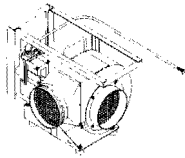


GENERAL SETUP & OPERATION, EXPLOSION-PROOF ELECTRIC BLOWER

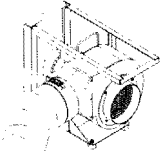


STEP 1)

Place blower in a clean fresh air environment. Set blower a minimum of 5 ft. from the manhole opening. *Note: Inspect blower for damaged or worn parts. Inspect all ducting and couplings for possible air leaks prior to blower operation.*

⚠ CAUTION:

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. **THE USE OF CONDUCTIVE DUCTING IS RECOMMENDED WHEN OPERATING IN POTENTIALLY EXPLOSIVE ENVIRONMENTS.**

ASSURE THAT THE BLOWER IS PROPERLY GROUNDED BEFORE OPERATING AND THAT THE GROUNDING WIRE, IN THE CONDUCTIVE DUCTING IS ATTACHED TO THE BLOWER AND SADDLE VENT®, IF USED.

⚠ CAUTION:

If explosive or volatile vapors are suspected or present, follow ANSI/API procedure 2015 and 2016 for proper grounding of the blower. All static electricity must be removed from the blower and attached ducting prior to energizing the blower. Conductive ducting should be tested semi-annually to assure resistance (ohms) does not exceed 300k. If sufficient resistance is not achieved, the duct should be removed from service.

ground wire attachment from conductive duct.

STEP 3)

Explosion-proof models should be fitted with an approved explosion-proof plug to meet Class I, Div. I, Groups C and D, Class II, Div. I, Groups E, F, G specifications. The plug should not be disconnected or connected in an explosive environment when the blower is energized.

STEP 4) Switch the explosion-proof “on/off” switch to the “on” position. The unit is now operational.

SHUTDOWN

- Insure that all workers are removed from the confined space site.
- Shut off blower and remove all ducting.

MAINTENANCE

- Keep blower motor dry and free from contaminants and dust.
- Check periodically to ensure moving parts are free from obstructions.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Excessive vibration	Air intake blocked	Turn blower off and clear debris from intake
	Possible internal damage	Turn blower off and inspect fan blades, shaft, and housing for debris, damage, and loose screws.
	Possible external damage	Turn fan off and inspect blower housing
Blower will not start	Circuit breaker trips	Wattage output of power source insufficient*
		Extension cord improperly sized
	Faulty wall outlet	Test voltage with meter

*Note: The use of generators are not recommended unless they are of sufficient output capacity.

Explosion-Proof Electric Blower

ITEM #	DESCRIPTION
1	ON/OFF SWITCH
2	HANDLE
3	EXPLOSION PROOF MOTOR
4	POWER CORD
5	HOUSING
*	BLOWER WHEEL
6	INTAKE FLANGE
7	RUBBER FOOT
8	EXHAUST FLANGE
9	STATIC GROUNDING LUG

* LOCATED INSIDE BLOWER HOUSING



SPECIFICATIONS

MOTOR TYPE	3/4 HP (.56 kw) Electric, 115 VAC/60Hz, factory wired with 25 ft. Cord, no plug, explosion-proof Class I, Div 1, Groups C and D, Class II, Div. 1, Groups E,F,G
FULL LOAD AMPERAGE	12.6 Amps
FLOW RATES	Free Air: 1570 cfm 25 ft. Duct with One 90 degree bend: 1047cfm
INLET/OUTLET SIZE	8" Diameter (203 mm)
WEIGHT	79 lbs.
SWITCH TYPE	Explosion-proof
NOISE LEVEL	76dbA @ 3 ft.

⚠ WARNING:

FOR HAZARDOUS ENVIRONMENTS, ALWAYS USE AIR SYSTEMS' MODEL SV- CONDUCTIVE SADDLE VENT® VENTILATION KIT WITH AN EXPLOSION-PROOF OR PNEUMATIC BLOWER.