

GENERAL MAINTENANCE

MATERIAL

- Aluminum** Aluminum products should be cleaned at regular intervals with an aluminum cleaner formulated to remove oxidized metal.
- Steel** Clean steel products with a detergent and a steel wool pad. Spray weld points with rust-resistant touch-up paint, as needed.
- Fabric** When fabric products are contaminated with debris, gently dust all blades with a very soft brush to free fragments from the fabric.

COMPONENTS

Products with moving components should be checked and maintained every six months, or more frequently as conditions warrant.

- Bushings** Lubricate sintered bronze bushings and ball bearings. Nylon bushings should be lightly oiled.
- Seals** Clean jamb and blade seals with a mild detergent. Lubricate vinyl or stainless steel seals with light-grade oil. Polyurethane seals should be pressed securely against metal to assure a firm fit.
- Screws** Check and tighten all screws.
- Linkage** Apply oil or lubricant to all moving parts of the linkage. Actuate the unit to ensure all moving parts are free and can move easily.
- Caulk** Caulk may deteriorate or peel away over time. Check all caulk points on the product and reapply as needed.

ACCESSORIES

- Screens** Brush the screen lightly to remove foreign matter and then clean with a mild detergent. Use extra care on insect screens to avoid tears in the mesh.
- Actuators** Clean dirt and dust off of the actuator. On manual, electric, and pneumatic actuators, check and tighten any loose bolts or screws.
- Filters** Filtered units will require more frequent maintenance. Check disposable-type filters for clogging and replace as needed. For washable filters, remove the filter and flush it with water to clear the filter of debris.

LOUVERS**LOUVER STORAGE INSTRUCTIONS**

Louvers are crated at our manufacturing plant in an open-crate system, unless otherwise specified by the customer. All crates should be covered with a tarp or waterproof cover upon arrival at the job site. MCDLG recommends leaving crates closed at the job site until the time of installation.

LOUVER INSTALLATION

Reference the appropriate installation drawings for louver mounting details and instructions. Lift the louver into place and, if required, use a spreader bar. Take care to ensure that louver frame is not racked or twisted. Louvers must be installed per the louver mounting details with respect to blade orientation and air flow. Louvers must be installed square and plumb to the opening. Install flashing (if required) and seal around perimeter of louver as needed.

LOUVER MAINTENANCE INSTRUCTIONS

Remove any foreign matter that may have accumulated on blades, linkage, screens, or other surfaces. Foreign matter can interfere with moving parts and can cause unnecessary air flow resistance.

LOUVER FINISH CLEANING

There are several methods to clean a louver and remove deposits from its blades. For any method, two precautions must be taken: 1) do not use wire brushes, abrasives, or similar cleaning tools. These may abrade the coating's surface. 2) use one of the following cleaning agents on finished surfaces: Aromatic and Chlorinated solvents, Keytones, Esters, lacquer thinner, or paint remove. Avoid using hard cleaning agents.

HOT OR COLD DETERGENT SOLUTIONS

To avoid damaging the finish, use a 5% solution of commonly-used commercial and industrial detergents in water. Apply this solution with a cloth or a soft bristle brush. Once applied, rinse the solution off with water.

SOLVENTS

The following are solvents that may be used to remove non-water soluble deposits (tar, grease, oil, paint, graffiti, etc) from the finished surface:

Alcohols

Denatured Alcohol (ethanol)
Isopropyl Alcohol (rubbing alcohol)
Methanol (wood alcohol)

Petroleum Solvents and Turpentine

VM&P Maptha
Mineral Spirits
Kerosene
Turpentine

WARRANTY

Misusing or abusing the cleaning agents listed above will void any warranty on the surface affected.

FIRE/SMOKE RATED DAMPERS

Our instructions for fire, smoke, and combination fire-smoke dampers state the following: “Dampers shall be maintained in intervals as stated in NFPA 90A and 92A unless local codes require more frequent inspections.”

Per the UL Damper Marking Guide, suggested maintenance of the dampers includes the following guidelines:

- 1) Removal of debris buildup from the damper and the surrounding area.
- 2) Manual cycling of all dampers released by fusible links.
- 3) Cycling of dampers and actuator assemblies.

Maintenance instructions for actuators are available from the appropriate actuator manufacturer.