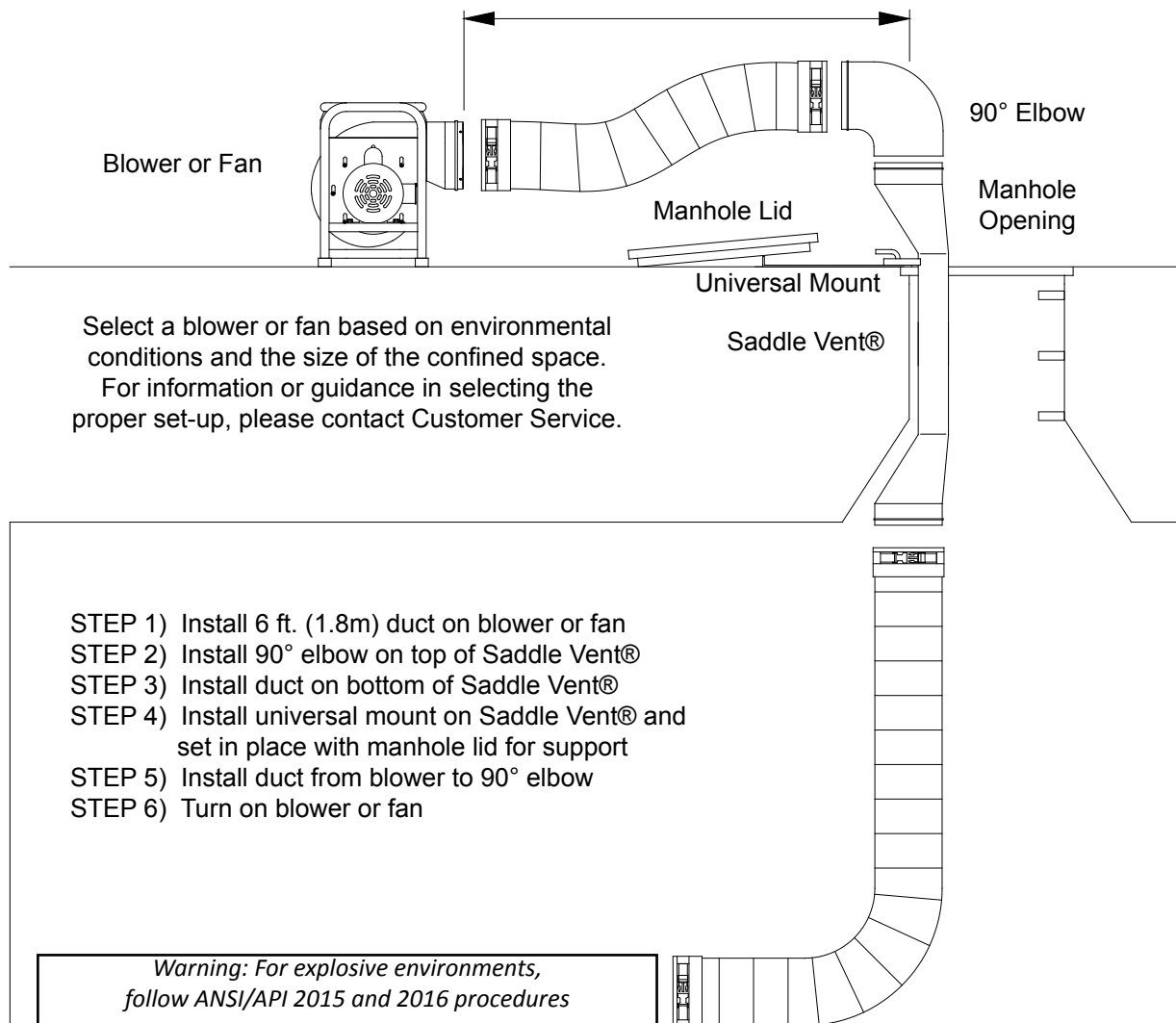
www.airsystems.com.

e-mail: sales@airsystems.com

The Saddle Vent® Ventilation System

Typical Saddle Vent® Setup Procedure

Place fan or blower a minimum of
5 ft. (1.6m) from manhole opening



WARNING: HAZARDOUS LOCATION OPERATIONS

Use an explosion-proof or intrinsically safe blower or fan, conductive ducting, and The Conductive Saddle Vent® System. Attach all grounding wires and assure a complete circuit to the blower or fan in order to remove static charges.

The Saddle Vent® is a registered trademark of Air Systems International, Inc.
The Conductive Saddle Vent® is covered by U.S. and Foreign Patents



SAFETY PRECAUTIONS



READ AND FOLLOW ALL INSTRUCTIONS BELOW

All ventilation procedures should comply with federal, state, and local regulations. Air quality should be tested prior to ventilating a confined space. Air quality should be tested continuously during confined space occupancy to ensure a stable atmosphere and worker safety as atmospheric conditions can change rapidly. Additional procedures and recommendations are available from federal, state, and local agencies. **DO NOT** operate these fan units in a vertical position or with the flange or guards removed.



WARNING



Fan and blower models with the "EX" or "X" designation are the only models approved for use in hazardous locations.

If volatile or explosive vapors are suspected, use Air Systems' explosion proof electric blower, Model SVB-E8EXP, explosion proof in-line fan, Model SVF-10EXP, explosion proof contractors fan, Model CVF-8EXP or Air Systems' intrinsically safe pneumatic blower, Model SVB-A8.

Note: For confined space ventilation in non-hazardous locations, use Air Systems' confined space ventilation kit, Model SV-CUP. For hazardous locations use ventilation kit, Model SV-CUPCND along with one of the above explosion proof blowers or fans.



WARNING



Explosion proof models should be fitted with an approved explosion proof plug. The plug should **NOT** be connected or disconnected in an explosive environment when the blower is energized. The use of conductive ducting is recommended when operating in potentially explosive environments. Install grounding cable from blower to a grounded source.

Specifications

| | |
|--------------------------|--|
| SVF-10E Motor Type | 115 VAC/60 Hz, 1/3 HP |
| SVF-10AC50 Motor Type | 220 VAC/50 Hz, 1/3 HP |
| Outlet Size | 8" Diameter (203 mm) |
| SVF-10E Flow Rates | Free Air: 868 CFM (1468 CM/HR.) 15 ft. of duct with one 90° bend: 648 CFM (1101 CM/HR.) 15 ft. of duct with (2) 90° bends: 589 CFM (1001 CM/HR.) |
| SVF-10AC50 Flow Rates | Free Air: 723 CFM (1228 CM/HR.) 15 ft. of duct with one 90° bend: 540 CFM (917 CM/HR.) 15 ft. of duct with (2) 90° bends: 491 CFM (834 CM/HR.) |

Setup And Operation

STEP 1)

Place fan in a clean, fresh air environment.

Note: Inspect fan for damaged or worn parts. Inspect all ducting and couplings for possible air leaks prior to fan operation.

Note: Air quality of the confined space should be tested prior to ventilation. If air quality of the confined space is unacceptable, consult a trained professional.

STEP 2)

Install duct cuff to exhaust flange and tighten cinch strap. Keep bends and kinks in ducting to a minimum to maximize air flow.

STEP 3)

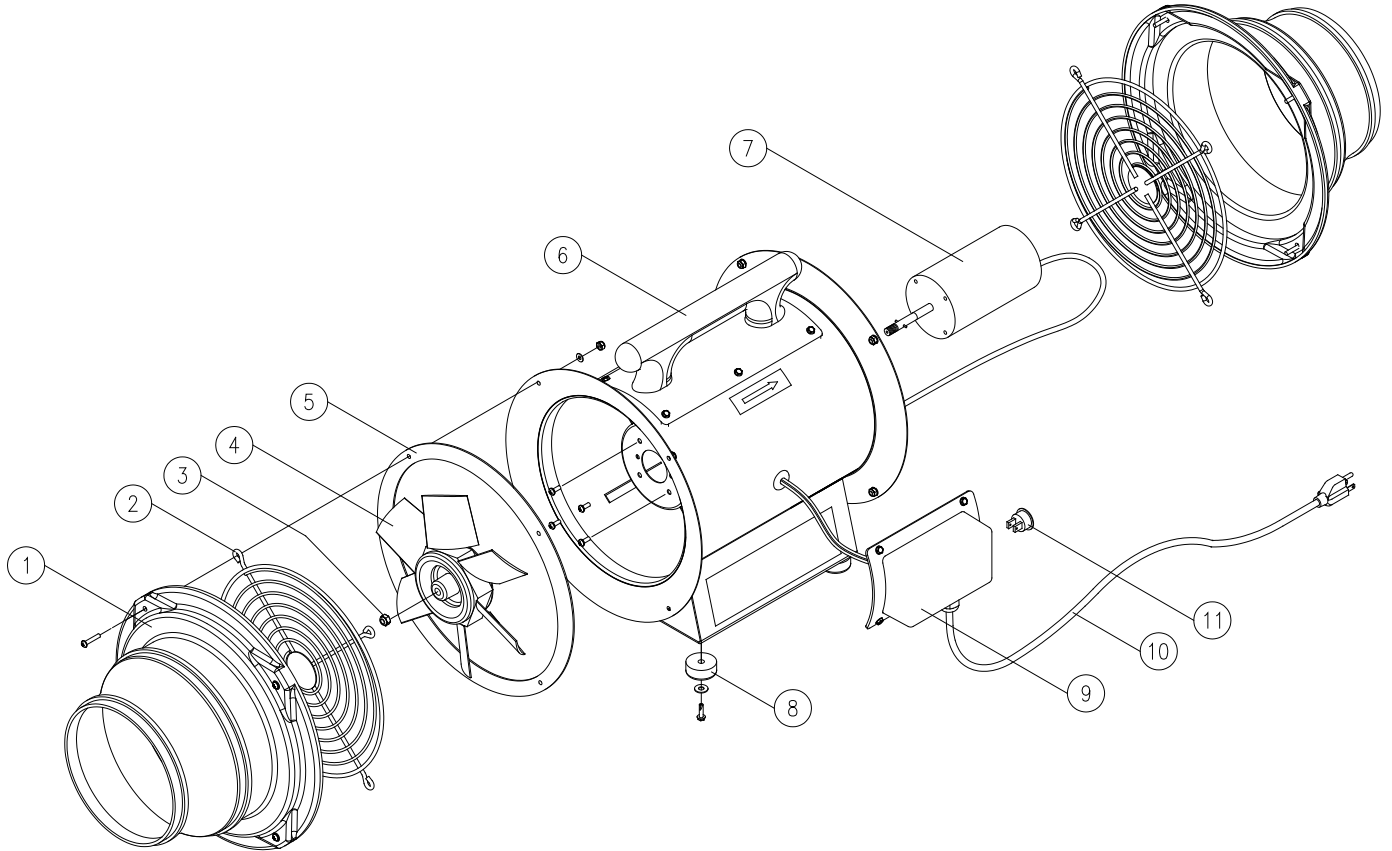
Connect power cord to a 115 VAC/60 Hz receptacle for model SVF-10E or to a 220 VAC/50 Hz receptacle for model SVF-10AC50.

NOTE: If an extension cord is to be used, the minimum recommended size is 14 AWG up to 25 ft. For longer cords, refer to the National Electric Code tables, Article 400.

Troubleshooting

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|--|
| Excessive vibration | Air intake blocked | Turn fan off and clear debris from intake. |
| | Possible internal damage | Turn off and inspect fan blades, shaft, and housing for debris, damage, and loose screws. Note: Never run fan for extended periods without installing duct on the exhaust flange. |
| | Possible external damage | Turn fan off and inspect for loose guards, broken welds, etc. |
| Circuit breaker trips | Voltage output insufficient | Test outlet with volt meter. |
| Automatic thermal overload in motor trips | Extension cord is not of sufficient gauge | Eliminate extension cord and restart or obtain extension cord of sufficient gauge |

System Components



| ITEM # | DESCRIPTION | SVF-10E | SVF-10AC50 |
|--------|-----------------------------------|------------|------------|
| 1 | 8" TO 10" DUCT TRANSITION | SVF-108ADP | SVF-108ADP |
| 2 | FAN GUARD | MGDAXFAN1 | MGDAXFAN1 |
| 3 | M8 X 1.25 RETAINING NUT FOR FAN | FNM8X1.25E | FNM8X1.25E |
| 4 | FAN | SVF-FAN | SVF-FAN |
| 5 | INLET/OUTLET GASKET | ILF-G | ILF-G |
| 6 | HANDLE | SVF-10HNDL | SVF-10HNDL |
| 7 | ELECTRIC MOTOR AND CAPACITOR | SVF-10E-MA | SVF10E50MA |
| 8 | RUBBER FOOT | HDWR026 | HDWR026 |
| 9 | CAPACITOR (INSIDE ELECTRICAL BOX) | MTR043CNC | MTR043CNC |
| 10 | POWER CORD | ELCB012 | ELCB012EF |
| 11 | ON/OFF SWITCH | ELSW038R | ELSW038R |

Warranty

Air Systems' manufactured equipment is warranted to the original user against defects in workmanship or materials under normal use for one year from the date of purchase. Any part which is determined by Air Systems to be defective in material or workmanship will be, as the exclusive remedy, repaired or replaced at Air Systems' option. This warranty does not apply to electrical systems or electronic components. Electrical parts are warranted, to the original user, for 90 days from the date of sale. During the warranty period, electrical components will be repaired or replaced at Air Systems' option.

NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER IS GIVEN BY AIR SYSTEMS IN CONNECTION HEREWITH. UNDER NO CIRCUMSTANCES SHALL THE SELLER BE LIABLE FOR LOSS OF PROFITS, ANY OTHER DIRECT OR INDIRECT COSTS, EXPENSES, LOSSES, OR DAMAGES ARISING OUT OF DEFECTS IN, OR FAILURE OF THE PRODUCT OR ANY PART THEREOF.

The purchaser shall be solely responsible for compliance with all applicable Federal, State and Local OSHA and/or MSHA requirements. Although Air Systems International believes that its products, if operated and maintained as shipped from the factory and in accordance with our "operations manual", conform to OSHA and/or MSHA requirements, there are no implied or expressed warranties of such compliance extending beyond the limited warranty described herein. Product designs and specifications are subject to change without notice. Rev. 2, 12/98

Air leaks are not covered under warranty except when they result from a defective system component, i.e. an on/off valve or regulator or upon initial delivery due to poor workmanship. Air leaks due to poor delivery or damage will be covered under delivery claims. Minor air leaks are part of routine service and maintenance and are the responsibility of the customer just as are filters and oil changes.



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