

**BLOWERS AND ELECTRIC MOTORS
Safety Precautions**

In the application of Ametek, Inc. motors and/or blowers as a component in your product, you must exercise the following minimum precautions:

THE FAILURE TO OBSERVE THE FOLLOWING SAFETY PRECAUTIONS COULD RESULT IN SERIOUS BODILY INJURY, INCLUDING DEATH IN EXTREME CASES. We recommend that *adequate instructions and warnings by the original equipment manufacturers (OEM)* include labels setting forth the precautions listed below to the end user.

The motors and/or blowers must be connected to a proper and effective ground or mounted in a manner that will guarantee electrical isolation and insulate the user and others from electric shock. End product design should not rely solely on the primary insulation of the motor.

Standard blowers and/or motors are not designed to handle volatile or flammable materials through the fan system unless specifically designed. Passing combustible gases or other flammable materials through the fan system could result in leakage which could cause a fire or explosion.

These products must not be used in an area contaminated by volatile or flammable materials since sparking is predictable in the normal operation of the motor and may ignite the volatile causing a dangerous explosion.

The Dynamic Fluid Solutions Division of Ametek, Inc. can supply specifically designed motors and blowers for use in handling combustible gases or for use in hazardous duty locations. These specially designed units should only be used in conjunction with combustible gases, which they were specifically designed to handle. The type of gases must be so noted on the product label and in the instructions.

The rotation of the motor shaft, or anything mounted on the shaft, is a potential source of injury and must be taken into account in the design of your end product. You must provide the necessary guarding or housing as required by the finished product and you must indicate to the user the direction of rotation. Do not remove guard as severe bodily injury may occur to fingers or appendages.

Products incorporating vacuum motors/blowers must be designed so as to prevent the vacuum or air pressure from

being concentrated in a manner that can expose the user to injury by coming into contact with any body area, such as eyes, ears, mouth, etc.

The motors and/or blowers must not be exposed to moisture or liquid or used outdoors, except in equipment which is specifically designed for outdoor use and meets the appropriate regulatory agency requirements for outdoor use. Moisture or liquid can damage the motor/blower and defeat the electrical insulation resulting in a severe electrical shock to the user.

Ametek motors/blowers must not be operated above the design voltage. Over voltage conditions can cause excessive speed of the motor and can result in severe electrical shock and/or other traumatic injury to the operator.

Precautions must be exercised to ensure motor leads are properly routed and connected in your equipment. Lead wires must be routed and retained to ensure that they do not become pinched or come in contact with rotating parts during assembly or subsequent operations. Connections must be designed so that proper electrical contact is established and the connections must be properly insulated.

Disassembly or repairs of Ametek products should not be attempted. If accomplished incorrectly, repairs can create an electrical shock and/or operational hazard. It is recommended that repairs be made only by Ametek and not by others.

In the event that the motor or blower ceases to operate, power must be disconnected before examination and/or removal from the system.

Contact Ametek, Inc. to discuss any questionable application before selecting a standard motor or blower.

In setting forth the above listed recommendations with regards to precautionary steps that must be considered, we in no way intend to imply that if these steps are taken a product will meet the applicable safety standards. We, at Ametek, are not sufficiently conversant with the specific safety hazards which may be associated with particular products. We can only advise precautions to be employed generally for the safe use of Ametek products as components. For testing specifically related to the safety

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of the product, we recommend that you contact the appropriate regulatory agency as indicated by the type of product being manufactured.

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