

# USER AND SAFETY GUIDE

## RAMFAN TURBOVENTILATORS

### READ BEFORE OPERATING

For additional technical information, go to [www.euramcosafety.com](http://www.euramcosafety.com)

## Safety

### GENERAL

Blowers are **NOT** intended for operation in explosive atmospheres, unless specifically certified. See supplementary ATEX technical data if applicable.

Blowers should be operated and repaired by trained personnel only.

**DO NOT START** blower if there are any signs of damage, particularly to blade, guards, or housing.

Do NOT move the blower while it is running.

Use good lifting practices.

Immediately stop the unit upon hearing excessive mechanical noise or vibration.

Proper ear and eye protection must be worn while blower is running.

Keep fingers and hands clear of blade.

Keep area clear of rocks and debris.

Keep away from children.

#### WARNING/ CAUTION

There are no serviceable parts in the blowers. Do not disassemble blower for any reason. Unauthorized disassembly may result in serious injury.

### ELECTRIC BLOWERS

#### WARNING/ CAUTION

DO NOT use plug adapters that break AC power plug or isolate the ground connection between the motor and AC power source. Always use grounded plug and properly ground AC power receptacle.

Do NOT operate if there is any physical damage to cord or plug.

Fatal electrical shock may result if motor frame and adjacent metal are not grounded in compliance with electrical code.

To reduce the risk of fire or electrical shock, DO NOT use with any solid-state speed control device, except those supplied by Euramco Safety.

### GASOLINE ENGINE POWERED BLOWERS

Move fuel Shut-Off Valve to the Off position when not in operation.

Contamination of the oil will result if fuel is not shut off.

Always remove spark plug wire and secure away from spark plug prior to performing maintenance.

Carbon Monoxide and other combustion by-products are mixed with air discharge.

### WATER POWERED BLOWERS

Duct adapter to blower and duct mounting surfaces must be clean and free of corrosion.

Connect inlet hose to proper supply connection.

Observe the inlet labeling. Running the blower in reverse will result in Turbine damage.

Use grounding connector when operating in potentially explosive atmospheres.

## Operations

### BEFORE STARTING FOR THE FIRST TIME

**DO NOT START** blower if there are any signs of shipping damage, particularly to blade, guards, or housing. If any damaged is suspected, **STOP** and call your dealer immediately.

### GENERAL OPERATION

Start **ONLY** if blower is sitting in a stable and upright position.

While on level surface and running at full speed, the blower should not move around. If unit is moving, check rubber feet for damage and replace

if necessary. If this does not correct the problem then impeller balance should be checked. STOP, call your dealer.

STOP the blower if mechanical noise, vibration, or other abnormal condition occurs. Any noise other than blade, turbine-type pitch is not normal.

Do NOT move blower while in operation.

Use appropriate lifting practices.

When using the blower, note the directional airflow indicator on the external housing.

Do NOT stack blowers without securing handles of stacked units to each other using Velcro strap. (Except UB30)

When using duct, ensure that the duct cuff is securely tightened on the duct adapter.

Units with conductive housings may require statically conductive duct.

Allow blower to cool before storing.

Exercise care during deployment and storage to prevent physical damage.

### GASOLINE ENGINE POWERED BLOWERS

Before starting for the first time: Remove the spark plug wire from the spark plug. Slowly pull on the recoil starter; listen for contact between fan and shroud. Repeat. If rubbing is heard, STOP, call your dealer.

Adjust tilt mechanism so that engine is level.

Fill oil sump and gearbox (if applicable). (**see engine manual**)

Fill fuel tank with gasoline. (**see engine manual**)

Replace spark plug wire.

Adjust throttle to obtain desired airflow through structure.

Engines equipped with OIL-ALERT may not operate properly if not used on a level surface or tilted beyond blower tilt mechanism.

### AIR POWERED BLOWERS

Fill Automatic Air Lubricator. Motor must be lubricated to perform properly.

Moisture trap and filter must be installed in the Shop Air Line ahead of motor feed line.

Air units come complete with air control valve, air filter, automatic motor lubricator, and grounding clamp.

Read Air Motor Manual for instructions.

### ELECTRIC BLOWERS

Use extension cords of suitable size for amperage load (see nameplate data).

Failure to use proper size cord may result in fire or electrical shock, and may cause damage to unit.

Always ensure the switch is in the OFF position prior to connecting to power.

To protect the user, some units are equipped with thermal overload protection and automatic reset. Motor will restart without warning after protector trips. If motor thermal protection trips, disconnect unit and determine cause

### VARIABLE SPEED BLOWERS

Use IntelliSense Controller to achieve desired air velocity.

Unit can be turned on and off at any speed setting.

Unit can be powered by a GFCI outlet.

Speed Control is Spray-resistant Not waterproof.

### ATEX RATED BLOWERS

USE Ex-Rated receptacles for this equipment.

See supplementary ATEX instruction sheet for limitations of use.

### VENTURI BLOWERS

Operate on compressed air or saturated steam lines limited to 100 p.s.i. Due to high reaction force, be sure to firmly position and secure unit before turning on the air supply.

Keep area free of loose debris or solid objects.

Properly ground this product to prevent static discharge when used in areas containing combustible gas, vapor or dust.

Do not drag the aluminum base of this product across steel which can create a smear. A heavy smear, when struck with some objects, can cause an incendiary spark.

## **WATER POWERED BLOWERS**

Use only with properly tested and certified hose for inlet and discharge connections.

Connect the inlet and discharge water hoses to the fan. Run both hoses to provide as straight a path as possible.

DO NOT clamp or restrict discharge line from blower. Damage to water turbine may result.

### **MAXIMUM PRESSURE IS 250 PSI**

Visually check for leaks or excessive strain from the hose. Leakage should be controlled if the presence of water could be detrimental to the surrounding area.

Upon completion of operation, secure water supply and disconnect from blower. Disconnect discharge hose and drain by tilting blower from side to side. Install end caps on swivels before storage.

If saltwater or dirty water is used to power blower, flush internal water passages of unit with fresh water after each use.

If equipped with a strainer, periodically remove, inspect and clean. When reinstalling the Strainer on inlet swivel, DO NOT over tighten. Excessive force can result in damage to threads. Tighten only enough to prevent leakage.

## **Maintenance**

### **GENERAL**

Do NOT disassemble blower for maintenance reasons.

Clean fan periodically to remove accumulated dust or particles

Clean with commercially available biodegradable cleaning solutions.

Do NOT use solvents containing chlorinated hydrocarbons (i.e., MEK, Acetone)

Tighten all loose fasteners immediately. Check all at least once per year.

Do NOT over tighten fasteners.

Check rubber feet on frame for excessive wear or breakage.

Never replace special washer or impeller bolt with other than EURAMCO provided parts.

There are no user serviceable parts.

Contact factory for replacement part applicability.

### **ELECTRIC BLOWERS**

Disconnect power before cleaning.

Never immerse or direct spray at motor.

### **GASOLINE ENGINE POWERED BLOWERS**

Set up maintenance schedule for blower engine. **(see engine manual)**

Always remove spark plug wire and secure away from spark plug prior to performing maintenance.

Fan blade must be tightened to 31 N-m (275 in-lb)  $\pm$  5%. Shroud to engine face-plate bolts should be torqued to 28 N-m (250 in-lb). Use calibrated torque wrench. Bolt torque should be checked at least once per year.

### **WATER POWERED BLOWERS**

Periodically check Grounding connection on blower to ensure fastener is tight and free of corrosion.

## **Warranty**

RAMFAN blowers, excluding motors and wear items, are warranted for one year from date of original purchase, to be free of defects in material and workmanship. Gasoline and electric motors are warranted by their respective manufacturers. Wear items include feet, fasteners, handles, wheels, and paint, and are not covered under the warranty. Fan impellers and metallic shrouds, excluding plastic blower housings, are warranted to be free of defects in material and workmanship for five years.

Components exposed to salt water service are warranted for a period of one year from date of original purchase. Duct is not warranted due to its intended use.

