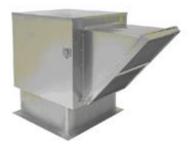
Installation, Operation, and Maintenance Manual







Standard Untempered Supply Fan

Modular Untempered Supply Fan



INLINE Filtered Supply Fan

RECEIVING AND INSPECTION

Upon receiving unit, check for any interior and exterior damage, and if found, report it immediately to the carrier. Also check that all accessory items are accounted for and are damage free. Turn the blower wheel by hand to verify free rotation and check the damper (if supplied) for free operation.

WARNING!!

Installation of this ventilator should only be performed by a qualified professional who has read and understands these instructions and is familiar with proper safety precautions. Improper installation poses serious risk of injury due to electric shock, contact with rotating equipment, and other potential hazards. Read this manual thoroughly before installing or servicing this equipment. ALWAYS disconnect power prior to working on fan.

Save these instructions. This document is the property of the owner of this equipment and is required for future maintenance. Leave this document with the owner when installation or service is complete.

TABLE OF CONTENTS

| INSTALLATION. Mechanical. Site Preparation Intake Assembly Recommended Supply Ductwork Sizes Curb and Ductwork. Roof Mount Installation Wall Mount Installation Indoor (Inline) Installation Installation with Exhaust Fan. Electrical. Copper Wire Ampacity PSC (Permanent Split Capacitor) Motor Speed Control. ECM (Electronically Controlled Motor) Speed Control. Motorized Intake Damper Fan to Building Wiring Connection Variable Frequency Drive (VFD) Installation Instructions 1 VFD Programming ACTECH SMV VFD CROSS-REFERENCE TABLE 1. OPERATION Start Up Special Tools Required 1. Special Tools Required 1. Start Up Procedure Pulley Adjustment Pulley Setscrew Torque 1. Pulley Setscrew Torque 1. Pulley Combination Chart Re-Circulating Control (Photohelic) 1. Two Position Control 1. Start Up Rossition Control 1. Re-Circulating Control (Photohelic) 1. A306 Outdoor Sensor 1. Building Signal Damper Control 1. Troubleshooting 1. Troubleshooting 1. Troubleshooting Chart 1. Mannar Past startup 2. 2 weeks after startup 2. 2 Yearly 2 Maintenance 2. 3 Job Information 2. 3 Haintenance Documentation 2. 4 Factory Service Department 2. 5 Factory Service Department 2. | WARRANTY | 4 |
|--|--|----|
| Mechanical. Site Preparation. Intake Assembly. Recommended Supply Ductwork Sizes Curb and Ductwork. Roof Mount Installation. Wall Mount Installation. Wall Mount Installation. Indoor (Inline) Installation. Installation with Exhaust Fan. Electrical. Copper Wire Ampacity. PSC (Permanent Split Capacitor) Motor Speed Control. ECM (Electronically Controlled Motor) Speed Control. Motorized Intake Damper. Fan to Building Wiring Connection. Variable Frequency Drive (VFD) Installation Instructions. 1 VFD Programming. ACTECH SMV VFD CROSS-REFERENCE TABLE. 1 OPERATION. Start Up. Start Up. Special Tools Required. Start Up Procedure. 1 Pulley Adjustment. Pulley Setscrew Torque. 1 Pulley Alignment. 1 Proper Belt Tension. 1 Proper Belt Tension. 1 Pulley Combination Chart. 1 Re-Circulating Control Options. 1 Manual Positioning Control (Potentiometer). 1 Two Position Control. 1 Static Pressure Control (Photohelic). 1 A306 Outdoor Sensor. 1 Building Signal Damper Control. 1 Troubleshooting Chart. MAINITENANCE. 2 General Maintenance. 2 2 Weeks after startup. 2 2 Every 3 months. 2 2 Filter Quantity Chart. 2 2 Far Unit Information. 2 2 Far Unit Information. 2 2 Maintenance Record. | INSTALLATION | 5 |
| Site Preparation. Intake Assembly. Recommended Supply Ductwork Sizes. Curb and Ductwork. Roof Mount Installation. Wall Mount Installation. Indoor (Inline) Installation. Indoor (Inline) Installation. Installation with Exhaust Fan. Electrical. Copper Wire Ampacity. PSC (Permanent Split Capacitor) Motor Speed Control. ECM (Electronically Controlled Motor) Speed Control. Motorized Intake Damper. Fan to Building Wiring Connection. 10 Variable Frequency Drive (VFD) Installation Instructions. 11 VFD Programming. 12 ACTECH SMV VFD CROSS-REFERENCE TABLE. 13 ACTECH SMV VFD CROSS-REFERENCE TABLE. 14 Start Up. 15 Special Tools Required. 16 Start Up Procedure. 17 Pulley Adjustment. 18 Pulley Adjustment. 19 Pulley Adjustment. 19 Pulley Alignment. 19 Proper Belt Tension. 11 Pulley Combination Chart. 11 Re-Circulating Control Options. 12 Re-Circulating Control Options. 13 Adaia Positioning Control (Potentiometer). 14 Static Up Pressure Control. 15 Static Up Pressure Control (Potentiometer). 16 Static Pressure Control (Potentiometer). 17 Tov Position Control. 18 Static Pressure Control (Potentiometer). 19 Static Pressure Control (Potentiometer). 10 A306 Outdoor Sensor. 10 Building Signal Damper Control. 11 Troubleshooting. 12 Troubleshooting Chart. 14 ANAINTENANCE. 22 Weeks after startup. 23 Every 3 months. 24 Every 3 months. 25 Every 3 months. 26 Every 3 months. 27 Every 4 months. 28 Start-Up and Maintenance Documentation. 29 Job Information. 20 Maintenance Record. 20 Maintenance Record. | | |
| Intake Assembly. Recommended Supply Ductwork Sizes. Curb and Ductwork. Roof Mount Installation. Wall Mount Installation. Indoor (Inline) Installation. Installation with Exhaust Fan. Electrical. Copper Wire Ampacity. PSC (Permanent Split Capacitor) Motor Speed Control. ECM (Electronically Controlled Motor) Speed Control. Motorized Intake Damper. Fan to Building Wiring Connection. 10 Variable Frequency Drive (VFD) Installation Instructions. 11 VFD Programming. 12 ACTECH SMV VFD CROSS-REFERENCE TABLE. 13 ACTECH SMV VFD CROSS-REFERENCE TABLE. 14 CATECH SMV VFD CROSS-REFERENCE TABLE. 15 Special Tools Required. 16 Start Up. Start Up Procedure. 17 Pulley Adjustment. 18 Pulley Adjustment. 19 Pulley Adjustment. 19 Proper Belt Tension. 19 Pulley Combination Chart. 11 Re-Circulating Control Options. 11 Re-Circulating Control Options. 12 Static Pressure Control (Potentiometer). 11 Two Position Control. 12 Static Pressure Control (Potentiometer). 11 Troubleshooting 11 Troubleshooting Chart. 12 AGNAIN AND ASSEMBLY STATE AND ASSEMBLY STAT | Site Preparation | 5 |
| Recommended Supply Ductwork Sizes Curb and Ductwork Roof Mount Installation Wall Mount Installation Indoor (Inline) Installation Installation with Exhaust Fan Electrical Copper Wire Ampacity PSC (Permanent Split Capacitor) Motor Speed Control ECM (Electronically Controlled Motor) Speed Control Motorized Intake Damper Fan to Building Wiring Connection 11 Variable Frequency Drive (VFD) Installation Instructions 12 VFD Programming ACTECH SMV VFD CROSS-REFERENCE TABLE 13 CPERATION Start Up Special Tools Required 14 Start Up Procedure 15 Start Up Procedure 16 Pulley Adjustment 17 Pulley Adjustment 18 Pulley Alignment 19 Pulley Alignment 19 Pulley Combination Chart 19 Re-Circulating Control Options 11 A306 Outdoor Sensor 11 Troubleshooting 12 Capacity 13 Start Up 14 Start Up Prossure Control (Ptotohelic) 15 Statt Up Proper Belt Tension 16 Pulley Combination Chart 17 Pulley Combination Chart 18 Pulley Combination Chart 19 Start Up Re-Circulating Control Options 10 Statt Up Proper Belt Tension 11 Pulley Combination Chart 12 Statt Up Resource Control (Ptotohelic) 13 Statt Up Resource Control (Ptotohelic) 14 A306 Outdoor Sensor 15 Statt Up Resource Control (Ptotohelic) 16 Statt Up Resource Control (Photohelic) 17 Troubleshooting 18 Start Up Resource 29 Weeks after startup 20 Start-Up and Maintenance 21 Start-Up and Maintenance Documentation 22 Start-Up and Maintenance Documentation 25 Start-Up and Maintenance Documentation 26 Start-Up and Maintenance Documentation 27 Start-Up and Maintenance Documentation 28 Start-Up and Maintenance Documentation 29 Maintenance Record 20 Maintenance Record 20 Maintenance Record | | |
| Curb and Ductwork Roof Mount Installation Indoor (Inline) Installation Installation with Exhaust Fan Electrical Copper Wire Ampacity PSC (Permanent Split Capacitor) Motor Speed Control ECM (Electronically Controlled Motor) Speed Control Motorized Intake Damper Fan to Building Wiring Connection Variable Frequency Drive (VFD) Installation Instructions VFD Programming ACTECH SMV VFD CROSS-REFERENCE TABLE OPERATION Start Up. Special Tools Required Start Up Procedure Pulley Adjustment Pulley Adjustment Pulley Alignment Proper Belt Tension Proper Belt Tension Proper Belt Tension Proper Belt Tension Manual Position Control (Potentiometer) <t< td=""><td></td><td></td></t<> | | |
| Roof Mount Installation Wall Mount Installation Indoor (Inline) Installation Installation with Exhaust Fan Electrical Copper Wire Ampacity PSC (Permanent Split Capacitor) Motor Speed Control ECM (Electronically Controlled Motor) Speed Control Motorized Intake Damper Fan to Building Wiring Connection 11 Variable Frequency Drive (VFD) Installation Instructions 12 VFD Programming 13 ACTECH SMV VFD CROSS-REFERENCE TABLE 14 Special Tools Required 15 Special Tools Required 16 Start Up 17 Special Tools Required 18 Start Up Procedure 19 Pulley Adjustment 19 Pulley Adjustment 10 Proper Belt Tension 11 Pruley Combination Chart 11 Re-Circulating Control Options 11 Re-Circulating Control (Potentiometer) 12 Two Position Control 13 Static Pressure Control (Photohelic) 14 A306 Outdoor Sensor 15 Building Signal Damper Control 16 Troubleshooting 17 Troubleshooting 18 Troubleshooting 19 Carety 19 Start-Up and Maintenance 20 Seveks after startup 21 Start-Up and Maintenance Documentation 22 Fail Uniformation 22 Fail Uniformation 23 Maintenance Record 24 Maintenance Record 25 Maintenance Record 26 Maintenance Record 27 Maintenance Record 28 Maintenance Record 29 Maintenance Record 20 Maintenance Record | | |
| Indoor (Inline) Installation Installation with Exhaust Fan. Electrical Copper Wire Ampacity PSC (Permanent Split Capacitor) Motor Speed Control ECM (Electronically Controlled Motor) Speed Control Motorized Intake Damper Fan to Building Wiring Connection 11 Variable Frequency Drive (VFD) Installation Instructions 12 VFD Programming | | |
| Installation with Exhaust Fan. | Wall Mount Installation | 6 |
| Installation with Exhaust Fan. | Indoor (Inline) Installation | 7 |
| Electrical | | |
| Copper Wire Ampacity PSC (Permanent Split Capacitor) Motor Speed Control ECM (Electronically Controlled Motor) Speed Control | | |
| PSC (Permanent Split Capacitor) Motor Speed Control ECM (Electronically Controlled Motor) Speed Control Motorized Intake Damper Fan to Building Wiring Connection I Variable Frequency Drive (VFD) Installation Instructions 1 VFD Programming ACTECH SMV VFD CROSS-REFERENCE TABLE OPERATION Start Up Special Tools Required Start Up Procedure Pulley Adjustment Pulley Adjustment Pulley Alignment Proper Belt Tension Pulley Combination Chart Re-Circulating Control Options Manual Positioning Control (Potentiometer) Two Position Control Static Pressure Control (Photohelic) A306 Outdoor Sensor Building Signal Damper Control Troubleshooting Chart MAINTENANCE General Maintenance 2 weeks after star | | |
| ECM (Electronically Controlled Motor) Speed Control | | |
| Motorized Intake Damper 1 Fan to Building Wiring Connection 11 Variable Frequency Drive (VFD) Installation Instructions 1 VFD Programming 1 ACTECH SMV VFD CROSS-REFERENCE TABLE 1 OPERATION 1 Start Up 1 Special Tools Required 1 Start Up Procedure 1 Pulley Adjustment 1 Pulley Alignment 1 Pulley Alignment 1 Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 <td></td> <td></td> | | |
| Fan to Building Wiring Connection | | |
| Variable Frequency Drive (VFD) Installation Instructions 1 VFD Programming 1 ACTECH SMV VFD CROSS-REFERENCE TABLE 1 OPERATION 1 Start Up 1 Special Tools Required 1 Start Up Procedure 1 Pulley Adjustment 1 Pulley Alignment 1 Pulley Alignment 1 Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Yearly | | |
| VFD Programming. 1. ACTECH SMV VFD CROSS-REFERENCE TABLE. 7. OPERATION. 1. Start Up. 1. Special Tools Required 1. Start Up Procedure. 1. Pulley Adjustment. 1. Pulley Setscrew Torque 1. Pulley Alignment. 1. Proper Belt Tension 1. Pulley Combination Chart. 1. Re-Circulating Control Options 1. Manual Positioning Control (Potentiometer) 1. Two Position Control 1. Static Pressure Control (Photohelic) 1. A306 Outdoor Sensor 1. Building Signal Damper Control 1. Troubleshooting 1. Troubleshooting 1. Troubleshooting Chart 1. MAINTENANCE 2. General Maintenance 2. 2 weeks after startup 2. Every 3 months 2. Filter Quantity Chart 2. Yearly 2. Start-Up and Maintenance Documentation 2. Yearly | Variable Frequency Drive (VFD) Installation Instructions | 11 |
| ACTECH SMV VFD CROSS-REFERENCE TABLE | VFD Programming | 12 |
| OPERATION 1 Start Up 1 Special Tools Required 1 Start Up Procedure 1 Pulley Adjustment 1 Pulley Setscrew Torque 1 Pulley Alignment 1 Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | ACTECH SMV VFD CROSS-REFERENCE TABLE | 13 |
| Special Tools Required 1. | | |
| Start Up Procedure 1 Pulley Adjustment 1 Pulley Setscrew Torque 1 Pulley Alignment 1 Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | Start Up | 14 |
| Start Up Procedure 1 Pulley Adjustment 1 Pulley Setscrew Torque 1 Pulley Alignment 1 Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | | |
| Pulley Adjustment 1 Pulley Setscrew Torque 1 Pulley Alignment 1 Proper Belt Tension 1 Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | | |
| Pulley Setscrew Torque 1 Pulley Alignment 1 Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | | |
| Proper Belt Tension 1 Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | | |
| Pulley Combination Chart 1 Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | Pulley Alignment | 15 |
| Re-Circulating Control Options 1 Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 1 Building Signal Damper Control 1 Troubleshooting 1 Troubleshooting Chart 1 MAINTENANCE 2 General Maintenance 2 2 weeks after startup 2 Every 3 months 2 Filter Quantity Chart 2 Yearly 2 Start-Up and Maintenance Documentation 2 Job Information 2 Fan Unit Information 2 Maintenance Record 2 | Proper Belt Tension | 15 |
| Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 16 Building Signal Damper Control 18 Troubleshooting 19 Troubleshooting Chart 19 MAINTENANCE 20 General Maintenance 20 2 weeks after startup 20 Every 3 months 20 Filter Quantity Chart 20 Yearly 2 Start-Up and Maintenance Documentation 20 Job Information 20 Fan Unit Information 20 Maintenance Record 20 | | |
| Manual Positioning Control (Potentiometer) 1 Two Position Control 1 Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 16 Building Signal Damper Control 18 Troubleshooting 19 Troubleshooting Chart 19 MAINTENANCE 20 General Maintenance 20 2 weeks after startup 20 Every 3 months 20 Filter Quantity Chart 20 Yearly 2 Start-Up and Maintenance Documentation 20 Job Information 20 Fan Unit Information 20 Maintenance Record 20 | Re-Circulating Control Options | 17 |
| Static Pressure Control (Photohelic) 1 A306 Outdoor Sensor 18 Building Signal Damper Control 11 Troubleshooting 11 MINTENANCE 21 General Maintenance 22 2 weeks after startup 21 Every 3 months 21 Filter Quantity Chart 22 Yearly 22 Start-Up and Maintenance Documentation 22 Job Information 22 Fan Unit Information 22 Maintenance Record 22 | | |
| A306 Outdoor Sensor 18 Building Signal Damper Control 15 Troubleshooting 19 Troubleshooting Chart 19 MAINTENANCE 20 General Maintenance 20 2 weeks after startup 20 Every 3 months 20 Filter Quantity Chart 21 Yearly 2 Start-Up and Maintenance Documentation 22 Job Information 22 Fan Unit Information 22 Maintenance Record 22 | Two Position Control | 17 |
| Building Signal Damper Control 18 Troubleshooting 19 Troubleshooting Chart 19 MAINTENANCE 20 General Maintenance 20 2 weeks after startup 20 Every 3 months 20 Filter Quantity Chart 20 Yearly 2 Start-Up and Maintenance Documentation 20 Job Information 20 Fan Unit Information 20 Maintenance Record 20 | Static Pressure Control (Photohelic) | 17 |
| Troubleshooting 19 Troubleshooting Chart 19 MAINTENANCE 20 General Maintenance 21 2 weeks after startup 20 Every 3 months 20 Filter Quantity Chart 22 Yearly 22 Start-Up and Maintenance Documentation 22 Job Information 22 Fan Unit Information 22 Maintenance Record 22 | A306 Outdoor Sensor | 18 |
| Troubleshooting Chart 19 MAINTENANCE 20 General Maintenance 21 2 weeks after startup 21 Every 3 months 22 Filter Quantity Chart 22 Yearly 22 Start-Up and Maintenance Documentation 22 Job Information 22 Fan Unit Information 22 Maintenance Record 23 | Building Signal Damper Control | 18 |
| MAINTENANCE 20 General Maintenance 20 2 weeks after startup 20 Every 3 months 20 Filter Quantity Chart 20 Yearly 20 Start-Up and Maintenance Documentation 20 Job Information 20 Fan Unit Information 20 Maintenance Record 20 | Troubleshooting | 19 |
| General Maintenance 20 2 weeks after startup 20 Every 3 months 20 Filter Quantity Chart 22 Yearly 2 Start-Up and Maintenance Documentation 20 Job Information 20 Fan Unit Information 20 Maintenance Record 20 | Troubleshooting Chart | 19 |
| 2 weeks after startup 20 Every 3 months 21 Filter Quantity Chart 22 Yearly 22 Start-Up and Maintenance Documentation 22 Job Information 22 Fan Unit Information 22 Maintenance Record 23 | MAINTENANCE | 20 |
| Every 3 months | General Maintenance | 20 |
| Filter Quantity Chart | 2 weeks after startup | 20 |
| Yearly | Every 3 months | 20 |
| Start-Up and Maintenance Documentation | Filter Quantity Chart | 21 |
| Start-Up and Maintenance Documentation | Yearly | 21 |
| Job Information2Fan Unit Information2Maintenance Record2 | | |
| Maintenance Record22 | Job Information | 22 |
| | Fan Unit Information | 22 |
| Factory Service Department22 | | |
| | Factory Service Department | 22 |

WARRANTY

This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 12 months from date of shipment. This warranty shall not apply if:

- 1. The equipment is not installed by a qualified installer per the MANUFACTURER'S installation instructions shipped with the product,
- 2. The equipment is not installed in accordance with federal, state and local codes and regulations,
- 3. The equipment is misused or neglected,
- 4. The equipment is not operated within its published capacity,
- 5. The invoice is not paid within the terms of the sales agreement.

The MANUFACTURER shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 12-month warranty period, upon examination by the MANUFACTURER, such part will be repaired or replaced by MANUFACTURER at no charge. The BUYER shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without MANUFACTURER'S prior authorization and all returned equipment shall be shipped by the BUYER, freight prepaid to a destination determined by the MANUFACTURER.

INSTALLATION

It is imperative that this unit is installed and operated with the designed airflow and electrical supply in accordance with this manual. If there are any questions about any items, please call the service department at **1-866-784-6900** for warranty and technical support issues.

Mechanical

WARNING: DO NOT RAISE VENTILATOR BY THE INTAKE HOOD, BLOWER OR MOTOR SHAFT, OR BEARINGS – USE LIFTING LUGS PROVIDED OR A SLING

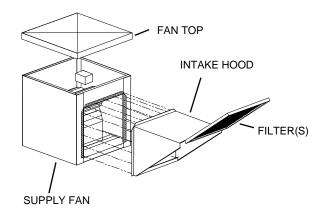
Site Preparation

- 1. Provide clearance around installation site to safely rig and lift equipment into its final position. Supports must adequately support equipment. Refer to manufacturer's estimated weights.
- 2. Consider general service and installation space when locating unit.
- 3. Locate unit close to the space it will serve to reduce long, twisted duct runs.
- 4. Do not allow air intake to face prevailing winds. Support unit above ground or at roof level high enough to prevent precipitation from being drawn into its inlet. The inlet must also be located at least 10 feet away from any exhaust vents. The fan inlet shall be located in accordance with the applicable building code provisions for ventilation air.

Intake Assembly

Filters and intake hoods for standard supply fans are shipped inside the supply fan housing for protection during shipping. Modular intakes are shipped on a separate skid. Upon unit arrival, follow the following procedure to assemble the intake to the fan:

- 1. Remove the fan top (standard supply fans only).
- 2. Remove the intake hood and filters from the fan housing.
- 3. Re-install the fan top (standard supply fans only).
- 4. Apply silicone or weather-proof gasket on the back side of the flanges of the intake hood.
- Screw the flanges of the intake hood to the unit at the hatched areas shown with the supplied sheet metal screws. Place caulk on the outside of the screws to prevent water leaks. Slide the filters down the filter track as shown.



Curb and Ductwork

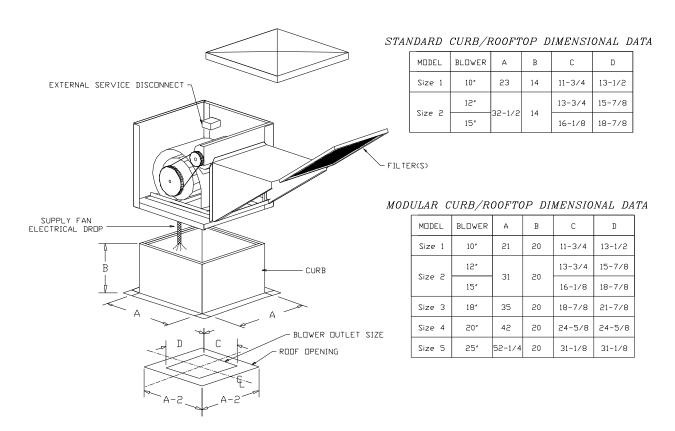
This fan was specified for a specific CFM and static pressure. The ductwork attached to this unit will significantly affect the airflow performance. Flexible ductwork and square elbows should not be used. Also, transitions and turns in ductwork near the fan outlet will cause system effect and will drastically increase the static pressure and reduce airflow. The chart to the right shows the minimum fan outlet duct sizes and straight lengths recommended for optimal fan performance.

Recommended Supply Ductwork Sizes

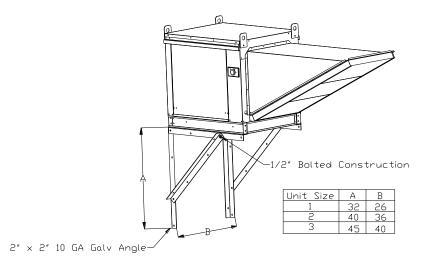
| Blower Size | Duct Size | Straight Duct Length |
|-------------|-----------|----------------------|
| 10 | 14 x 14 | 48 in. |
| 12 | 16 x 16 | 54 in. |
| 15 | 20 x 20 | 72 in. |
| 18 | 24 x 24 | 86 in. |
| 20 | 26 x 26 | 108 in. |
| 25 | 32 x 32 | 168 in. |

Follow SMACNA guides and recommendations for the remaining duct run. Fans designed for rooftop installation should be installed on a prefabricated or factory built roof curb. Follow curb manufacturer's instructions for proper curb installation. The unit should be installed on a curb and/or rail elevated not less than 14" above any surface. Be sure duct connection and fan outlet are properly aligned and sealed. Secure fan to curb through vertical portion of the ventilator base assembly flange using a minimum of eight (8) lug screws, anchor bolts, or other suitable fasteners (not furnished). Shims may be required depending upon curb installation and roofing material. Check all fasteners for tightness. The diagrams below show different mechanical installation configurations.

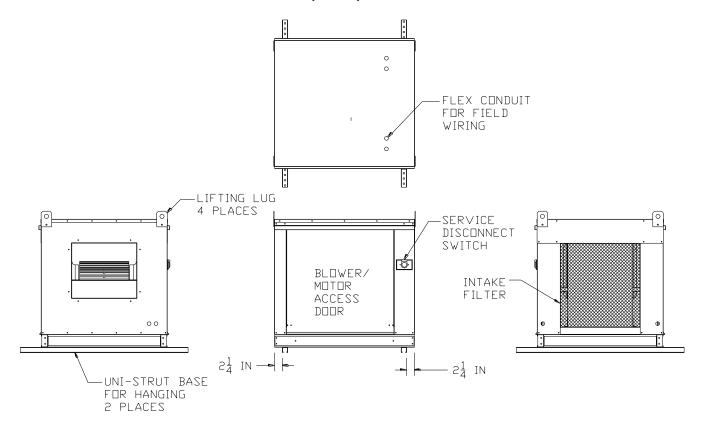
Roof Mount Installation



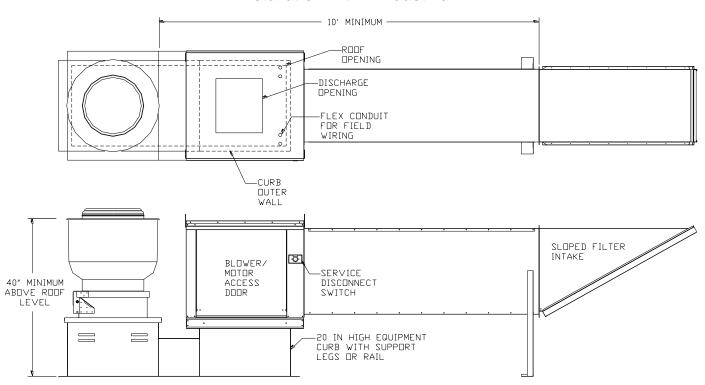
Wall Mount Installation



Indoor (Inline) Installation



Installation with Exhaust Fan



Electrical

Before connecting power to the fan, read and understand this entire section of this document. As-built wiring diagrams are furnished with each fan by the factory, and are attached either to the door of the unit or the blower.

Electrical wiring and connections should be done in accordance with local ordnances and the National Electric Code, ANSI/NFPA70. Be sure the voltage and phase of the power supply and the wire amperage capacity is in accordance with the motor nameplate. For additional safety information refer to AMCA publication 410-96, Recommended Safety Practices for Users and Installers of Industrial and Commercial Fans.

- 1. Always **disconnect power** before working on or near a fan. Lock and tag the disconnect switch or breaker to prevent accidental power up.
- An electrical drop containing the line voltage power wiring is shipped with every fan. The electrical drop should be brought through one of the conduit openings located in the base of the unit, run through the curb, and connected to a junction box inside the building.
- 3. A dedicated branch circuit should supply the motor circuit with short circuit protection according to the National Electric Code. This dedicated branch should be run to the junction box mentioned above and connected as shown in a following illustration labeled "Fan to Building Wiring Connection".
- Make certain that the power source is compatible with the requirements of your equipment. The fan nameplate identifies
- equipment. The fan nameplate identifies the **proper phase and voltage** of the motor.

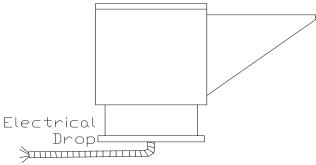
 5. Before connecting fan to building power source, verify power line wiring is de-energized.
- 6. Secure the power cable to prevent contact with sharp objects.
- 7. Do not kink power cable and never allow the cable to come in contact with oil, grease, hot surfaces or chemicals.
- 8. Before powering up fan check fan wheel for free rotation and make sure that the interior of the fan is free of loose debris or shipping materials.
- 9. If any of the original wire supplied with the fan must be replaced, it must be replaced with type THHN wire or equivalent.

WARNING!!

Disconnect power before installing or servicing fan. High voltage electrical input is needed for this equipment. This work should be performed by a qualified electrician.

Copper Wire Ampacity

| Wire Size AWG | Maximum Amps |
|---------------|--------------|
| 14 | 15 |
| 12 | 20 |
| 10 | 30 |
| 8 | 50 |
| 6 | 65 |
| 4 | 85 |



PSC (Permanent Split Capacitor) Motor Speed Control

Some single phase direct drive fans contain speed controls that regulate the amount of voltage going to the motor. Specific PSC motors must be used in conjunction with speed controls. The speed control has a knob with an off position, and high to low range. At high speed, the speed control allows all of the line voltage to pass right to the motor.

A minimum speed adjustment is provided to allow independent control of the minimum speed setting. Minimum speed adjustment ensures motor runs with sufficient torque to prevent stalling. To adjust this:

- 1) Motor must be in actual operating conditions to achieve proper speed adjustment. Motor will not slow down unless proper load is applied.
- 2) Turn main control knob to lowest speed position.
- 3) Locate and adjust minimum speed setting and adjust with small screw driver. This can be found under the speed control faceplate. (rotate clockwise to decrease minimum speed; counterclockwise to increase minimum speed).
- 4) Motor will now operate from this preset minimum speed to full speed.

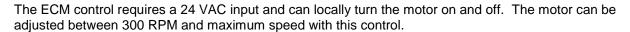
The lowest minimum voltage that may be applied to these motors is 65VAC. Running lower voltages to the motor can cause premature failure and overheating problems.

ECM (Electronically Controlled Motor) Speed Control

ECM motors and control allows accurate manual adjustment of fan speed. The benefit of ECM motors is exceptional efficiency, performance, and motor life.

The control used with ECM motors features a 4 digit LED numerical display. The blue knob on the control allows the user to set the flow index with a screwdriver. Twenty seconds later, the display shows the motor RPM. Then, the display periodically alternates between the flow index and

motor RPM. The flow index has a range of 0 to 100% and is typically linear with motor RPM.



NOTE: To adjust the speed of 3 phase direct drive motors, a variable frequency drive is required.

Motorized Intake Damper

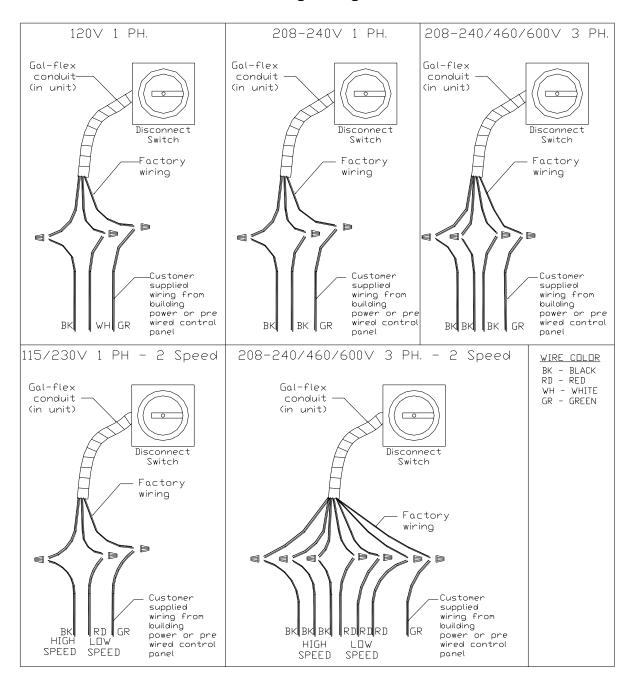
On units shipped with the optional motorized intake damper, a power transformer is supplied with the unit if the main incoming voltage is greater than 120V. The damper motor is automatically energized when the main disconnect switch is in the ON position. **No external wiring to the damper motor is required**.



Evolution Controls Inc.



Fan to Building Wiring Connection



Variable Frequency Drive (VFD) Installation Instructions

Input AC Power

- 1. Circuit breakers feeding the VFDs are recommended to be thermal-magnetic and fast acting. They should be sized based on the VFD amperage and according to the table below. Refer to the installation schematic for exact breaker sizing.
- 2. Each VFD should be fed by its own breaker. If multiple VFDs are to be combined on the same breaker, each drive should have its own protection measure (fuses or miniature circuit breaker) downstream from the breaker.
- 3. Input AC line wires should be run in conduit from the breaker panel to the drives. AC input power to multiple VFDs can be run in a single conduit if needed. **Do not combine input and output power cables in the same conduit.**
- 4. The VFD should be grounded on the terminal marked PE. A separate insulated ground wire must be provided to each VFD from the electrical panel. This will reduce the noise being radiated in other equipment.

ATTENTION!

DO NOT CONNECT INCOMING AC POWER TO OUTPUT TERMINALS U, V, W. SEVERE DAMAGE TO THE DRIVE WILL RESULT. INPUT POWER MUST ALWAYS BE WIRED TO THE INPUT L TERMINAL CONNECTIONS (L1, L2, L3)

VFD Output Power

- Motor wires from each VFD to its respective motor MUST be run in a separate steel conduit away from control wiring and incoming AC power wiring to avoid noise and crosstalk between drives. An insulated ground must be run from each VFD to its respective motor. Do not run different fans output power cables in the same conduit.
- 2. Load reactors: If the distance between the VFD and the motor is great, a load reactor should be used between the VFD and the motor. The output reactor should be sized accordingly and installed within 10 feet of the output of the VFD. 208/230V Load reactor should be used when distance exceeds 250 feet. 460/480V Load reactor should be used when distance exceeds 50 feet. 575/600V– Load reactor should be used when distance exceeds 25 feet.
- 3. If the distance between the VFD and the motor is extremely long, up to 1000 FT, a dV/dT filter should be used and the VFD should be increased by 1 HP or to the next size VFD. The dV/dT filter should be sized accordingly and installed within 10 feet of the output of the VFD. 208/230V dV/dT filter should be used when distance exceeds 400 feet. 460/480V dV/dT filter should be used when distance exceeds 250 feet. 575/600V dV/dT filter should be used when distance exceeds 150 feet.
- 4. No contactor should be installed between the drive and the motor. Operating such a device while the drive is running can potentially cause damage to the power components of the drive.
- 5. When a disconnect switch is installed between the drive and motor, the disconnect should only be operated when the drive is in a STOP state.

VFD Programming

Programming

- The Drive should be programmed for the proper motor voltage. P107 is set to 0 (Low) if motor voltage is 120 VAC, 208 VAC or 400 VAC. P107 is set to 1 (High) if motor voltage is 230 VAC,480 VAC or 575 VAC.
- 2. The Drive should be programmed for the proper motor overload value. P108 is calculated as Motor FLA x 100 / Drive Output Rating (available in table below).

To enter the PROGRAM mode to access the parameters:

- 1. Press the Mode (M) button. This will activate the password prompt (PASS).
- 2. Use the Up and Down buttons to scroll to the password value (the factory default password is "0225") and press the Mode (M) button. Once the correct password is entered, the display will read "P100", which indicates that the PROGRAM mode has been accessed at the beginning of the parameter menu.
- 3. Use the Up and Down buttons to scroll to the desired parameter number..
- 4. Once the desired parameter is found, press the Mode (M) button to display the present parameter setting. The parameter value will begin blinking, indicating that the present parameter setting is being displayed. The value of the parameter can be changed by using the Up and Down buttons.
- 5. Pressing the Mode (M) button will store the new setting and also exit the PROGRAM mode. To change another parameter, press the Mode (M) button again to re-enter the PROGRAM mode. If the Mode button is pressed within 1 minute of exiting the PROGRAM mode, the password is not required to access the parameters. After one minute, the password must be re-entered in order to access the parameters again.

P500 parameter provides a history of the last 8 faults on the drive. It can be accessed without getting into PROGRAM mode.

ACTECH SMV VFD CROSS-REFERENCE TABLE

| | | | | | Input Amps 1Ø | Input Amps 1Ø | Output | Breaker 1Ø | Breaker 1Ø |
|---------------|----------|----------|----------|------|---------------|---------------|--------|------------|------------|
| Model Number | Volts | 1Ø input | 3Ø input | HP | 120VAC | 240VAC | Amps | 120VAC | 240VAC |
| ESV251N01SXB | 120/240V | X | 0.2 | 0.33 | 6.8 | 3.4 | 1.7 | 15 | 15 |
| ESV371N01SXB | 120/240V | Х | | 0.5 | 9.2 | 4.6 | 2.4 | 15 | 15 |
| ESV751N01SXB | 120/240V | X | | 1 | 16.6 | 8.3 | 4.2 | 25 | 15 |
| ESV112N01SXB | 120/240V | X | | 1.5 | 20 | 10 | 6 | 30 | 20 |
| | | | | | Input Amps 1Ø | input Amps 3Ø | | Breaker 1Ø | Breaker 3Ø |
| ESV371N02YXB | 240V | Х | Х | 0.5 | 5.1 | 2.9 | 2.4 | 15 | 15 |
| ESV751N02YXB | 240V | Х | Χ | 1 | 8.8 | 5 | 4.2 | 15 | 15 |
| ESV112N02YXB | 240V | Х | Х | 1.5 | 12 | 6.9 | 6 | 20 | 15 |
| ESV152N02YXB | 240V | Х | Х | 2 | 13.3 | 8.1 | 7 | 25 | 15 |
| ESV222N02YXB | 240V | Х | Х | 3 | 17.1 | 10.8 | 9.6 | 30 | 20 |
| ESV402N02TXB | 240V | 7. | X | 5 | | 18.6 | 16.5 | - 55 | 30 |
| ESV552N02TXB | 240V | | X | 7.5 | | 26 | 23 | | 40 |
| ESV752N02TXB | 240V | | X | 10 | | 33 | 29 | | 50 |
| ESV113N02TXB | 240V | | X | 15 | | 48 | 42 | | 80 |
| ESV153N02TXB | 240V | | X | 20 | | 59 | 54 | | 90 |
| 2011001102112 | | | , | | | 00 | 0. | | - 55 |
| ESV751N04TXB | 480V | | Х | 1 | | 2.5 | 2.1 | | 15 |
| ESV112N04TXB | 480V | | X | 1.5 | | 3.6 | 3 | | 15 |
| ESV152N04TXB | 480V | | Х | 2 | | 4.1 | 3.5 | | 15 |
| ESV222N04TXB | 480V | | Х | 3 | | 5.4 | 4.8 | | 15 |
| ESV402N04TXB | 480V | | Х | 5 | | 9.3 | 8.2 | | 15 |
| ESV552N04TXB | 480V | | Х | 7.5 | | 12.4 | 11 | | 20 |
| ESV752N04TXB | 480V | | Х | 10 | | 15.8 | 14 | | 25 |
| ESV113N04TXB | 480V | | Х | 15 | | 24 | 21 | | 40 |
| ESV153N04TXB | 480V | | Х | 20 | | 31 | 27 | | 50 |
| ESV183N04TXB | 480V | | Х | 25 | | 38 | 34 | | 70 |
| ESV223N04TXB | 480V | | Х | 30 | | 45 | 40 | | 80 |
| ESV303N04TXB | 480V | | Х | 40 | | 59 | 52 | | 100 |
| ESV373N04TXB | 480V | | Х | 50 | | 74 | 65 | | 125 |
| ESV453N04TXB | 480V | | Х | 60 | | 87 | 77 | | 150 |
| | | | | | | | | | |
| ESV751N06TXB | 600V | | Χ | 1 | | 2 | 1.7 | | 15 |
| ESV152N06TXB | 600V | | Χ | 2 | | 3.2 | 2.7 | | 15 |
| ESV222N06TXB | 600V | | Χ | 3 | | 4.4 | 3.9 | | 15 |
| ESV402N06TXB | 600V | | Χ | 5 | | 6.8 | 6.1 | | 15 |
| ESV552N06TXB | 600V | | Χ | 7.5 | | 10.2 | 9 | | 20 |
| ESV752N06TXB | 600V | | Х | 10 | | 12.4 | 11 | | 20 |
| ESV113N06TXB | 600V | | Х | 15 | | 19.7 | 17 | | 30 |
| ESV153N06TXB | 600V | | Х | 20 | | 25 | 22 | | 40 |
| ESV183N06TXB | 600V | | Х | 25 | | 31 | 27 | | 50 |
| ESV223N06TXB | 600V | | Х | 30 | | 36 | 32 | | 60 |
| ESV303N06TXB | 600V | | Х | 40 | | 47 | 41 | | 70 |
| ESV373N06TXB | 600V | | Х | 50 | · | 59 | 52 | | 90 |
| ESV453N06TXB | 600V | | Χ | 60 | | 71 | 62 | | 110 |

OPERATION

Prior to starting up or operating the ventilator, check all fasteners for tightness. In particular, check the set screw in the wheel hub, bearings and the fan sheaves (pulleys). With power to the fan **OFF** or prior to connecting ventilator to power, turn the fan wheel by hand to be sure it is not striking the inlet or any obstacles. Re-center if necessary.

Start Up

Special Tools Required

- AC Voltage Meter
- Tachometer
- Amperage Meter
- Standard Hand Tools

Start Up Procedure

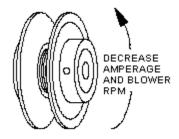
- 1. Check all electrical connections for tightness and continuity.
- 2. Check pulley alignment and belt tension as described below.
- 3. Inspect the condition of the intake damper and damper linkage, if provided.
- 4. Inspect the air-stream for obstructions and install intake filters if missing.
- 5. Compare the supplied **voltage** with the fan's nameplate voltage. If this does not match, correct the problem.
- 6. Start the fan up, by turning the external disconnect to the **ON** position, and shut it **OFF** immediately to **check rotation of the wheel** with the directional arrow on the blower scroll. Reversed rotation will result in poor air performance, motor overloading and possible burnout. For units equipped with a single-phase motor check the motor wiring diagram to change rotation. For 3-phase motors, any two power leads can be interchanged to reverse motor direction.
- 7. When the fan is started up, observe the operation and check for any unusual noises.
- 8. Switch the external disconnect back to the **ON** position and with the air system in full operation and all ducts attached, measure the system airflow. Motor sheave (pulley) is variable pitch, and allows for an increase or decrease of the fan RPM to adjust the airflow, as shown in the illustration below. For your convenience, a RPM chart is included in the following pages.
- 9. Once the proper airflow is achieved, measure and record the fan speed with a reliable tachometer. Caution Excessive speed will result in motor overloading or bearing failure.

 Do not set fan RPMs higher than specified in the maximum RPM chart. See the troubleshooting guide for more information.
- 10. Measure and record the **voltage** and **amperage** to the motor and compare with the motor nameplate to determine if the motor is operating under safe load condition.
- 11. Once the rpm of the ventilator has been properly set, disconnect power and recheck belt tension and pulley alignment as described below.

Maximum RPM and HP Chart

| Blower Size | Maximum RPM | Maximum HP |
|-------------|-------------|------------|
| 10" | 1800 | 2 |
| 12" | 1500 | 3 |
| 15" | 1400 | 5 |
| 18" | 1200 | 5 |
| 20" | 1000 | 10 |
| 25" | 900 | 20 |

Pulley Adjustment Illustration



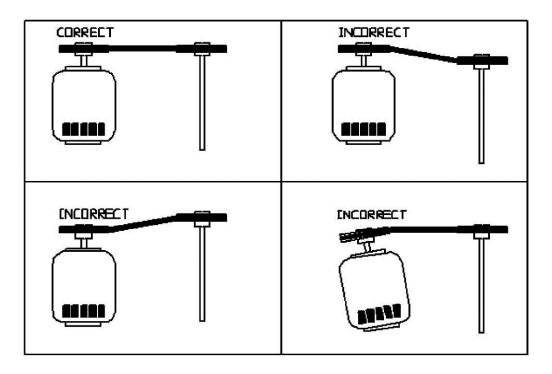
Pulley Adjustment

The adjustable motor pulley is factory set for the RPM specified. Speed can be increased by closing or decreased by opening the adjustable motor sheave. Two groove variable pitch pulleys must be adjusted an equal number of turns open or closed. Any increase in speed represents a substantial increase in horsepower required by the unit. Motor amperage should always be checked to avoid serious damage to the motor when the speed is varied. Always torque setscrews according to the setscrew torque chart.

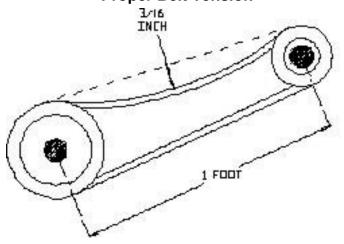
Pulley Setscrew Torque

| Thread Size | Torque (IN/Lb) |
|------------------|----------------|
| No. 10 (bushing) | 32 |
| 1/4" (bushing) | 72 |
| 5/16" | 130 |

Pulley Alignment



Proper Belt Tension



Pulley Combination Chart

| | Motor RPM | | 1725 | | | | | | | | | | | | | |
|--------------|--|---|---|---|---|---|---|--|---|--|---|---|--|--|---|--|
| | 1/3 to 1-1/2 HP | | MOTOR PULLEY 1VL34 | Dd1 | Dd2 | Pd1 | Pd2 | | | | | | | | | |
| | AX BELTS | | 1VL34 | 1.9 Open | 2.9 | 2 | 3 | TURNS | ON MOTOR | PULLEY | | | | Closed | | |
| | BLOWER PULLEY | DATUM DIAMETER | PITCH DIAMETER | 5 | 4 1/2 | 4 | 3 1/2 | 3 | 2 1/2 | 2 | 1 1/2 | 1 | 1/2 | 0 | | |
| | AK114 | 11 | 11.2 | 308 | 323 | 339 | 354 | 370 | 385 | 400 | 416 | 431 | 447 | 462 | | |
| | | | | | | | | | | | | | | | | |
| | 1/3 to 2 HP | | MOTOR PULLEY | Dd1 | Dd2 | Pd1 | Pd2 | | | | | | | | | |
| | AX BELTS | | 1VL40 | 2.4 | 3.4 | 2.6 | 3.6 | | | | | | | | | |
| | | 7 | | Open | | | | | ON MOTOR | | | | | Closed | | |
| | BLOWER PULLEY | DATUM DIAMETER | PITCH DIAMETER | 5 | 4 1/2 | 4 | 3 1/2 | 3 | 2 1/2 | 2 | 1 1/2 | 1 | 1/2 | 0 | | |
| | AK114 AK94 | 11 9 | 11.2 9.2 | 400 488 | 416 506 | 431 525 | 447 544 | 462 563 | 477 581 | 493 600 | 508 619 | 524 638 | 539 656 | 554 675 | | |
| | AK79 | 7.5 | 7.7 | 582 | 605 | 627 | 650 | 672 | 694 | 717 | 739 | 762 | 784 | 806 | | |
| | AK66 | 6.2 | 6.4 | 701 | 728 | 755 | 782 | 809 | 836 | 863 | 889 | 916 | 943 | 970 | | |
| ., | AK54 | 5 | 5.2 | 863 | 896 | 929 | 962 | 995 | 1028 | 1062 | 1095 | 1128 | 1161 | 1194 | | |
| * | AK46 | 4.2 | 4.4 | 1019 | 1059 | 1098 | 1137 | 1176 | 1215 | 1255 | 1294 | 1333 | 1372 | 1411 | | |
| ~ | AK39 | 3.5 | 3.7 | 1212 | 1259 | 1305 | 1352 | 1399 | 1445 | 1492 | 1539 | 1585 | 1632 | 1678 | | |
| ER | AK32 | 3 | 3.2 | 1402 | 1455 | 1509 | 1563 | 1617 | 1671 | 1725 | 1779 | 1833 | 1887 | 1941 | | |
| > | | | MOTOR BUILTY | 0.14 | 0.10 | 0.14 | 0.10 | | | | | | | | | |
| MO. | 3 to 5 HP BX BELTS | | MOTOR PULLEY 2VP42 | Dd1 2.9 | Dd2 3.9 | Pd1 3 | Pd2 4 | | | | | | | | | |
|)] | DX DEETS | | 20142 | Open | 3.3 | | - | | TURNS | ON MOTOR | PULLEY | | | | | Closed |
| В | BLOWER PULLEY | DATUM DIAMETER | PITCH DIAMETER | 6 | 5 1/2 | 5 | 4 1/2 | 4 | 3 1/2 | 3 | 2 1/2 | 2 | 1 1/2 | 1 | 1/2 | 0 |
| | 2BK160H | 15.4 | 15.7 | 330 | 339 | 348 | 357 | 366 | 375 | 385 | 394 | 403 | 412 | 421 | 430 | 439 |
| ΙN | 2BK140H | 13.4 | 13.7 | 378 | 388 | 399 | 409 | 420 | 430 | 441 | 451 | 462 | 472 | 483 | 493 | 504 |
| | 2BK120H | 11.4 | 11.7 | 442 | 455 | 467 | 479 | 491 | 504 | 516 | 528 | 541 | 553 | 565 | 577 | 590 |
| 20 | 2BK110H | 10.4 | 10.7 | 484 | 497 | 511 | 524 | 537 | 551 | 564 | 578 | 591 | 605 | 618 | 631 | 645 |
| | 2BK100H | 9.4 | 9.7 | 534 | 548 | 563 | 578 | 593 | 608 | 622 | 637 | 652 | 667 | 682 | 697 | 711 |
| - (| 2BK90H | 8.4 | 8.7 | 595 | 611 | 628 | 644 | 661 | 677 | 694 | 710 | 727 | 744 | 760 | 777 | 793 |
| 01 | 2BK80H 2BK70H | 7.4 6.4 | 7.7 6.7 | 672 772 | 691 794 | 709 815 | 728 837 | 747 858 | 765 880 | 784 901 | 803 923 | 821 944 | 840 965 | 859 987 | 877 1008 | 896 1030 |
| | 2BK60H | 5.4 | 5.7 | 908 | 933 | 958 | 984 | 1009 | 1034 | 1059 | 1084 | 1110 | 1135 | 1160 | 1185 | 1211 |
| | 2BK55H | 4.9 | 5.2 | 995 | 1023 | 1050 | 1078 | 1106 | 1133 | 1161 | 1189 | 1216 | 1244 | 1272 | 1299 | 1327 |
| | 2BK50H | 4.4 | 4.7 | 1101 | 1132 | 1162 | 1193 | 1223 | 1254 | 1285 | 1315 | 1346 | 1376 | 1407 | 1438 | 1468 |
| | | | | | | | | | | | | | | | | |
| | 7-1/2 to 10 HP | | MOTOR PULLEY | Dd1 | Dd2 | Pd1 | Pd2 | | | | | | | | | |
| | BX BELTS | | 2VP60 | 4.3 | 5.5 | 4.7 | 5.9 | | | | | | | | | |
| | | r | r | Open | | | | | | ON MOTOR | | | | | | Closed |
| | BLOWER PULLEY | DATUM DIAMETER | PITCH DIAMETER | 6 | 5 1/2 | 5 | 4 1/2 | 4 | 3 1/2 | 3 | 2 1/2 | 2 | 1 1/2 | 1 | 1/2 | 0 |
| | 2BK160H 2BK140H | 15.4 13.4 | 15.7 13.7 | 516 592 | 527 604 | 538 617 | 549 630 | 560 642 | 571 655 | 582 667 | 593 680 | 604 693 | 615 705 | 626 718 | 637 730 | 648 743 |
| | 2BK140H | 11.4 | 11.7 | 693 | 708 | 722 | 737 | 752 | 767 | 781 | 796 | 811 | 826 | 840 | 855 | 870 |
| | 2BK110H | 10.4 | 10.7 | 758 | 774 | 790 | 806 | 822 | 838 | 854 | 871 | 887 | 903 | 919 | 935 | 951 |
| | 2BK100H | 9.4 | 9.7 | 836 | 854 | 871 | 889 | 907 | 925 | 943 | 960 | 978 | 996 | 1014 | 1031 | 1049 |
| | 2BK90H | 8.4 | 8.7 | 932 | 952 | 972 | 991 | 1011 | 1031 | 1051 | 1071 | 1091 | 1110 | 1130 | 1150 | 1170 |
| | 2BK80H | 7.4 | 7.7 | 1053 | 1075 | 1098 | 1120 | 1143 | 1165 | 1187 | 1210 | 1232 | 1255 | 1277 | 1299 | 1322 |
| | | | | | | | | | | | | | | | | |
| | 3 to 5 HP BX BELTS | | MOTOR PULLEY 2VP42 | Dd1 2.9 | Dd2 3.9 | Pd1 3 | Pd2 4 | | | | | | | | | |
| | DA DELIG | | | | | | | | | ON MOTOR | PULLEY | | | | | |
| | | | | | | | | | TURNS | | | | | | | Closed |
| | BLOWER PULLEY | DATUM DIAMETER | PITCH DIAMETER | Open 6 | 5 1/2 | 5 | 4 1/2 | 4 | 3 1/2 | ON MOTOR | 2 1/2 | 2 | 1 1/2 | 1 | 1/2 | Closed 0 |
| | BLOWER PULLEY 2B5V278 | DATUM DIAMETER 27.8 | PITCH DIAMETER 28.1 | Open | 5 1/2 189 | 5 194 | 4 1/2 200 | 4 205 | | | 2 1/2 220 | 2 225 | 1 1/2 230 | 1 235 | 1/2 240 | |
| | | | | Open 6 | | | | | 3 1/2 | 3 | | | | | | 0 |
| | 285V278 285V250 285V234 | 27.8 25 23.4 | 28.1 25.3 23.7 | Open 6 184 205 218 | 189 210 224 | 194 216 230 | 200 222 237 | 205 227 243 | 3 1/2 210 233 249 | 3 215 239 255 | 220 244 261 | 225 250 267 | 230 256 273 | 235 261 279 | 240 267 285 | 0 246 273 291 |
| | 2B5V278 2B5V250 2B5V234 2B5V200 | 27.8 25 23.4 20 | 28.1 25.3 23.7 20.3 | Open 6 184 205 218 255 | 189 210 224 262 | 194 216 230 269 | 200 222 237 276 | 205 227 243 283 | 3 1/2 210 233 249 290 | 3 215 239 255 297 | 220 244 261 304 | 225 250 267 312 | 230 256 273 319 | 235 261 279 326 | 240 267 285 333 | 0 246 273 291 340 |
| | 285V278 285V250 285V234 285V200 285V184 | 27.8 25 23.4 20 18.4 | 28.1 25.3 23.7 20.3 18.7 | Open 6 184 205 218 255 277 | 189 210 224 262 284 | 194 216 230 269 292 | 200 222 237 276 300 | 205 227 243 283 307 | 3 1/2 210 233 249 290 315 | 3 215 239 255 297 323 | 220 244 261 304 331 | 225 250 267 312 338 | 230 256 273 319 346 | 235 261 279 326 354 | 240 267 285 333 361 | 0 246 273 291 340 369 |
| | 285V278 285V250 285V234 285V200 285V184 285V160 | 27.8 25 23.4 20 18.4 16 | 28.1 25.3 23.7 20.3 18.7 16.3 | Open 6 184 205 218 255 277 317 | 189 210 224 262 284 326 | 194 216 230 269 292 335 | 200 222 237 276 300 344 | 205 227 243 283 307 353 | 3 1/2 210 233 249 290 315 362 | 3 215 239 255 297 323 370 | 220 244 261 304 331 379 | 225 250 267 312 338 388 | 230 256 273 319 346 397 | 235 261 279 326 354 406 | 240 267 285 333 361 414 | 0 246 273 291 340 369 423 |
| | 285V278 285V250 285V234 285V200 285V184 285V160 285V154 | 27.8 25 23.4 20 18.4 16 15.4 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 | Open 6 184 205 218 255 277 317 330 | 189 210 224 262 284 326 339 | 194 216 230 269 292 335 348 | 200 222 237 276 300 344 357 | 205 227 243 283 307 353 366 | 3 1/2 210 233 249 290 315 362 375 | 3 215 239 255 297 323 370 385 | 220 244 261 304 331 379 394 | 225 250 267 312 338 388 403 | 230 256 273 319 346 397 412 | 235 261 279 326 354 406 421 | 240 267 285 333 361 414 430 | 0 246 273 291 340 369 423 439 |
| | 285V278 285V250 285V234 285V200 285V184 285V160 | 27.8 25 23.4 20 18.4 16 | 28.1 25.3 23.7 20.3 18.7 16.3 | Open 6 184 205 218 255 277 317 | 189 210 224 262 284 326 | 194 216 230 269 292 335 | 200 222 237 276 300 344 | 205 227 243 283 307 353 | 3 1/2 210 233 249 290 315 362 | 3 215 239 255 297 323 370 | 220 244 261 304 331 379 | 225 250 267 312 338 388 | 230 256 273 319 346 397 | 235 261 279 326 354 406 | 240 267 285 333 361 414 | 0 246 273 291 340 369 423 |
| | 285V278 285V250 285V234 285V200 285V184 285V160 285V154 285V136 | 27.8 25 23.4 20 18.4 16 15.4 12.6 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 | Open 6 184 205 218 255 277 317 330 401 | 189 210 224 262 284 326 339 412 | 194 216 230 269 292 335 348 423 | 200 222 237 276 300 344 357 435 | 205 227 243 283 307 353 366 446 | 3 1/2 210 233 249 290 315 362 375 457 | 3 215 239 255 297 323 370 385 468 | 220 244 261 304 331 379 394 479 | 225 250 267 312 338 388 403 490 | 230 256 273 319 346 397 412 501 | 235 261 279 326 354 406 421 513 | 240 267 285 333 361 414 430 524 | 0 246 273 291 340 369 423 439 535 |
| | 285V278 285V250 285V234 285V234 285V200 285V184 285V160 285V154 285V136 285V124 285V110 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 | Open 6 184 205 218 255 277 330 401 407 458 | 189 210 224 262 284 326 339 412 419 | 194 216 230 269 292 335 348 423 430 483 | 200 222 237 276 300 344 357 435 441 496 | 205 227 243 283 307 353 366 446 453 | 3 1/2 210 233 249 290 315 362 375 457 | 3 215 239 255 297 323 370 385 468 475 | 220 244 261 304 331 379 394 479 487 | 225 250 267 312 338 388 403 490 498 | 230 256 273 319 346 397 412 501 509 | 235 261 279 326 354 406 421 513 521 | 240 267 285 333 361 414 430 524 532 | 0 246 273 291 340 369 423 439 535 543 |
| ~ | 285V278 285V250 285V234 285V200 285V184 285V160 285V154 285V136 285V124 285V110 7-1/2 to 10 HP | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 | Open 6 184 205 218 255 277 317 330 401 407 458 | 189 210 224 262 284 326 339 412 419 471 | 194 216 230 269 292 335 348 423 430 483 | 200 222 237 276 300 344 357 435 441 496 | 205 227 243 283 307 353 366 446 453 | 3 1/2 210 233 249 290 315 362 375 457 | 3 215 239 255 297 323 370 385 468 475 | 220 244 261 304 331 379 394 479 487 | 225 250 267 312 338 388 403 490 498 | 230 256 273 319 346 397 412 501 509 | 235 261 279 326 354 406 421 513 521 | 240 267 285 333 361 414 430 524 532 | 0 246 273 291 340 369 423 439 535 543 |
| ш | 285V278 285V250 285V234 285V234 285V200 285V184 285V160 285V154 285V136 285V124 285V110 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 | Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 | 189 210 224 262 284 326 339 412 419 | 194 216 230 269 292 335 348 423 430 483 | 200 222 237 276 300 344 357 435 441 496 | 205 227 243 283 307 353 366 446 453 | 3 1/2 210 233 249 290 315 362 375 457 464 522 | 3 215 239 255 297 323 370 385 468 475 534 | 220 244 261 304 331 379 394 479 487 547 | 225 250 267 312 338 388 403 490 498 | 230 256 273 319 346 397 412 501 509 | 235 261 279 326 354 406 421 513 521 | 240 267 285 333 361 414 430 524 532 | 0 246 273 291 369 423 439 535 543 611 |
| ш | 2B5V278 2B5V250 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V156 2B5V124 2B5V110 7-1/2 to 10 HP BX BELTS | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 | Open 6 184 205 218 255 277 317 330 401 407 458 | 189 210 224 262 284 326 339 412 419 471 | 194 216 230 269 292 335 348 423 430 483 | 200 222 237 276 300 344 357 435 441 496 | 205 227 243 283 307 353 366 446 453 | 3 1/2 210 233 249 290 315 362 375 457 464 522 | 3 215 239 255 297 323 370 385 468 475 | 220 244 261 304 331 379 394 479 487 547 | 225 250 267 312 338 388 403 490 498 | 230 256 273 319 346 397 412 501 509 | 235 261 279 326 354 406 421 513 521 | 240 267 285 333 361 414 430 524 532 | 0 246 273 291 340 369 423 439 535 543 |
| OWER | 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V116 2B5V116 7-1/2 to 10 HP BX BELTS BLOWER PULLEY | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER | Open 6 184 205 218 255 218 255 317 330 401 407 458 Dd1 4.3 Open 6 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 | 200 222 237 276 300 344 357 435 441 496 Pd2 5,9 | 205 227 243 283 307 353 366 446 453 509 | 3 1/2 210 233 249 290 315 362 375 457 464 522 | 3 215 239 255 297 323 370 385 468 475 534 | 220 244 261 304 331 379 394 479 487 547 | 225 250 267 312 338 388 403 490 498 560 | 230 256 273 319 346 397 412 501 509 572 | 235 261 279 326 354 406 421 513 521 585 | 240 267 285 333 361 414 430 524 532 598 | 0 246 273 291 340 369 423 439 535 543 611 |
| LOWE | 2B5V278 2B5V250 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V156 2B5V124 2B5V110 7-1/2 to 10 HP BX BELTS | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 | Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open | 189 210 224 262 284 326 339 412 419 471 | 194 216 230 269 292 335 348 423 430 483 | 200 222 237 276 300 344 357 435 441 496 | 205 227 243 283 307 353 366 446 453 509 | 3 1/2 210 233 249 290 315 362 375 457 464 522 | 3 215 239 255 297 323 370 385 468 475 534 | 220 244 261 304 331 379 394 479 487 547 | 225 250 267 312 338 388 403 490 498 560 | 230 256 273 319 346 397 412 501 509 572 | 235 261 279 326 354 406 421 513 521 585 | 240 267 285 333 361 414 430 524 532 598 | 0 246 273 291 340 369 423 439 535 543 611 |
| ш | 2BSV278 2BSV250 2BSV234 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV116 2BSV116 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 | Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.8 Open 6 289 | 189 210 224 224 326 339 412 419 471 Dd2 5.5 | 194 216 230 292 335 348 423 430 483 Pd1 4.7 | 200 222 237 276 300 344 357 435 441 496 Pd2 5.9 | 205 227 243 283 307 353 366 446 453 509 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 | 3 215 239 255 297 323 370 385 468 475 534 | 220 244 261 304 331 379 394 479 487 547 | 225 250 267 338 388 403 490 498 560 | 230 256 273 319 346 397 412 501 509 572 | 235 261 279 326 354 406 421 513 521 585 | 240 267 285 333 361 414 430 524 532 598 | 0 246 273 291 340 369 423 429 535 543 611 |
| . BLOWE | 2BSV278 2BSV250 2BSV234 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV154 2BSV116 2BSV175 2BSV175 2BSV175 3BLOWER PULLEY 2BSV250 2BSV250 2BSV234 2BSV230 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 | Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 320 340 399 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 | 200 222 237 276 300 344 357 435 441 496 Pd2 5.9 4 1/2 307 341 364 425 | 205 227 243 307 353 366 446 453 509 4 4 313 348 371 433 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 | 3 215 239 255 297 323 370 385 468 475 534 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 | 225 250 267 312 338 388 403 490 498 560 2 338 375 400 | 230 256 253 319 346 397 412 501 509 572 1 1/2 344 382 408 476 | 235 261 279 326 354 406 421 513 521 585 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 | 0 246 273 273 291 340 369 423 439 554 611 Closed 0 362 402 402 501 |
| LOWE | 2B5V278 2B5V250 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V116 2B5V116 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V278 2B5V224 2B5V234 2B5V200 2B5V344 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 | Open 6 184 205 218 255 277 317 330 401 407 457 408 401 409 409 409 409 409 409 409 409 409 409 | 189 210 224 262 284 339 412 419 471 Dd2 5,5 5 1/2 295 327 349 408 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 357 416 452 | 200 222 237 276 300 344 357 435 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 | 205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 3 19 3 55 3 78 442 448 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 | 225 250 267 312 338 403 490 498 560 2 2 338 375 400 467 | 230 256 273 319 346 347 3412 501 509 572 1 1/2 344 382 408 476 517 | 235 261 279 326 354 406 421 513 521 585 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 423 535 | 0 246 273 291 340 423 429 501 422 429 544 544 544 544 544 544 544 544 544 54 |
| . BLOWE | 2BSV278 2BSV250 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV234 2BSV234 2BSV200 2BSV184 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 | Open 6 184 205 218 255 277 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 416 452 | 200 222 237 276 300 344 357 435 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 | 205 227 243 283 307 353 366 446 453 509 4 4 313 348 371 433 437 540 | 3 1/2 210 233 249 290 315 362 375 464 522 TURNS 3 1/2 319 3378 442 440 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 | 220 244 261 304 331 379 487 547 PULLEY 2 1/2 331 368 393 459 498 | 225 250 267 312 338 403 490 490 498 560 2 338 375 400 467 507 507 582 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 577 593 | 235 261 279 326 354 406 421 513 521 585 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 | 0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 624 |
| IN. BLOWE | 2BSV278 2BSV250 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV154 2BSV116 2BSV116 2BSV124 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV160 | 27.8 25 23.4 20 18.4 16 15.4 21.2.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.5 25 20 18.4 16 | 28.1 25.3 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 | Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 349 349 434 494 516 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 527 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 456 452 519 538 | 200 222 237 276 300 344 357 435 441 496 41/2 5.9 4 1/2 307 341 364 425 461 529 | 205 227 243 283 307 353 366 446 445 509 4 313 348 371 433 470 560 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 | 225 250 267 312 338 403 490 498 560 2 2 338 375 406 497 507 507 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 476 517 517 | 235 261 279 326 354 406 421 513 521 585 1 1 350 389 415 484 526 603 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 493 535 493 535 614 637 | 0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 648 |
| 5 IN. BLOWE | 2BSV278 2BSV250 2BSV250 2BSV234 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV1154 2BSV1154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV278 2BSV250 2BSV24 2BSV250 2BSV184 2BSV160 2BSV154 2BSV154 2BSV154 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 11 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 11.9 | Open 6 184 205 218 255 277 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 | 189 210 224 262 284 326 339 412 471 Dd2 5.5 5 1/2 295 327 349 408 403 508 527 642 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 357 416 452 519 559 | 200 222 237 276 300 344 357 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 549 | 205 227 243 283 307 353 366 4453 509 4 4 313 348 371 433 470 540 560 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 550 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 450 489 561 582 709 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 | 225 250 267 312 338 403 490 490 498 560 2 338 375 400 467 507 507 582 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 517 593 615 | 235 261 279 326 354 406 421 513 521 585 | 240 267 285 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 | 0 246 273 291 340 369 4223 439 535 543 611 Closed 0 362 402 429 501 544 624 624 628 789 |
| 5 IN. BLOWE | 2BSV278 2BSV250 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV154 2BSV116 2BSV116 2BSV124 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV160 | 27.8 25 23.4 20 18.4 16 15.4 21.2.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.5 25 20 18.4 16 | 28.1 25.3 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 | Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 349 349 434 494 516 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 527 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 456 452 519 538 | 200 222 237 276 300 344 357 435 441 496 41/2 5.9 4 1/2 307 341 364 425 461 529 | 205 227 243 283 307 353 366 446 445 509 4 313 348 371 433 470 560 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 | 225 250 267 312 338 403 499 560 2 338 375 400 467 507 582 604 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 476 517 517 | 235 261 279 326 354 406 421 513 521 585 1 350 389 415 484 603 626 603 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 493 535 493 535 614 637 | 0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 648 |
| 5 IN. BLOWE | 2BSV278 2BSV250 2BSV234 2BSV202 2BSV184 2BSV160 2BSV154 2BSV160 2BSV154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV250 2BSV250 2BSV234 2BSV200 2BSV184 2BSV154 2BSV150 2BSV154 2BSV154 2BSV154 2BSV154 2BSV154 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 20 18.4 20 18.4 20 20 20 20 20 20 20 20 20 20 20 20 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 21.9 12.9 12.7 16.3 15.7 12.9 12.7 | Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 349 349 434 434 434 628 638 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 527 642 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519 538 655 | 200 222 237 276 300 344 357 435 445 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 549 669 | 205 227 243 283 307 353 366 446 445 3509 4 313 348 371 433 470 560 682 693 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 5 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 709 720 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 | 225 250 267 312 338 388 403 499 498 560 2 338 375 407 507 507 507 507 507 507 507 507 507 5 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749 | 235 261 279 326 324 406 421 513 521 585 1 350 389 415 526 603 626 762 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 532 422 493 535 637 776 | 0 246 273 291 369 423 439 535 543 611 Closed 0 362 402 429 501 544 648 789 801 |
| 5 IN. BLOWE | 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV160 2BSV1124 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV250 2BSV234 2BSV250 2BSV234 2BSV2160 2BSV154 2BSV1160 2BSV154 2BSV1160 2BSV154 2BSV110 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 20 18.4 20 18.4 20 20 20 20 20 20 20 20 20 20 20 20 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 11.3 | Open 6 184 205 218 255 277 317 330 407 458 Dd1 407 458 Open 6 289 320 342 399 434 497 516 628 638 717 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 527 642 652 733 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 357 416 452 519 538 655 666 748 | 200 222 237 276 303 344 357 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 669 679 763 | 205 227 243 283 307 353 366 446 445 3509 4 313 348 371 433 470 560 682 693 | 3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 3 1/2 5 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 709 720 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 | 225 250 267 312 338 388 403 499 498 560 2 338 375 407 507 507 507 507 507 507 507 507 507 5 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749 | 235 261 279 326 324 406 421 513 521 585 1 350 389 415 526 603 626 762 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 532 422 493 535 637 776 | 0 246 273 273 291 369 423 439 535 543 611 Closed 0 362 402 429 501 544 648 789 801 |
| 5 IN. BLOWE | 2BSV278 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV1154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV250 2BSV24 2BSV200 2BSV184 2BSV160 2BSV154 2BSV160 2BSV154 2BSV160 2BSV154 2BSV154 2BSV154 2BSV1160 2BSV1 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 20 18.4 20 18.4 20 20 20 20 20 20 20 20 20 20 20 20 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 16.3 15.9 12.9 12.7 11.3 | Open 6 184 205 218 205 218 255 277 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 342 399 494 497 516 628 638 717 Dd1 5,8 | 189 210 224 262 284 326 339 412 419 471 D02 5.5 5 1/2 295 327 349 408 443 508 527 642 652 733 | 194 216 230 269 292 335 348 423 430 483 430 483 344 47 5 301 334 45 5 19 47 47 | 200 222 237 276 300 344 357 441 496 62 5.9 4 1/2 307 341 364 425 469 679 763 | 205 227 243 283 307 353 366 446 445 3509 4 313 348 371 433 470 560 682 693 | 3 1/2 210 213 249 290 315 362 375 457 464 522 TURNSS 3 1/2 319 355 378 442 480 550 5706 794 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 450 450 450 561 582 709 720 809 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 571 593 722 733 824 | 225 250 267 312 338 388 403 499 498 560 2 338 375 407 507 507 507 507 507 507 507 507 507 5 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749 | 235 261 279 326 324 406 421 513 521 585 1 350 389 415 526 603 626 762 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 532 422 493 535 637 776 | 0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 624 628 789 801 901 |
| 5 IN. BLOWE | 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV250 2BSV24 2BSV200 2BSV184 2BSV210 2BSV184 2BSV210 2BSV184 2BSV210 2BSV184 2BSV2184 2BSV2184 2BSV2184 2BSV2184 2BSV2184 2BSV2184 2BSV2184 2BSV2184 2BSV1184 2BSV1186 2BS | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 11 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 22.3 16.3 15.7 20.3 18.7 20.3 18.7 21.3 22.3 22.3 22.3 23.7 24.3 25.3 25.3 25.3 26.3 27.3 27.3 28.7 29.3 29.3 29.3 29.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20 | Open 6 184 205 188 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 638 717 Dd1 58 Open | 189 210 224 262 284 326 339 412 419 471 Dd2 5,5 5 1/2 295 327 349 408 443 508 527 642 652 733 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519 538 656 748 Pd1 6.2 | 200 222 237 276 300 344 357 441 496 Pd2 5.9 4 1/2 307 341 425 461 529 549 669 679 763 | 205 227 243 283 307 353 366 446 453 509 4 4 313 348 371 433 470 560 660 660 660 660 660 660 | 3 1/2 210 223 249 249 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 570 695 706 794 | 3 215 239 255 297 323 370 385 468 475 534 325 361 386 450 489 720 809 720 809 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 | 225 250 267 312 338 388 403 490 498 560 2 338 375 400 467 507 582 604 737 747 840 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 761 855 | 235 261 279 326 406 421 513 521 585 1 359 415 484 526 603 626 762 774 870 | 240 267 285 333 361 414 430 532 598 1/2 356 395 493 535 614 637 788 885 | 0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 564 801 901 Closed 624 648 789 801 901 Closed |
| 5 IN. BLOWE | 2BSV278 2BSV250 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV154 2BSV110 7-1/2 to 10 HP BX BELTS 2BSV250 2BSV250 2BSV234 2BSV250 2BSV234 2BSV250 2BSV234 2BSV2160 2BSV250 2BSV250 2BSV250 2BSV250 2BSV250 2BSV250 2BSV250 2BSV184 2BSV210 15 to 20 HP BX BELTS BLOWER PULLEY | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 11 DATUM DIAMETER | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 | Open 6 184 205 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 434 497 516 628 638 717 Dd1 5.8 Open 6 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 443 508 7 642 652 733 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519 519 666 748 | 200 222 237 276 303 344 357 441 496 Pd2 5,9 4 1/2 307 341 364 425 461 529 669 679 763 | 205 227 243 283 307 353 366 446 453 509 4 4 313 348 371 433 470 540 682 682 683 779 | 3 1/2 210 223 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 706 794 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 489 561 386 450 489 561 389 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 | 225 250 267 312 338 338 403 499 498 560 2 338 375 400 467 507 507 840 840 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 591 691 691 691 691 691 691 691 691 691 6 | 235 261 279 326 354 406 421 513 521 585 1 1 350 389 415 484 526 603 627 774 870 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 613 776 788 885 | 0 246 273 291 340 369 423 439 439 611 Closed 0 362 402 429 501 544 624 648 789 801 901 Closed 0 Closed 0 |
| 5 IN. BLOWE | 2BSV278 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV200 2BSV124 2BSV100 2BSV154 2BSV100 2BSV154 2BSV100 2BSV154 2BSV100 2BSV154 2BSV100 2BSV154 2BSV110 15 to 20 HP BX BELTS BLOWER PULLEY 2BSV278 BLOWER PULLEY 2BSV278 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 DATUM DIAMETER 11 DATUM DIAMETER 27.8 27 20 18.4 16 15.4 11 11 DATUM DIAMETER 27.8 27 20 20 20 20 20 20 20 20 20 20 20 20 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 16.3 15.7 16.3 15.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.1 25.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20 | Open 6 8 184 205 218 255 217 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6 6 381 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 527 642 652 733 Dd2 7 | 194 216 220 269 292 335 348 423 430 483 430 483 301 334 47 5 301 334 45 519 538 666 748 Pd1 6.2 | 200 222 237 276 300 344 357 441 496 62 5.9 4 1/2 307 341 529 549 669 679 763 Pd2 7.4 | 205 227 223 283 307 353 366 453 509 4 4 313 348 371 433 470 540 560 682 693 779 | 3 1/2 210 223 249 315 362 375 457 464 522 TURNS 3 1/2 319 355 706 794 TURNS 3 1/2 411 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 450 450 450 450 489 561 561 582 709 720 809 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY | 225 250 267 312 338 388 403 499 560 2 2 338 375 400 467 507 582 604 735 747 840 | 230 256 273 319 346 397 412 501 509 572 11/2 344 382 408 476 517 593 615 749 761 855 | 235 261 279 326 354 406 421 513 521 585 1 359 415 484 526 603 626 762 774 870 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 788 885 | 0 246 273 291 340 369 423 355 543 611 Closed 0 362 402 429 501 544 624 624 624 624 624 624 624 624 624 6 |
| 5 IN. BLOWE | 2BSV278 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV1164 2BSV117 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV234 2BSV250 2BSV184 2BSV160 2BSV154 2BSV160 2BSV154 2BSV154 2BSV154 2BSV154 2BSV154 2BSV154 2BSV110 15 to 20 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV278 | 27.8 25 23.4 20 18.4 16 15.4 11 DATUM DIAMETER 27.8 25 21.4 20 20 21.4 21 20 21.4 21 20 21.4 21 20 21.4 20 21.4 20 21.4 20 20 21.4 20 20 21.4 21 20 20 21.4 21 21 21 22 20 22 23.4 20 20 23.4 20 20 20 20 20 20 20 20 20 20 20 20 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 15.7 20.3 18.7 20.3 18.7 20.3 19.7 20.3 23.7 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 | Open 6 184 205 184 205 218 255 277 330 401 407 458 Dd1 4.3 Open 6 289 320 342 342 349 3516 628 717 Dd1 5.8 Open 6 6 38 717 | 189 210 224 262 284 326 339 412 419 471 Dd2 5,5 5 1/2 295 327 349 443 508 527 642 7 51/2 387 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 455 519 538 655 748 Pd1 6.2 | 200 222 237 276 303 344 357 441 496 Pd2 4 1/2 307 341 364 425 461 529 549 669 763 Pd2 7.4 4 1/2 399 443 | 205 227 243 283 307 353 366 446 453 509 4 313 348 37 470 560 682 779 | 3 1/2 210 223 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 794 TURNS 3 1/2 411 457 | 3 215 239 255 297 323 370 385 468 475 534 534 5534 5534 5534 5534 5536 25 66 67 67 67 67 67 67 67 67 67 67 67 67 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 424 470 | 225 250 267 312 338 388 403 490 498 560 2 338 375 407 507 582 604 735 747 840 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 476 517 593 615 749 615 749 1 1/2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 235 261 279 326 324 406 421 513 521 585 1 350 389 415 526 603 626 762 774 870 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 885 | 0 246 273 291 340 369 423 555 543 611 Closed 0 362 402 429 501 544 624 8789 801 901 Closed 0 454 505 |
| 5 IN. BLOWE | 2BSV278 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV200 2BSV124 2BSV100 2BSV154 2BSV100 2BSV154 2BSV100 2BSV154 2BSV100 2BSV154 2BSV100 2BSV154 2BSV110 15 to 20 HP BX BELTS BLOWER PULLEY 2BSV278 BLOWER PULLEY 2BSV278 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 DATUM DIAMETER 11 DATUM DIAMETER 27.8 27 20 18.4 16 15.4 11 11 DATUM DIAMETER 27.8 27 20 20 20 20 20 20 20 20 20 20 20 20 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 16.3 15.7 16.3 15.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.1 25.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20 | Open 6 8 184 205 218 255 217 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6 6 381 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 527 642 652 733 Dd2 7 | 194 216 220 269 292 335 348 423 430 483 430 483 301 334 47 5 301 334 45 519 538 666 748 Pd1 6.2 | 200 222 237 276 300 344 357 441 496 62 5.9 4 1/2 307 341 529 549 669 679 763 Pd2 7.4 | 205 227 223 283 307 353 366 453 509 4 4 313 348 371 433 470 540 560 682 693 779 | 3 1/2 210 223 249 315 362 375 457 464 522 TURNS 3 1/2 319 355 706 794 TURNS 3 1/2 411 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 450 450 450 450 489 561 561 582 709 720 809 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY | 225 250 267 312 338 388 403 499 560 2 2 338 375 400 467 507 582 604 735 747 840 | 230 256 273 319 346 397 412 501 509 572 11/2 344 382 408 476 517 593 615 749 761 855 | 235 261 279 326 354 406 421 513 521 585 1 359 415 484 526 603 626 762 774 870 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 788 885 | 0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 429 501 544 624 624 624 624 624 624 624 624 624 6 |
| 5 IN. BLOWE | 2BSV278 2BSV2750 2BSV2750 2BSV234 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV1154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 11.4 11 DATUM DIAMETER 27.8 25 21.4 20 20 20 20 20 20 20 20 20 20 20 20 20 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 11.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 29.3 18.7 16.3 11.7 11.3 MOTOR PULLEY 2VP75 PITCH DIAMETER 28.1 28.1 29.3 29.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20 | Open 6 184 205 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 434 497 516 628 638 717 Dd1 5.8 Open 6 381 423 451 557 | 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 527 733 Dd2 7 5 1/2 387 430 | 194 216 230 269 292 335 348 423 430 483 Pd1 4,7 5 301 334 357 416 452 519 538 655 666 748 Pd1 6,2 | 200 222 237 276 303 344 357 445 441 496 496 41/2 307 341 529 549 679 679 763 Pd2 7,4 4 1/2 399 443 443 | 205 227 243 283 306 366 446 453 509 4 4 313 348 470 540 560 662 693 779 | 3 1/2 210 223 249 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706 794 TURNS 3 1/2 411 457 | 3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 450 9720 809 720 800 800 800 800 800 800 800 800 800 8 | 220 2444 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 424 470 502 | 225 250 267 312 338 388 403 499 498 560 2 338 375 400 467 507 507 840 735 747 840 | 230 256 273 319 346 397 412 501 509 572 11/2 344 382 476 517 593 615 761 855 | 235 261 279 326 354 406 421 513 521 585 1 1 350 389 415 484 526 603 626 762 774 870 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 788 885 | 0 246 273 291 340 369 423 355 543 611 Closed 0 362 442 429 501 544 624 648 789 801 901 Closed 0 4595 539 629 629 689 |
| 5 IN. BLOWE | 2BSV278 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV200 2BSV184 2BSV110 2BSV114 2BSV110 15 to 20 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV250 2BSV184 2BSV110 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 11 DATUM DIAMETER 27.8 18.4 16 18.4 11 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.1 25.3 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 16.3 15.9 12.9 12.7 11.3 | Open 6 184 205 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6 61 5,8 Open 6 62 62 63 638 717 | 189 210 224 262 284 326 339 412 419 471 D02 5.5 51/2 295 327 349 408 443 508 527 642 652 733 D02 7 5 1/2 387 430 459 535 581 | 194 216 220 269 292 335 348 423 430 483 430 483 301 334 47 55 301 334 47 59 58 666 748 Pd1 6.2 5 393 436 466 544 590 | 200 222 237 276 300 344 357 435 441 496 25.9 4 1/2 307 341 364 425 461 529 549 669 679 763 84 41/2 399 443 473 473 552 600 688 | 205 227 223 283 307 353 366 453 509 4 4 313 348 371 433 470 540 560 693 779 | 3 1/2 210 223 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 TURNS 480 569 618 | 3 215 239 255 297 323 370 385 468 475 534 361 386 450 489 561 582 709 720 809 ON MOTOR 3 417 464 495 578 627 720 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 424 470 502 586 636 730 | 225 250 267 312 338 388 403 499 560 2 2 338 490 498 560 2 2 338 375 400 467 507 582 604 735 747 840 | 230 256 273 319 346 397 412 501 509 572 11/2 344 382 408 476 517 593 615 749 761 855 | 235 261 279 326 354 406 421 513 521 585 1 359 415 484 526 603 626 762 774 870 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 531 614 637 776 788 885 | 0 246 273 291 340 369 423 355 543 551 543 6111 Closed 0 362 429 501 544 555 551 562 562 663 783 763 763 763 763 |
| 5 IN. BLOWE | 2BSV278 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV116 2BSV116 2BSV117 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV234 2BSV200 2BSV184 2BSV154 2BSV110 15 to 20 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV278 2BSV250 2BSV184 2BSV100 2BSV114 2BSV110 2BSV154 2BSV150 2BSV154 2BSV150 2BSV154 2BSV150 2BSV154 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11.4 11 DATUM DIAMETER 27.8 20 18.4 16 15.4 11 11 DATUM DIAMETER 27.8 20 18.4 16 15.4 11 11 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 15.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 20.7 20.3 20.7 20.8 20.7 20.8 20.7 20.8 20.7 20.8 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 | Open 6 184 205 184 205 218 255 277 330 401 407 458 Dd1 4.3 Open 6 289 320 342 342 342 345 516 628 717 Dd1 528 Open 6 6 381 497 516 638 717 | 189 210 224 262 284 326 339 412 419 471 Dd2 5,5 5 1/2 295 327 408 443 508 527 642 7 5 1/2 5 1/2 6 5 1/2 7 5 1/2 6 6 5 2 7 3 3 | 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 455 416 452 519 538 655 748 Pd1 6.2 | 200 222 237 276 303 344 357 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 549 669 763 Pd2 7.4 4 1/2 399 4 1/2 399 4 1/2 399 668 714 | 205 227 243 283 307 353 366 446 453 509 4 4 313 348 373 470 560 682 779 4 4 0 560 480 561 693 693 779 | 3 1/2 210 213 249 290 315 362 457 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 794 TURNS 3 1/2 481 706 794 | 3 215 239 255 297 323 370 385 468 475 534 325 361 386 450 489 561 582 709 720 609 609 609 609 609 609 609 609 609 60 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 424 470 502 586 636 730 758 | 225 250 267 312 338 388 403 499 498 560 2 338 375 407 467 507 582 604 735 407 840 407 735 840 | 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 476 517 615 749 484 484 517 603 655 751 780 | 235 261 279 326 324 406 421 513 521 585 1 350 389 415 526 603 626 762 774 870 | 240 267 27 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 885 1/2 488 531 620 673 773 882 | 0 246 273 291 340 369 423 369 423 369 423 361 1 |
| 25 IN. BLOWE | 2BSV278 2BSV278 2BSV250 2BSV234 2BSV200 2BSV184 2BSV160 2BSV154 2BSV1154 2BSV1154 2BSV110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2BSV278 2BSV250 2BSV160 2BSV154 2BSV160 2BSV154 2BSV160 2BSV154 2BSV160 2BSV154 2BSV160 2BSV154 2BSV124 2BSV124 2BSV278 2BSV278 2BSV278 2BSV278 2BSV278 2BSV278 2BSV278 2BSV284 2BSV160 2BSV154 2BSV110 BLOWER PULLEY 2BSV278 | 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 11 DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 11 DATUM DIAMETER 27.8 18.4 16 18.4 11 | 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 11.3 MOTOR PULLEY 2VP50 PITCH DIAMETER 28.1 25.3 29.3 18.7 16.3 15.7 12.9 12.7 11.3 | Open 6 184 205 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6 61 5,8 Open 6 62 62 63 638 717 | 189 210 224 262 284 326 339 412 419 471 D02 5.5 51/2 295 327 349 408 443 508 527 642 652 733 D02 7 5 1/2 387 430 459 535 581 | 194 216 220 269 292 335 348 423 430 483 430 483 301 334 47 55 301 334 47 59 58 666 748 Pd1 6.2 5 393 436 466 544 590 | 200 222 237 276 300 344 357 435 441 496 25.9 4 1/2 307 341 364 425 461 529 549 669 679 763 84 41/2 399 443 473 473 552 600 688 | 205 227 223 283 307 353 366 453 509 4 4 313 348 371 433 470 540 560 693 779 | 3 1/2 210 223 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 TURNS 480 569 618 | 3 215 239 255 297 323 370 385 468 475 534 361 386 450 489 561 582 709 720 809 ON MOTOR 3 417 464 495 578 627 720 | 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 424 470 502 586 636 730 | 225 250 267 312 338 388 403 499 560 2 2 338 490 498 560 2 2 338 375 400 467 507 582 604 735 747 840 | 230 256 273 319 346 397 412 501 509 572 11/2 344 382 408 476 517 593 615 749 761 855 | 235 261 279 326 354 406 421 513 521 585 1 359 415 484 526 603 626 762 774 870 | 240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 531 614 637 776 788 885 | 0 246 273 291 340 369 423 355 543 551 543 6111 Closed 0 362 429 501 544 555 551 562 562 663 783 763 763 763 763 |

Re-Circulating Control Options

Manual Positioning Control (Potentiometer)

The dampers can be controlled at a remote location by a manual potentiometer to any position from 20% to 100% fresh air. This will allow manually setting the dampers to match the building ventilation requirements. It will take an extra 3 control wires at the remote location. On a power failure, or if the unit is turned off, the return air damper will close by spring return.



Two Position Control

The dampers can be controlled by a two position switch (a field supplied switching device) to open the fresh air to 100%. On opening of the circuit, power failure, or if the unit is shutoff, the return air damper will close by spring return.

Static Pressure Control (Photohelic)

The dampers can be controlled by a building static pressure control. This controller will sense the difference between pressure inside the building, and pressure outside the building (sensed at the A306 outdoor sensor), and position the dampers to maintain the pressure setting on the controller. The controller has two set points and an indicator. The two set points are a minimum desired static pressure point, and a maximum static pressure point.

The actual building static pressure will be shown by a visual indicator between these two settings. The controller will modulate the dampers to maintain a static pressure between these set points.

When building static pressure is below the minimum setting, the damper motor will proportionally open the fresh air damper and close the return air damper until static increases above the minimum setting. At this point, the damper motor will stop and hold this proportion.

If the building static continues to climb and goes above maximum setting, the damper motor will reverse proportion, closing the fresh air damper and opening the return air damper until static drops below maximum setting.

During the "OFF" or "Night" cycle of the unit, an internal switching circuit will close the return air damper.

See additional wiring and installation information on the static pressure controller and A306 outdoor sensor.

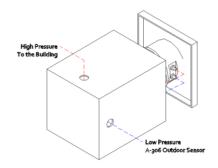
Static Pressure Controller Installation Instructions

Avoid locating the front of the static pressure controller in sun light or other areas with high ambient light or corrosive levels. Bright light shining on the photocells can cause false actuation of the load relays.

The static pressure controller should be zeroed out before attaching the low and high pressure hoses. The zero adjustment is located between the minimum and maximum dials.



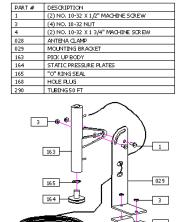
Using the supplied rubber tubing the high side of the static pressure controller should be plumbed to the inside of the building. The low side of the static pressure controller should be plumbed to the A306 outdoor sensor. See the A306 installation instructions.

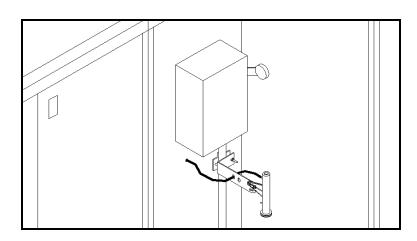




A306 Outdoor Sensor

Use the installation instructions shipped with the A306 outdoor sensor.





Building Signal Damper Control

When this option is ordered, the supply and return dampers will modulate based on a 0-10 VDC signal from the Building automation system.

Troubleshooting

The following table lists causes and corrective actions for possible problems with the fan units. Review this list prior to consulting manufacturer.

Troubleshooting Chart

| Problem | Potential Cause | Corrective Action |
|-------------------------------|--|-----------------------------------|
| Fan Inoperative | Blown fuse or open circuit breaker | Replace fuse or reset circuit |
| | | breaker and check amps |
| | Disconnect switch in "Off" position | Turn to "On" position |
| | Motor wired incorrectly | Check motor wiring to wiring |
| | | diagram located on fan motor |
| | Broken fan belt | Replace belt |
| | Motor starter overloaded | Reset starter and check amps |
| Motor Overload | Fan rotating in the wrong direction | Be sure fan is rotating in the |
| | | direction shown on rotation label |
| | Fan speed is too high | Reduce fan RPM |
| | Motor wired incorrectly | Check motor wiring to wiring |
| | - | diagram located on fan motor |
| | Overload in starter set too low | Set overload to motor FLA value |
| | Motor HP too low | Determine if HP is sufficient for |
| | | job |
| | Duct static pressure lower than design | Reduce fan RPM |
| Insufficient Airflow | Fan rotating in the wrong direction | Be sure fan is rotating in the |
| | | direction shown on rotation label |
| | Poor outlet conditions | There should be a straight clear |
| | | duct at the outlet |
| | Intake damper not fully open | Inspect damper linkage and |
| | | replace damper motor if needed |
| | Duct static pressure higher than | Improve ductwork to eliminate or |
| | design | reduce duct losses |
| | Blower speed too low | Increase fan RPM. Do not |
| | | overload motor |
| | Supply grills or registers closed | Open and adjust |
| | Dirty or clogged filters | Clean and/or replace |
| | Belt slippage | Adjust belt tension |
| Excessive Airflow | Blower speed to high | Reduce fan RPM |
| | Filters not installed | Install filters |
| | Duct static pressure lower than | Reduce fan RPM |
| | design | |
| Excessive Vibration and Noise | Misaligned pulleys | Align pulleys |
| | Damaged or unbalanced wheel | Replace wheel |
| | Fan is operating in the unstable | Refer to performance curve for |
| | region of the fan curve | fan |
| | Bearings need lubrication or | Lubricate or replace |
| | replacement | • |
| | Fan speed is too high | Reduce fan RPM |
| | Belts too loose, worn or oily | Inspect and replace if needed |

MAINTENANCE

To guarantee trouble free operation of this fan, the manufacturer suggests following these guidelines. Most problems associated with fan failures are directly related to poor service and maintenance.

Please record any maintenance or service performed on this fan in the documentation section located at the end of this manual.

WARNING: DO NOT ATTEMPT MAINTENANCE ON THE FAN UNTIL THE ELECTRICAL SUPPLY HAS BEEN COMPLETELY DISCONNECTED

General Maintenance

- 1. Fan inlet and approaches to ventilator should be kept clean and free from any obstruction.
- 2. Motors are normally permanently lubricated. Check bearings periodically. If they have grease fittings lubricate each season. Use caution when lubricating bearings, wipe the fittings clean, the unit should be rotated by hand while lubricating. Caution: Use care when touching the exterior of an operating motor. Motors normally run hot and may be hot enough to be painful or cause injury.
- 3. All fasteners should be checked for tightness each time maintenance checks are preformed prior to restarting unit.
- 4. Blowers require very little attention when moving clean air. Occasionally oil and dust may accumulate causing imbalance. If the fan is installed in a corrosive or dirty atmosphere, periodically inspect and clean the wheel, inlet and other moving parts to ensure smooth and safe operation.

2 weeks after startup

- 1. Belt tension should be checked after the first 2 weeks of fan operation. Belts tend to stretch and settle into pulleys after an initial start-up sequence. Do not tension belts by changing the setting of the motor pulley, this will change the fan speed and may damage the motor. To retension belts, turn the power to the fan motor OFF. Loosen the fasteners that hold the blower scroll plate to the blower. Rotate the motor to the left or right to adjust the belt tension. Belt tension should be adjusted to allow 1/64" of deflection per inch of belt span. Exercise extreme care when adjusting V-belts as not to misalign pulleys. Any misalignment will cause a sharp reduction in belt life and produce squeaky noises. Over-tightening will cause excessive belt and bearing wear as well as noise. Too little tension will cause slippage at startup and uneven wear. Whenever belts are removed or installed, never force belts over pulleys without loosening motor first to relieve belt tension. When replacing belts, use the same type as supplied by the manufacturer. On units shipped with double groove pulleys, matched belts should always be used.
- 2. All fasteners should be checked for tightness each time maintenance checks are preformed prior to restarting unit.

Every 3 months

- 1. Belt tension should be checked quarterly. See instructions in the previous maintenance section. Over-tightening will cause excessive bearing wear and noise. Too little tension will cause slippage at startup and uneven wear.
- 2. Filters need to be cleaned and/or replaced quarterly, and more often in severe conditions. Washable filters can be washed in warm soapy water. When re-installing filters, be sure to install with the **airflow in the correct direction** as indicated on the filter.

Filter Quantity Chart

| Intake | 16" x 20" | 20" x 25" |
|------------------------|-----------|-----------|
| Size 1 Standard Sloped | 2 | |
| Size 2 Standard Sloped | | 2 |
| Size 1 Modular Sloped | 3 | |
| Size 2 Modular Sloped | | 3 |
| Size 3 Modular Sloped | 6 | |
| Size 4 Modular Sloped | 10 | |
| Size 5 Modular Sloped | | 8 |
| Size 1 V-Bank | | 3 |
| Size 2 V-Bank | 8 | |
| Size 3 V-Bank | | 8 |
| Size 4 V-Bank | 15 | |
| Size 5 V-Bank | | 12 |
| Size 1 INLINE | 1 | |
| Size 2 INLINE | | 1 |
| Size 3 INLINE | | 2 |

Optional Mixing Box Filters

Diagonal Filters

| Unit Size | Filter Quantity | Filter Size |
|-----------|-----------------|-------------|
| 1 | 4 | 10 x 16 |
| 2 | 2 | 20 x 25 |
| 3 | 4 | 15 X 20 |
| 4 | 4 | 18 X 25 |
| 5 | 9 | 14.5 x 19 |

Vertical Filters

| Unit Size | Filter Quantity | Filter Size |
|-----------|-----------------|-------------|
| 1 | 1 | 10 x 16 |
| 2 | 1 | 16 x 25 |
| 3 | 2 | 15 x 15 |
| 4 | 2 | 16 x 20 |
| 5 | 3 | 14.5 x 19 |

Yearly

- 1. Inspect bearings for wear and deterioration. Replace if necessary.
- 2. Inspect belt wear and replace torn or worn belts.
- 3. Inspect bolts and set screws for tightness. Tighten as necessary.
- 4. Inspect motor for cleanliness. Clean exterior surfaces only. Remove dust and grease from the motor housing to ensure proper motor cooling. Remove dirt and grease from the wheel and housing to prevent imbalance and damage.

Start-Up and Maintenance Documentation

START-UP AND MEASUREMENTS SHOULD BE PERFORMED AFTER THE SYSTEM HAS BEEN AIR BALANCED (Warranty will be void without completion of this form)

Job Information

| Job Name | Service Company |
|---------------|-----------------|
| Address | Address |
| City | City |
| State | State |
| Zip | Zip |
| Phone Number | Phone Number |
| Fax Number | Fax Number |
| Contact | Contact |
| Purchase Date | Start-Up Date |

Fan Unit Information

Refer to the start-up procedure in this manual to complete this section.

| Name Plate and Unit Information | Field Measured Information | |
|---------------------------------|----------------------------|--|
| Model Number | Voltage | |
| Serial Number | Amperage** | |
| Volts | RPM | |
| Hertz | | |
| Phase | | |
| FLA | Blower Rotation Correct | |
| HP | Incorrect | |
| Blower Pulley | | |
| Motor Pulley | | |
| Belt Number | | |

^{**}If measured amps exceed the FLA rating on the nameplate, fan RPM must be reduced to decrease the measured amps below the nameplate FLA rating.

Maintenance Record

| Date | Service Performed |
|------|-------------------|
| | |
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