Throughout this manual, there are a number of HAZARD WARNINGS that must be read and adhered to in order to prevent possible personal injury and/or damage to equipment. The signal word "CAUTION" is used to indicate the severity of a hazard and is preceded by the safety alert symbol.

**CAUTION**

Used when minor or moderate injury or product / equipment damage MAY result from misuse or failure to follow specific instructions.

It is the responsibility of all personnel involved in installation, operation and maintenance to fully understand the ▲ Caution procedures by which hazards are to be avoided.

### Typical Panel Fan Installations

#### EXHAUST INSTALLATIONS

**STANDARD FLOW PANELS**

- **Mounting Blocks or Plates**
- **Angle Iron Frame**
- **Weather Hood**
- **Bird Screen**
- **Flat Guard**

**Installation Requires Shutter Size to Be Same as Panel Square.**

- **Reverse Flow Panel**
- **Reverse Mount Panel**

**REVERSIBLE PANELS**

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INSTALLATIONS USING MOUNTING ADAPTORS

STANDARD MOUNT

AUTOMATIC SHUTTER

AIRFLOW

STANDARD MOUNT ALTERNATE MOUNT

AUTOMATIC SHUTTER

AIRFLOW

NOTE: ALL INSTALLATIONS SHOWN USE SAME SIZE SHUTTERS & HOODS AS FAN SIZE.

RECOMMENDED MOUNT

(REVERSIBLE)

(REVERSE FLOW)

AIRFLOW

CENTER-PIVOT MOTOR-OPERATED SHUTTERS

RECOMMENDED MOUNT (REVERSE CONSTRUCTION)

ALTERNATE SOLUTIONS

CENTER-PIVOTED MOTOR-OPERATED SHUTTER

FLAT GUARD

AIRFLOW

OUTSIDE SUPPLY ARRANGEMENT

AUTOMATIC SHUTTER

AIRFLOW

EXHAUST ARRANGEMENT

CENTER-PIVOTED MOTOR-OPERATED SHUTTER

AIRFLOW

EXHAUST W/MTG. ADAPTOR

SUPPLY W/WALL HOUSING

Aerovent Installation and Maintenance Manual IM-110
Typical Ring Fan Installations

STANDARD FLOW

**FAN MOUNTED FLUSH TO WALL**

**FAN MOUNTED TO DUCTWORK**

REVERSE CONSTRUCTION

**REVERSE FLOW OR REVERSIBLE**
Rear Wire Guard (WWII) (Motorside)  
For Panel Fans

**PARTS**
(1) Rear Panel  
(4) Side Panels  
(16) or (24) Hex Head Locknuts  
(16) or (24) $\frac{5}{16}" \times 1"$ Hex Head Capscrews  
(32) or (48) $\frac{3}{8}"$ I.D. Flat Washers

**ASSEMBLY**
1. Bolt three sides of guard to rear panel using $\frac{5}{16}"$ capscrews, nuts and flat washers.  
2. Bolt partially assembled guard to panel fan using capscrews, nuts and flat washers.  
3. Arrange for electrical hook-up to fan motor. Two methods may be used:  
   a. Drill out hole in fan panel and route wire or conduit through opening.  
   b. Bend or cut side panel wire guard and route wire or conduit through opening.  
4. Assemble fourth side to guard and panel, sliding along conduit or wiring if routing through guard.  
5. Securely tighten all locknuts.

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**Cleaning Propellers**
The propeller in an axial flow fan must be kept reasonably clean if it is to perform properly. Fans handling fresh air for ventilating purposes will seldom need cleaning. Fans exhausting process air should be cleaned as required. Dirt or chemical deposits will usually build up on a propeller evenly and they present no problem to performance or operation until they become thick enough to break away in crust-like pieces. When this happens, the propeller may be thrown out of balance and the resulting vibration could be serious. Accumulations of deposits should be removed by solvent cleaning or scraping. If the propeller has been coated, be careful not to cut through the protective covering.

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**Care and Maintenance**
Regular and systematic inspection of all fan parts is a necessity for good fan maintenance. A general installation and maintenance brochure (IM-100) has been supplied with this shipment. It includes fan and motor bearing lubrication, care and replacement of V-belt drives and taperlock bushing instructions.

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**CAUTION**
Recommended distance between fan blade and shutter is approximately equal to $\frac{1}{8}$ of the fan’s diameter.