

#### **Power Roof Ventilator**

## Installation, Operation, and Maintenance Manual



**Up-blast Centrifugal Utility Fan** 



**Up-blast Centrifugal Fan** 



**Down-blast Centrifugal Fan** 



**Axial 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**

WARRANTY	4
INSTALLATION	5
Mechanical	5
Site Preparation	
Roof Mounting	
Wall Mounting	6
Curb and Ductwork	
Up-Blast Roof Mount Installation	7
Up-Blast Roof Mount Utility Installation	7
Up-Blast Wall Mount Installation	
Up-Blast Through Wall Mount Installation	8
Down-Blast Installation	
Up-Blast Utility Set Hinging Instructions	9
Typical Hinge Kit – Centrifugal Upblast	. 10
Typical Grease Box Installation	
Up-Blast Utility Set Rain Cap Option	. 11
Up-Blast Utility Set Extension Option	
Electrical	
Copper Wire Ampacity	
PSC (Permanent Split Capacitor) Motor Speed Control	. 13
ECM (Electronically Controlled Motor) Speed Control	. 13
Motorized Damper	. 13
Fan to Building Wiring Connection	. 14
OPERATION	. 15
Start Up	
Special Tools Required	
Start Up Procedure	
Pulley Setscrew Torque	
Pulley Alignment	. 16
Proper Belt Tension	. 16
Pulley Combination Chart	
Troubleshooting	
Troubleshooting Chart	
MAINTENANCE	
General Maintenance	
Bearing Grease Charge	
Bearing Grease Type	
2 weeks after startup	
Every 3 months	
Yearly	. 20
Start-Up and Maintenance Documentation	. 21
Job Information	. 21
Fan Unit Information	
Maintenance Record	
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 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. The fan discharge must be located at least 10 feet away from any supply intakes. The fan discharge shall be located in accordance with the applicable building code provisions.

### **Roof Mounting**

- 1. Ventilators are designed for installation atop a prefabricated or factory built roof curb. Follow manufacturer's instructions for proper curb installation.
- 2. If a backdraft damper is required, it should be secured within the curb using sheet metal screws, to the bottom of a damper box or damper support flanges located below the roof deck. CAUTION: NFPA-96 RECOMMENDS THAT DAMPERS SHOULD NOT BE INSTALLED WHEN EXHAUSTER IS USED FOR REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL KITCHEN EQUIPMENT. CONSULT STATE AND LOCAL CODES FOR DETAILED REQUIREMENTS.
- 3. If an up-blast fan is used for kitchen hood exhaust, ensure discharge is at least 40 inches above the roof surface in accordance with NFPA96.
- 4. On an up-blast fan, normally the power cord is brought through the conduit tube located on the top skirt on the outside of the unit.
- 5. Secure ventilator 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).
- 6. Before connecting fan motor to power source verify power line wiring is de-energized.
- Connect power supply wiring to the motor as indicated on the motor nameplate or terminal box cover. Make certain that the power source is compatible with the requirements of your equipment.
- 8. Before powering up fan check ventilator wheel for free rotation.
- 9. Check all fasteners for tightness.
- 10. Re-install motor dome.
- 11. A drain pipe is provided for single-point drainage of water and residue on up-blast fans. The drain pipe should be positioned towards the roof slope. Some means for collection of this residue must be provided, either a container directly under the trough or use of an adapter and pipe to carry the residue to a remote collection point. An optional down spout and grease collection box is available as an accessory item for up-blast fans.

### **Wall Mounting**

- 1. The same instructions, warnings and notes found under Roof Mounting section will apply. Refer to steps 2 and 3, and steps 5 through 8.
- 2. **Masonry Wall:** Around the wall opening install an angle iron frame at least 2" x2" x ½". Frame should be approximately 1/2" smaller than the inside base dimension of the ventilator. Secure the lead cinch type anchors with non-ferrous bolts (3 per side). The ventilator should be mounted to the mounting angle with self-taping sheet metal screws (3 per side).
- 3. **Wood Sidings:** Around the wall opening install a wooden frame 2" high x 2" wide. Frame should be approximately 1/2" smaller than the inside base dimension of the ventilator. Secure with counter-sunk expansion type lag bolts (3 per side). The ventilator should then be mounted to the mounting frame with the square head wood screws (3 per side) 3/8" minimum.
- 4. Steel wall mount brackets are also available as a factory option for the fan.
- 5. The mounting flange connections should be coated with a suitable caulking compound or an approved waterproof mastic sealer.
- 6. Wall mount application is not recommended from fans with wheels 30" or larger.

IMPORTANT: OSHA REGULATIONS REQUIRE THE VENTILATOR TO BE MOUNTED AT LEAST EIGHT (8) FEET ABOVE GROUND OR FLOOR LEVEL.

#### **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.

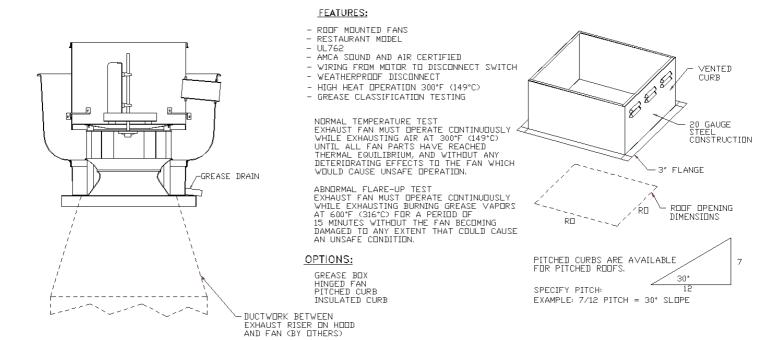
Also, transitions and turns in ductwork near the fan inlet will cause system effect and will drastically increase the static pressure and reduce airflow. Follow SMACNA guides and recommendations for the remaining duct run. Fans designed for rooftop installation should be installed on a prefabricated or factory built roof curb. Follow curb manufacturer's instructions for proper curb installation. Curbs should be connected to structural roof members with at least four (3) lug screws, anchor bolts, or other suitable fasteners (not furnished) per curb flange. Curb flanges should be caulked to roof.



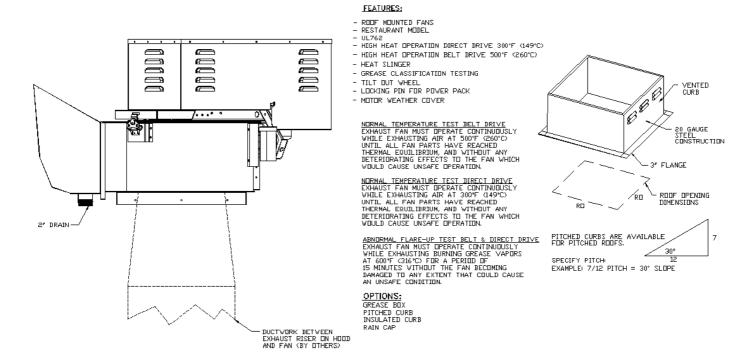
The fan should be installed on a curb and/or

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.

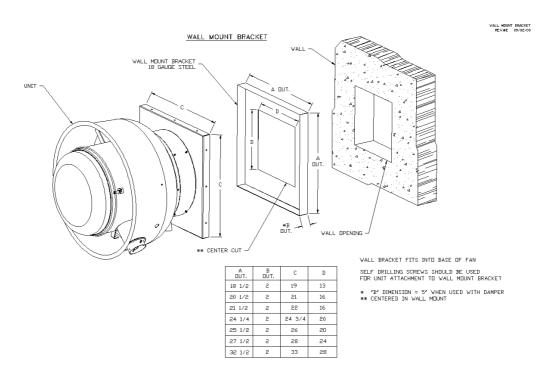
#### **Up-Blast Roof Mount Installation**



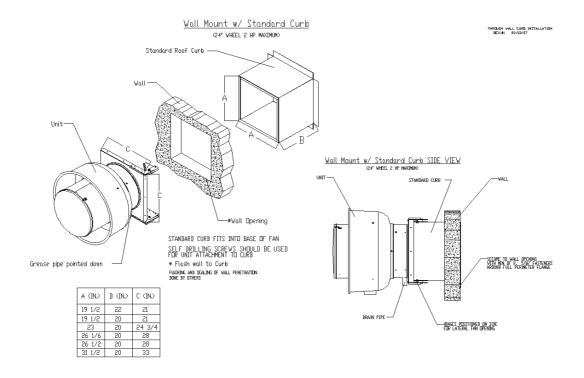
## **Up-Blast Roof Mount Utility Installation**



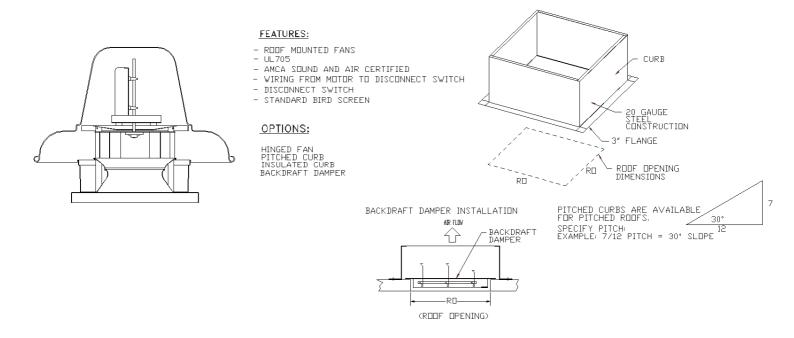
## **Up-Blast Wall Mount Installation**



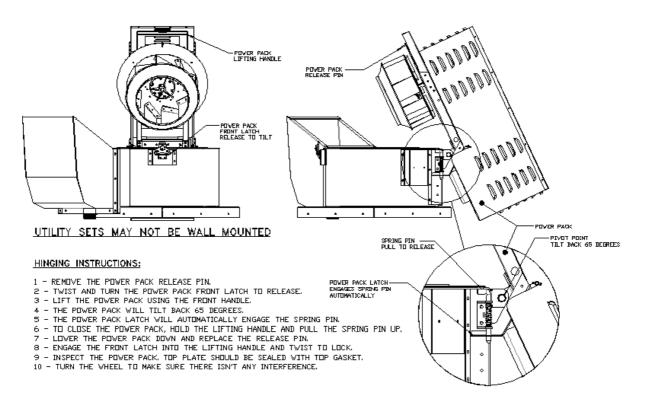
## **Up-Blast Through Wall Mount Installation**



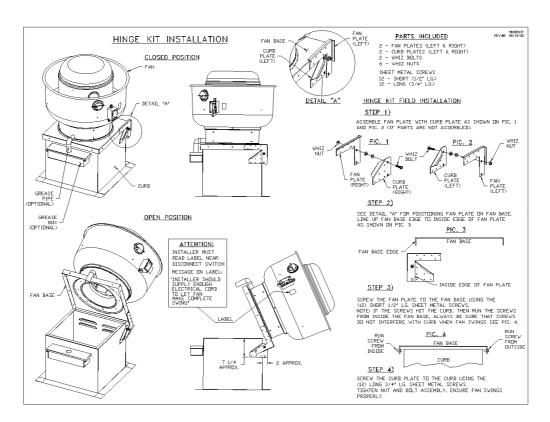
#### **Down-Blast Installation**



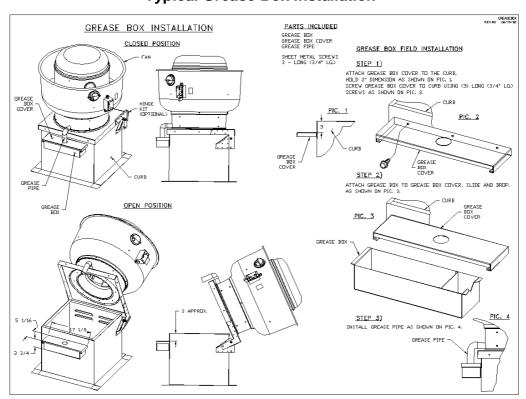
## **Up-Blast Utility Set Hinging Instructions**



## Typical Hinge Kit - Centrifugal Upblast

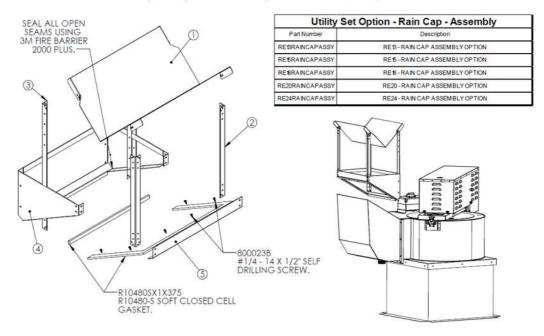


## **Typical Grease Box Installation**



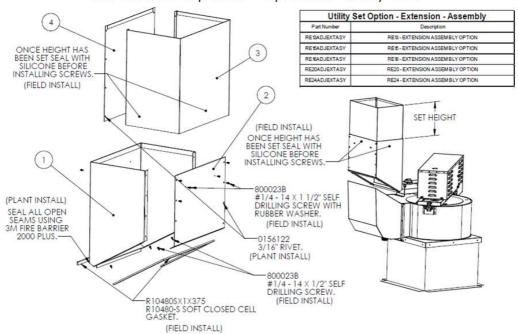
## **Up-Blast Utility Set Rain Cap Option**

## Rain Cap Option - Up Blast Utility Set



## **Up-Blast Utility Set Extension Option**

## Extension Option - Up Blast Utility Set



#### **Electrical**

Before connecting power to the fan, read and understand this entire section of this document. As-built wiring diagrams are available with each fan by the factory.

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.
- A disconnect switch is shipped with every fan. The switch is located on the exterior of up-blast fans and in the interior of down-blast fans. On down-blast direct drive fans, the disconnect function is built into the speed controller.

#### **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	20
12	25
10	30
8	40
6	55
4	70

- 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".
- 4. Make certain that the power source is compatible with the requirements of your 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 TW wire or equivalent.

IMPORTANT: FANS WITH HINGE KITS REQUIRE ENOUGH SLACK IN THE WIRING TO THE FAN TO ALLOW FAN TO TILT BACK TO THE OPEN POSITION. ELECTRICIAN MUST CHECK THIS AND ACCOUNT FOR THE RANGE OF MOTION OF THE FAN.

## **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.



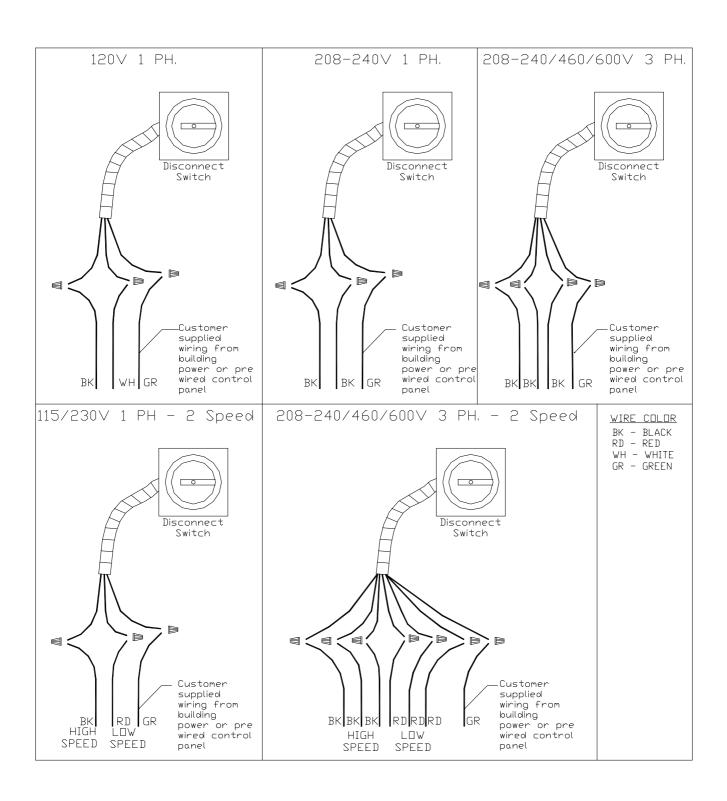
The ECM control requires a 24 VAC input and can locally turn the motor on and off. The motor can be adjusted between 300 RPM and maximum speed with this control.

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

#### **Motorized Damper**

On units shipped with the optional motorized damper, power must be supplied to the damper according to the damper nameplate. The damper motor is controlled external to the fan. External wiring to the damper motor is required.

## **Fan to Building Wiring Connection**



## **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

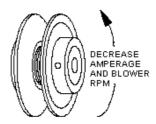
### **Start Up Procedure**

- 1. Check all electrical connections for tightness and continuity.
- 2. Check pulley alignment and belt tension as described below for belt drive fans.
- 3. Inspect the condition of the damper and damper linkage, if provided.
- 4. Inspect the air-stream for obstructions or debris in wheel.
- 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. If the fan is a direct drive version, it may have a speed control to adjust speed.
- 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.

#### **Pulley Setscrew Torque**

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

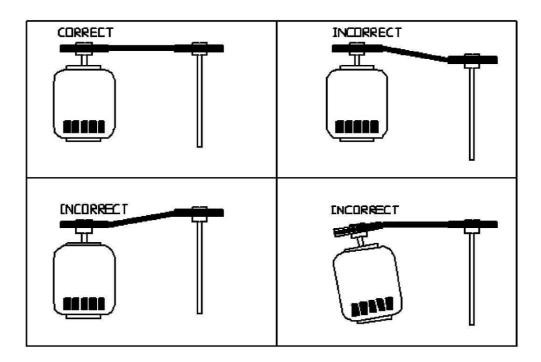
#### **Pulley Adjustment Illustration**



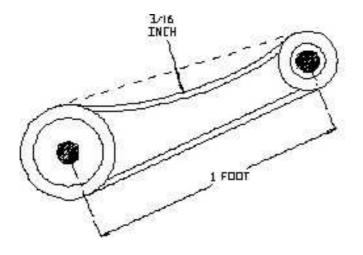
#### **Pulley Adjustment (Belt Drive Fans)**

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 Alignment**



**Proper Belt Tension** 



## **Pulley Combination Chart**

Motor RPM		1725													
1/3 to 1-1/2 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
AX BELTS		1VL34	1.9	2.9	2	3									
			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	11	11.2	308	323	339	354	370	385	400	416	431	447	462		
1/3 to 1-1/2 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
AX BELTS		1VL40	2.4	3.4	2.6	3.6									
			Open				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	400	416	431	447	462	477	493	508	524	539	554		
AK94	9	9.2	488	506	525	544	563	581	600	619	638	656	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 AK46	5 4.2	5.2 4.4	863 1019	896 1059	929 1098	962 1137	995 1176	1028 1215	1062 1255	1095 1294	1128 1333	1161 1372	1194 1411		
AK39	3.5	3.7	1212	1259	1305	1352	1399	1445	1492	1539	1585	1632	1678		
AK32	3	3.2	1402	1455	1509	1563	1617	1671	1725	1779	1833	1887	1941		
	•	•	•	•					•						
2 to 5 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
BX BELTS		2VP42	2.9	3.9	3	4									
			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	15.4	15.7	330	339	348	357	366	375	385	394	403	412	421	430	439
2BK140H 2BK120H	13.4 11.4	13.7 11.7	378 442	388 455	399 467	409 479	420 491	430 504	441 516	451 528	462 541	472 553	483 565	493 577	504 590
2BK120H	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
2BK80H	7.4	7.7	672	691	709	728	747	765	784	803	821	840	859	877	896
2BK70H	6.4	6.7	772	794	815	837	858	880	901	923	944	965	987	1008	1030
2BK60H	5.4	5.7	908	933	958	984	1009	1034	1059	1084	1110	1135	1160	1185	1211
2BK55H 2BK50H	4.9 4.4	5.2 4.7	995 1101	1023 1132	1050 1162	1078 1193	1106 1223	1133 1254	1161 1285	1189 1315	1216 1346	1244 1376	1272 1407	1299 1438	1327 1468
ZBRJOTT	7.7	4.7	1101	1132	1102	1193	1223	1237	1203	1313	1340	1370	1407	1430	1400
7-1/2 to 10 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
BX BELTS		2VP60	4.3	5.5	4.7	5.9									
			Open					TURNS	ON MOTOR	PULLEY					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	15.4	15.7	516	527	538	549	560	571	582	593	604	615	626	637	648
2BK140H	13.4	13.7	592	604	617	630	642	655	667	680	693	705	718	730	743
2BK120H	11.4	11.7	693	708	722	737	752	767	781	796	811	826	840	855	870
2BK110H 2BK100H	10.4 9.4	10.7 9.7	758 836	774 854	790 871	806 889	822 907	838 925	854 943	871 960	887 978	903 996	919 1014	935 1031	951 1049
2BK90H	8.4	8.7	932	952	972	991	1011	1031	1051	1071	1091	1110	1130	1150	1170
													1277		1322
2BK80H	7.4	7.7	1053	1075	1098	1120	1143	1165	1187	1210	1232	1255	12//	1299	1322
2BK80H	7.4	7.7	1053	1075	1098	1120	1143	1165	1187	1210	1232	1255	12//	1299	1322
3 to 5 HP	7.4	MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2	1143	1165	1187	1210	1232	1255	12//	1299	1322
	7.4	•	Dd1 2.9				1143				1232	1255	12//	1299	
3 to 5 HP BX BELTS		MOTOR PULLEY 2VP42	Dd1 2.9 Open	Dd2 3.9	Pd1 3	Pd2 4		TURNS	ON MOTOR	PULLEY					Closed
3 to 5 HP BX BELTS BLOWER PULLEY	DATUM DIAMETER	MOTOR PULLEY 2VP42 PITCH DIAMETER	Dd1 2.9 Open 6	Dd2 3.9 5 1/2	Pd1 3	Pd2 4	4	TURNS 3 1/2	ON MOTOR	PULLEY 2 1/2	2	1 1/2	1	1/2	Closed 0
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278	DATUM DIAMETER 27.8	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1	Dd1 2.9 Open 6 184	Dd2 3.9 5 1/2 189	Pd1 3 5 194	Pd2 4 4 1/2 200	4 205	TURNS 3 1/2 210	ON MOTOR 3 215	PULLEY 2 1/2 220	2 225	1 1/2 230	1 235	1/2 240	Closed 0 246
3 to 5 HP BX BELTS BLOWER PULLEY 285V278 285V250	DATUM DIAMETER 27.8 25	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3	Dd1 2.9 Open 6 184 205	Dd2 3.9 5 1/2 189 210	Pd1 3 5 194 216	Pd2 4 4 1/2 200 222	4 205 227	TURNS 3 1/2 210 233	ON MOTOR 3 215 239	PULLEY 2 1/2 220 244	2 225 250	1 1/2 230 256	1	1/2 240 267	Closed 0 246 273
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278	DATUM DIAMETER 27.8	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3	Dd1 2.9 Open 6 184	Dd2 3.9 5 1/2 189	Pd1 3 5 194	Pd2 4 4 1/2 200 222 237 276	4 205	TURNS 3 1/2 210	ON MOTOR 3 215	PULLEY 2 1/2 220 244 261 304	2 225	1 1/2 230	1 235 261	1/2 240	Closed 0 246
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184	DATUM DIAMETER 27.8 25 23.4 20 18.4	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7	Dd1 2.9 Open 6 184 205 218 255 277	Dd2 3.9 5 1/2 189 210 224 262 284	Pd1 3 5 194 216 230 269 292	Pd2 4 4 1/2 200 222 237 276 300	4 205 227 243 283 307	TURNS 3 1/2 210 233 249 290 315	ON MOTOR  3 215 239 255 297 323	PULLEY 2 1/2 220 244 261 304 331	2 225 250 267 312 338	1 1/2 230 256 273 319 346	1 235 261 279 326 354	1/2 240 267 285 333 361	Closed 0 246 273 291 340 369
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160	27.8 25 25 23.4 20 18.4 16	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3	Dd1 2.9 Open 6 184 205 218 255 277 317	Dd2 3.9 5 1/2 189 210 224 262 284 326	Pd1 3 5 194 216 230 269 292 335	Pd2 4 4 1/2 200 222 237 276 300 344	4 205 227 243 283 307 353	TURNS 3 1/2 210 233 249 290 315 362	ON MOTOR  3 215 239 255 297 323 370	PULLEY 2 1/2 220 244 261 304 331 379	2 225 250 267 312 338 388	1 1/2 230 256 273 319 346 397	1 235 261 279 326 354 406	1/2 240 267 285 333 361 414	Closed 0 246 273 291 340 369 423
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V160	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7	Dd1 2.9 Open 6 184 205 218 255 277 317 330	Dd2 3.9 5 1/2 189 210 224 224 262 284 326 339	Pd1 3 5 194 216 230 269 292 335 348	Pd2 4 4 1/2 200 222 237 276 300 344 357	4 205 227 243 283 307 353 366	TURNS 3 1/2 210 233 249 290 315 362 375	ON MOTOR  3 215 239 255 297 323 370 385	PULLEY 2 1/2 220 244 261 304 331 379 394	2 225 250 267 312 338 388 403	1 1/2 230 256 273 319 346 397 412	1 235 261 279 326 354 406 421	1/2 240 267 285 333 361 414 430	Closed 0 246 273 291 340 369 423 439
3 to 5 HP BX BELTS BLOWER PULLEY 285V278 285V278 285V234 285V200 285V184 285V160 285V164 285V154 285V136	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9	Dd1 2.9 Open 6 184 205 218 255 277 330 401	Dd2 3.9 5 1/2 189 210 224 262 284 326 339 412	Pd1 3 5 194 216 230 269 292 335 348 423	Pd2 4 4 1/2 200 222 237 276 300 344 357 435	4 205 227 243 283 307 353 366 446	TURNS 3 1/2 210 233 249 290 315 362 375 457	ON MOTOR 3 215 239 255 297 323 370 385 468	PULLEY 2 1/2 220 244 261 304 331 379 394 479	2 225 250 267 312 338 388 403 490	1 1/2 230 256 273 319 346 397 412 501	1 235 261 279 326 354 406 421 513	1/2 240 267 285 333 361 414 430 524	Closed 0 246 273 291 340 369 423 439 535
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V154	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407	Dd2 3.9 5 1/2 189 210 224 262 284 326 326 339 412	Pd1 3 5 194 216 230 269 292 335 348 423 430	Pd2 4 4 1/2 200 222 237 276 300 344 357 435	4 205 227 243 283 307 353 366 446 453	TURNS 3 1/2 210 233 249 290 315 362 375 457	ON MOTOR 3 215 239 255 297 323 370 385 468 475	PULLEY 2 1/2 220 244 261 304 331 379 394 479 487	2 225 250 267 312 338 388 403	1 1/2 230 256 273 319 346 397 412 501 509	1 235 261 279 326 354 406 421 513 521	1/2 240 267 285 333 361 414 430 524 532	Closed 0 246 273 291 340 369 423 439 535 543
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V230 2B5V184 2B5V160 2B5V164 2B5V136	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9	Dd1 2.9 Open 6 184 205 218 255 277 330 401	Dd2 3.9 5 1/2 189 210 224 262 284 326 339 412	Pd1 3 5 194 216 230 269 292 335 348 423	Pd2 4 4 1/2 200 222 237 276 300 344 357 435	4 205 227 243 283 307 353 366 446	TURNS 3 1/2 210 233 249 290 315 362 375 457	ON MOTOR 3 215 239 255 297 323 370 385 468	PULLEY 2 1/2 220 244 261 304 331 379 394 479	2 225 250 267 312 338 403 490 498	1 1/2 230 256 273 319 346 397 412 501	1 235 261 279 326 354 406 421 513	1/2 240 267 285 333 361 414 430 524	Closed 0 246 273 291 340 369 423 439 535
3 to 5 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V1160 2B5V154 2B5V1160 2B5V154 2B5V110	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458	Dd2 3.9 5 1/2 189 210 224 262 284 326 339 412 419 471	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 Pd1	Pd2 4 4 1/2 200 222 237 276 300 344 357 435 441 496	4 205 227 243 283 307 353 366 446 453	TURNS 3 1/2 210 233 249 290 315 362 375 457	ON MOTOR 3 215 239 255 297 323 370 385 468 475	PULLEY 2 1/2 220 244 261 304 331 379 394 479 487	2 225 250 267 312 338 403 490 498	1 1/2 230 256 273 319 346 397 412 501 509	1 235 261 279 326 354 406 421 513 521	1/2 240 267 285 333 361 414 430 524 532	Closed 0 246 273 291 340 369 423 439 535 543
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V160 2B5V160 2B5V174 2B5V174	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4	MOTOR PULLEY 2VP42  PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458	Dd2 3.9 5 1/2 189 210 224 262 284 339 412 419 471	Pd1 3 5 194 216 230 269 292 335 348 423 430 483	Pd2 4 4 1/2 200 222 237 276 300 344 357 435 441 496	4 205 227 243 283 307 353 366 446 453	TURNS 3 1/2 210 233 249 290 3162 375 457 464 522	ON MOTOR 3 215 239 255 297 370 385 468 475 534	PULLEY 2 1/2 220 244 261 304 337 394 479 487 547	2 225 250 267 312 338 403 490 498	1 1/2 230 256 273 319 346 397 412 501 509	1 235 261 279 326 354 406 421 513 521	1/2 240 267 285 333 361 414 430 524 532	Closed 0 246 273 291 340 423 439 535 543 611
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11	MOTOR PULLEY 2VP42  PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3  MOTOR PULLEY 2VP60	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open	Dd2 3.9 5 1/2 189 210 224 262 284 326 339 412 419 471	Pd1 3 5 194 216 230 269 292 293 335 348 423 430 483	Pd2 4 4 1/2 200 222 237 276 300 344 357 435 441 496	4 205 227 243 283 307 353 366 446 453 509	TURNS 3 1/2 210 233 249 290 315 362 375 457 464 522	ON MOTOR  3 215 239 255 297 323 370 385 468 475 534  ON MOTOR	PULLEY 2 1/2 2 2/2 2 44 2 61 3 04 3 31 3 79 4 87 5 47	2 225 250 267 312 338 403 490 498 560	1 1/2 230 256 273 319 346 397 412 501 509 572	1 235 261 279 326 354 406 421 533 521 585	1/2 240 267 285 333 361 414 430 524 532 598	Closed 0 246 273 291 340 369 423 439 535 543 611  Closed
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V184 2B5V160 2B5V162 2B5V136 2B5V124 2B5V136 2B5V124 2B5V136 3B5V124 2B5V136 2B5V125 BLOWER PULLEY	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11	MOTOR PULLEY 2VP42  PITCH 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	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6	Dd2 3,9 5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7	Pd2 4 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5.9	4 205 227 243 283 307 353 366 446 453 509	TURNS 3 1/2 213 249 290 315 362 375 457 464 522  TURNS 3 1/2	ON MOTOR  3 21 239 255 239 255 370 370 383 468 475 534  ON MOTOR 3	PULLEY 2 1/2 220 244 261 303 379 394 479 487 547	2 225 250 267 312 338 388 403 490 498 560	1 1/2 230 256 273 319 346 397 412 501 509 572	1 235 261 279 326 354 406 421 513 521 585	1/2 240 267 285 333 361 414 430 524 532 598	Closed 0 246 273 340 369 423 439 535 611  Closed 0
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V154 2B5V160 2B5V154 2B5V170 7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11	MOTOR PULLEY 2VP42  PITCH 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	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289	Dd2 3,9 5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5	Pd1 3 5 194 216 230 269 292 3348 423 430 483 447 5 301	Pd2 4 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5,9	4 205 227 243 283 307 353 366 446 453 509	TURNS 3 1/2 210 233 249 249 315 362 375 457 464 522 TURNS 3 1/2 3 1/2	ON MOTOR 3 215 239 255 297 323 370 3785 468 475 534 ON MOTOR 3 325	PULLEY 2 1/2 2 1/2 2 2/4 2 61 3 04 3 31 3 79 4 79 4 87 5 47  PULLEY 2 1/2 3 31	2 225 250 267 312 338 388 403 499 498 560	1 1/2 230 256 273 319 346 397 412 501 509 572	1 235 261 279 354 406 421 513 521 585	1/2 240 267 285 333 361 414 430 532 598	Closed  0 246 273 291 340 369 423 439 535 543 611  Closed  0 362
BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V278	DATUM DIAMETER  27.8  25  23.4  20  18.4  16  15.4  12.6  12.4  11  DATUM DIAMETER  27.8  25	MOTOR PULLEY 2VP42  PITCH 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	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320	Dd2 3.9  5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334	Pd2 4 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5,9	4 205 227 243 283 307 353 366 446 453 509	TURNS 3 1/2 210 233 249 315 362 375 457 464 522  TURNS 3 1/2 3 1/9 3 355	ON MOTOR 3 215 239 255 297 323 370 385 468 475 534  ON MOTOR 3 325 361	PULLEY 2 1/2 2 2/0 2 444 2 61 3 04 3 31 3 39 4 47 487 5 47  PULLEY 2 1/2 3 1/3 3 68	2 225 250 267 312 338 388 403 490 498 560	1 1/2 230 256 273 319 346 397 412 501 509 572	1 235 261 279 326 354 406 421 513 521 585	1/2 240 267 285 333 361 414 430 524 532 598	Closed 0 246 273 291 340 369 423 439 535 543 611  Closed 0 0 3 0 2 402
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V154 2B5V160 2B5V154 2B5V170 7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11	MOTOR PULLEY 2VP42  PITCH 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	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289	Dd2 3,9 5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5	Pd1 3 5 194 216 230 269 292 3348 423 430 483 447 5 301	Pd2 4 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5,9	4 205 227 243 283 307 353 366 446 453 509	TURNS 3 1/2 210 233 249 249 315 362 375 457 464 522 TURNS 3 1/2 3 1/2	ON MOTOR 3 215 239 255 297 323 370 3785 468 475 534 ON MOTOR 3 325	PULLEY 2 1/2 2 1/2 2 2/4 2 61 3 04 3 31 3 79 4 79 4 87 5 47  PULLEY 2 1/2 3 31	2 225 250 267 312 338 388 403 499 498 560	1 1/2 230 256 273 319 346 397 412 501 509 572	1 235 261 279 354 406 421 513 521 585	1/2 240 267 285 333 361 414 430 532 598	Closed  0 246 273 291 340 369 423 439 535 543 611  Closed  0 362
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V184 2B5V160 2B5V154 2B5V154 2B5V116 7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V234	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11  DATUM DIAMETER 27.8 25 23.4	MOTOR PULLEY 2VP42  PITCH 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	Dd1 2.9 Open 6 184 205 218 255 277 330 401 407 458  Dd1 4.3 Open 6 289 320 342	Dd2 3.9 5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7	Pd2 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5,9 4 1/2 307 341 364	4 205 227 243 307 353 366 446 453 509	TURNS 3 1/2 210 233 249 315 362 375 457 464 522  TURNS 3 1/2 319 355 378	ON MOTOR  3 215 239 255 297 323 370 385 468 475 534  ON MOTOR 3 325 361 386	PULLEY 2 1/2 220 244 261 304 331 379 394 479 487 547  PULLEY 2 1/2 331 368 393	2 225 250 267 312 338 403 490 498 560	1 1/2 230 256 273 319 346 397 412 501 509 572	1 235 261 279 326 354 406 421 513 521 585	1/2 240 267 285 333 361 414 430 524 532 598	Closed 0 246 273 291 340 423 439 535 543 611  Closed 0 362 402 429
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V154 2B5V160 2B5V154 2B5V100 7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V200 2B5V184 2B5V210	DATUM DIAMETER 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 16 11 11	MOTOR PULLEY 2VP42  PITCH 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 23.3 23.7 20.3 18.7 20.3 18.7 16.3 16.3 16.7 16.3 16.3 16.3 16.7 16.3 16.3 16.7 16.3 16.7 16.3 16.7	Dd1 2.9 Open 6 184 205 218 255 277 330 401 407 458  Dd1 4,3 Open 6 289 320 342 399 434 497	Dd2 3.9  51/2 189 210 224 262 284 326 339 412 419 471  Dd2 5.5 51/2 295 327 349 408 443 508	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519	Pd2 4 1/2 200 222 237 276 334 357 441 496 Pd2 307 341 496 41/2 307 341 425 461 529	4 205 227 243 283 366 446 453 509 4 313 348 371 433 470	TURNS 3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 355 442 480 550	ON MOTOR  3 215 239 255 297 323 370 385 468 475 534  ON MOTOR 3 325 361 469 450 489 561	PULLEY 2 1/2 2 20 2 44 2 61 3 04 3 31 3 79 3 94 4 79 4 87 5 47  PULLEY 2 1/2 3 31 3 68 3 68 3 69 4 79 4 89 5 71	2 225 250 267 312 338 403 499 498 560 2 338 375 467 507	1 1/2 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517	1 235 261 279 326 324 406 421 513 521 585 1 350 389 415 484 526 603	1/2 240 267 285 333 361 414 430 524 532 598	Closed  0 246 273 291 340 369 423 439 535 543 611  Closed 0 362 402 429 501 544
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V160 2B5V160 2B5V154 2B5V160 2B5V124 2B5V175 2B5V125 2B5V126 2B5V126 2B5V126 2B5V126 2B5V126 2B5V1278 2B5V278	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11  DATUM DIAMETER 27.8 27.8 23.4 20 18.4 16 15.4 11	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 22.7 20.3 18.7 16.3 15.7 11.3  MOTOR PULLEY 2VP60  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7	Dd1 2.9 Open 6 184 205 218 2255 277 317 317 337 401 407 458  Dd1 4.3 Open 6 289 389 349 434 497 516	Dd2 3,9  5 1/2 189 210 224 262 284 326 329 412 419 471 Dd2 5,5  5 1/2 295 349 443 508	Pd1 3 5 194 216 230 269 292 335 430 483 483 483 483 457 5 158 5 15	Pd2 4 4 1/2 200 222 237 276 300 344 435 441 496 5,9 4 1/2 307 307 347 3461 529 461 529	4 205 227 243 283 307 353 364 446 453 509 4 313 348 349 470 560	TURNS 3 1/2 210 231 249 290 315 362 362 457 464 522  TURNS 3 1/2 319 349 480 550	ON MOTOR 3 215 239 255 297 323 370 380 468 475 534  ON MOTOR 3 325 361 386 489 561	PULLEY 2 1/2 220 244 261 304 331 379 479 487 547  PULLEY 2 1/2 331 331 349 498 571	2 2255 250 267 312 338 388 490 498 560 2 338 375 400 407 507 562	1 1/2 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 408 476 517 593	1 235 261 327 326 334 406 405 405 513 521 585 1 350 380 380 415 415 415 626 603 626	1/2 240 267 285 333 361 414 430 524 532 598  1/2 356 423 535 614 637	Closed 0 246 273 349 349 423 439 535 543 611  Closed 0 362 402 429 501 544 624
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V160 2B5V154 2B5V154 2B5V156 2B5V174 2B5V175 BLOWER PULLEY 2B5V278 2B5V278 2B5V278 2B5V250 2B5V234 2B5V260 2B5V184 2B5V160 2B5V184 2B5V160 2B5V154 2B5V160 2B5V154	DATUM DIAMETER 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 16 11.4 11.6 11.6 11.6 11.6 11.6 1	MOTOR PULLEY 2VP42  PITCH 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 17.9 19.9 19.7 10.9 19.7 10.9 19.7 10.9 19.7 10.9 10.9 10.9 10.9	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 457 458  Dd1 4.3 Open 6 289 320 342 399 434 497 516 628	Dd2 3.9  5 1/2 189 210 224 262 284 326 329 412 419 471  Dd2 5.5  5 1/2 295 327 349 408 443 508 527	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 357 416 452 519 538 655 655	Pd2 4 1/2 200 222 237 276 300 344 357 435 441 496 5.9 4 1/2 307 341 364 425 461 529 549 669	4 205 227 243 283 360 446 453 509 4 4 313 348 371 433 470 540 560	3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 355 378 442 480 550 571	ON MOTOR 3 215 239 255 297 323 370 385 468 475 534  ON MOTOR 3 325 361 386 450 489 561 582 709	PULLEY 2 1/2 220 244 261 304 331 379 394 479 487 547  PULLEY 2 1/2 331 368 393 459 498 571 593	2 225 250 267 312 338 388 403 499 498 560 2 2 338 375 400 467 507 582 604 735	1 1/2 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615	1 235 261 279 326 354 406 421 521 585 1 359 415 350 389 415 426 603 626 762	1/2 240 267 285 333 361 414 430 452 598  1/2 356 395 422 493 535 614 637	Closed 0 246 273 291 340 369 423 439 535 543 611  Closed 0 362 402 429 501 544 624 624 688
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V250 2B5V26 2B5V124 2B5V100 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V186	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11.4 11  DATUM DIAMETER 27.8 25 23.4 20 18.4 11 11  DATUM DIAMETER 11 11 11 11 11 11 11 11 11 11 11 11 11	MOTOR PULLEY 2VP42  PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60  PITCH DIAMETER 23.3 20.3 18.7 16.3 15.7 20.3 18.7 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	Dd1 2.9 Open 6 6 184 205 218 255 277 317 330 407 458  Dd1 4.3 Open 6 289 320 342 349 434 434 434 434 6628	Dd2 3.9 189 210 224 262 284 326 339 419 471 Dd2 5.5 5 1/2 295 327 349 448 453 5527 642	Pd1 3 5 194 216 230 269 292 335 348 430 483 Pd1 4,7 5 301 334 357 416 452 519 538 655	Pd2 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5,9 307 341 364 425 461 529 549 669	4 205 227 243 283 307 366 446 453 509 4 4 313 348 371 470 540 560 682	TURNS 3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 355 378 442 480 550 571 695 706	ON MOTOR  3 215 239 255 297 323 370 385 465 475 534  ON MOTOR 3 325 361 386 450 489 561 582 709	PULLEY 2 1/2 2 20 2 44 2 61 3 04 3 31 3 79 3 94 4 79 4 87 5 47  PULLEY 2 1/2 3 1/3 3 68 3 93 4 59 4 98 5 71 5 93 7 22 7 33	2 2255 250 312 338 403 499 560 2 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	1 1/2 230 256 273 319 346 349 412 501 509 572 1 1/2 344 408 476 517 593 615 749 761	1 235 261 279 326 354 406 421 513 521 585 1 350 389 415 526 603 626 762 774	1/2 240 267 285 333 361 414 430 532 598  1/2 356 395 422 493 535 614 637 776	Closed  0 246 273 291 340 369 423 439 535 543 611  Closed 0 0 362 402 429 450 501 544 648 789 801
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V160 2B5V154 2B5V160 2B5V154 2B5V160 2B5V154 2B5V175 2B5V175 2B5V175 2B5V175 BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V24 2B5V184 2B5V160 2B5V154 2B5V160 2B5V154 2B5V160 2B5V154 2B5V154	DATUM DIAMETER 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 16 11.4 11.6 11.6 11.6 11.6 11.6 1	MOTOR PULLEY 2VP42  PITCH 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 17.9 19.9 19.7 10.9 19.7 10.9 19.7 10.9 19.7 10.9 10.9 10.9 10.9	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 457 458  Dd1 4.3 Open 6 289 320 342 399 434 497 516 628	Dd2 3.9  5 1/2 189 210 224 262 284 326 329 412 419 471  Dd2 5.5  5 1/2 295 327 349 408 443 508 527	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 357 416 452 519 538 655 655	Pd2 4 1/2 200 222 237 276 300 344 357 435 441 496 5.9 4 1/2 307 341 364 425 461 529 549 669	4 205 227 243 283 360 446 453 509 4 4 313 348 371 433 470 540 560	3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 355 378 442 480 550 571	ON MOTOR 3 215 239 255 297 323 370 385 468 475 534  ON MOTOR 3 325 361 386 450 489 561 582 709	PULLEY 2 1/2 220 244 261 304 331 379 394 479 487 547  PULLEY 2 1/2 331 368 393 459 498 571 593	2 225 250 267 312 338 388 403 499 498 560 2 2 338 375 400 467 507 582 604 735	1 1/2 230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615	1 235 261 279 326 354 406 421 521 585 1 359 415 350 389 415 426 603 626 762	1/2 240 267 285 333 361 414 430 452 598  1/2 356 395 422 493 535 614 637	Closed 0 246 273 291 340 369 423 439 535 543 611  Closed 0 362 402 429 501 544 624 624 688
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V250 2B5V250 2B5V24 2B5V184 2B5V180 2B5V184 2B5V250 2B5V250 2B5V250 2B5V250 2B5V250 2B5V184 2B5V160 2B5V154 2B5V156	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11.4 11  DATUM DIAMETER 27.8 25 23.4 20 18.4 11 11  DATUM DIAMETER 11 11 11 11 11 11 11 11 11 11 11 11 11	MOTOR PULLEY 2VP42  PITCH DIAMETER 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60  PITCH DIAMETER 23.3 20.3 18.7 16.3 15.7 20.3 18.7 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	Dd1 2.9 Open 6 6 184 205 218 255 277 317 330 407 458  Dd1 4.3 Open 6 289 320 342 349 434 434 434 434 6628	Dd2 3.9 189 210 224 262 284 326 339 419 471 Dd2 5.5 5 1/2 295 327 349 448 453 5527 642	Pd1 3 5 194 216 230 269 292 335 348 430 483 Pd1 4,7 5 301 334 357 416 452 519 538 655	Pd2 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5,9 307 341 364 425 461 529 549 669	4 205 227 243 283 307 366 446 453 509 4 4 313 348 371 470 540 560 682	TURNS 3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 355 378 442 480 550 571 695 706	ON MOTOR  3 215 239 255 297 323 370 385 465 475 534  ON MOTOR 3 325 361 386 450 489 561 582 709	PULLEY 2 1/2 2 20 2 44 2 61 3 04 3 31 3 79 3 94 4 79 4 87 5 47  PULLEY 2 1/2 3 1/3 3 68 3 93 4 59 4 98 5 71 5 93 7 22 7 33	2 2255 250 312 338 403 499 560 2 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	1 1/2 230 256 273 319 346 349 412 501 509 572 1 1/2 344 408 476 517 593 615 749 761	1 235 261 279 326 354 406 421 513 521 585 1 350 389 415 526 603 626 762 774	1/2 240 267 285 333 361 414 430 532 598  1/2 356 395 422 493 535 614 637 776	Closed 0 246 273 291 340 369 423 439 535 543 611  Closed 0 0 362 402 429 450 501 544 648 789 801
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V110  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V210 2B5V184 2B5V110	DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11.4 11  DATUM DIAMETER 27.8 25 23.4 20 18.4 11 11  DATUM DIAMETER 11 11 11 11 11 11 11 11 11 11 11 11 11	MOTOR PULLEY 2VP42  PITCH DIAMETER 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 16.3 15.7 12.9 12.7 11.3 15.7 12.9 12.7 11.3 15.7 12.9 12.7 11.3 16.3 16.7 16.3 16.7 16.3 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458  Dd1 4.3 Open 6 289 320 342 399 434 497 516 628 638 717	Dd2 3.9  51/2 189 210 224 262 284 326 339 412 419 471  Dd2 5.5  51/2 295 327 349 408 443 568 57 672 652	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 45 5 5 19 416 47 47 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	Pd2 4 4 1/2 200 222 237 276 334 357 441 496 Pd2 307 344 496 415 496 417 307 341 496 417 307 341 425 461 425 461 476 476 476 476 476 476 476 476 476 476	4 205 227 243 283 307 366 446 453 509 4 4 313 348 371 470 540 560 682	TURNS 3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 355 378 442 480 550 571 6794	ON MOTOR  3 215 239 255 297 323 370 385 485 475 534  ON MOTOR 3 325 361 386 450 489 561 582 720 809	PULLEY 2 1/2 220 244 261 304 331 379 394 487 547  PULLEY 2 1/2 331 368 393 459 459 571 593 733 824	2 2255 250 312 338 403 499 560 2 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	1 1/2 230 256 273 319 346 349 412 501 509 572 1 1/2 344 408 476 517 593 615 749 761	1 235 261 279 326 354 406 421 513 521 585 1 350 389 415 526 603 626 762 774	1/2 240 267 285 333 361 414 430 532 598  1/2 356 395 422 493 535 614 637 776	Closed 0 246 273 291 340 369 423 439 535 543 611  Closed 0 0 362 402 429 450 501 544 648 789 801
3 to 5 HP BX BELTS  BLOWER PULLEY 285V278 2B5V250 2B5V234 2B5V234 2B5V160 2B5V161 2B5V154 2B5V162 2B5V124 2B5V175 BLOWER PULLEY 2B5V278 2B5V27	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	MOTOR PULLEY 2VP42  PITCH 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 11.3  MOTOR PULLEY 2VP60	Dd1 2.9 Open 6 184 205 218 225 237 317 330 401 407 458  Dd1 4.3 Open 6 289 349 491 497 516 628 638 717	Dd2 3,9  5 1/2 189 210 224 262 284 326 329 412 419 471  Dd2 5,5  5 1/2 295 349 443 508 508 508 508 508 508 508 508 508 508	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 457 416 452 519 519 656 656 748 Pd1	Pd2 4 4 1/2 200 222 237 276 300 344 355 441 496 497 497 497 497 497 497 497 497 497 497	4 205 227 243 283 307 366 446 453 509 4 4 313 348 371 470 540 560 682	TURNS 3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 355 378 442 480 550 571 6794	ON MOTOR  3 215 239 255 297 323 370 385 465 475 534  ON MOTOR 3 325 361 386 450 489 561 582 709	PULLEY 2 1/2 220 244 261 304 331 379 394 487 547  PULLEY 2 1/2 331 368 393 459 459 571 593 733 824	2 2255 250 312 338 403 499 560 2 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	1 1/2 230 256 273 319 346 349 412 509 572 1 1/2 344 408 476 517 593 615 749 761	1 235 261 279 326 354 406 421 513 521 585 1 350 389 415 526 603 626 762 774	1/2 240 267 285 333 361 414 430 532 598  1/2 356 395 422 493 535 614 637 776	Closed 0 246 273 291 340 369 423 439 535 543 611  Closed 0 0 362 402 429 450 501 544 648 789 801
3 to 5 HP BX BELTS  BLOWER PULLEY 285V278 285V250 285V234 285V200 285V184 285V160 285V154 285V156 285V124 285V126 285V1278 BLOWER PULLEY 285V278 285V278 285V284 285V160 285V160 285V164 285V165 285V160 285V164 285V160 285V164 285V160 285V164 285V165 285V164 285V160 285V164 285V165 285V164 285V165 285V165 285V165 285V166 285V1	DATUM DIAMETER  27.8  25.4  20  18.4  16.  15.4  12.6  12.4  11  DATUM DIAMETER  27.8  20.  18.4  10.  11.  DATUM DIAMETER  11.	MOTOR PULLEY 2VP42  PITCH 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 11.3  MOTOR PULLEY 2VP60  PITCH DIAMETER 28.1 15.7 16.3 15.7 11.3  MOTOR PULLEY 2VP75 PITCH DIAMETER 2VP75	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Open 6 289 342 399 434 497 516 628 638 717 Dd1 5.8 Open 6	Dd2 3.9  5 1/2 189 210 224 262 284 326 329 419 471 Dd2 5.5  5 1/2 295 349 408 443 508 642 652 73	Pd1 3 5 194 216 230 269 292 335 348 3423 430 483 357 416 452 519 519 666 748 741 6.2	Pd2 4 4 1/2 200 222 37 276 300 344 455 441 496 42 5.9 4 1/2 307 364 425 461 529 669 679 763 Pd2 7.4	4 205 227 223 283 383 363 364 453 509 4 313 313 371 433 470 540 682 693 779	TURNS 3 1/2 210 233 249 290 362 367 457 464 522  TURNS 3 1/2 319 378 442 480 570 670 670 794	ON MOTOR 3 215 239 259 279 370 380 489 475 346 450 489 561 386 450 809 720 809 ON MOTOR 3	PULLEY 220 244 261 304 331 379 487 547  PULLEY 2 1/2 338 393 459 459 571 572 723 824  PULLEY 2 1/2	2 225 250 267 312 338 388 409 498 560 2 2 338 490 498 560 2 497 407 407 407 407 407 407 407 407 407 40	1 1/2 230 250 273 319 349 397 412 501 509 572 1 1/2 344 476 517 593 693 693 693 693 693 693 693 693 693 6	1 235 261 326 326 326 426 421 521 585 1 359 349 448 526 603 603 603 603 603 603 603 603 603 60	1/2 240 267 285 333 361 414 430 532 598  1/2 356 422 493 535 614 676 788 885	Closed 0 246 273 340 340 423 439 423 535 543 611  Closed 0 362 402 429 501 544 624 624 624 628 789 801 901
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V110  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V214 2B5V110  15 to 20 HP BX BELTS  BLOWER PULLEY 2B5V116 2B5V124 2B5V116 2B5V124 2B5V116 2B5V278 2B5V278 2B5V278 2B5V278 2B5V278 2B5V278	DATUM DIAMETER 27.8 23.4 20 18.4 16 15.4 12.4 11  DATUM DIAMETER 27.8 25 20 18.4 16 11  DATUM DIAMETER 11  DATUM DIAMETER 12.4 11  DATUM DIAMETER 27.8	MOTOR PULLEY 2VP42  PITCH 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 25.3 23.7 20.3 18.7 16.3 15.7 11.3 20.3 18.7 16.3 15.7 11.3 20.3 20.3 20.7 20.3 20.7 20.9 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5.8 Open 6 6 381	Dd2 3.9  5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 527 642 652 733 D7  5 1/2 387	Pd1 3 5 194 216 230 269 292 335 443 430 483 430 483 55 194 16 452 519 538 666 748 Pd1 5 393 393	Pd2 4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 549 669 679 763 744 747 747 747 747 747 747 747 747 74	4 205 227 243 283 360 366 453 509 4 313 348 371 433 470 560 693 779	TURNS 3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 3 19 355 457 676 794  TURNS TURNS TURNS TURNS	ON MOTOR  3 215 239 255 297 323 370 385 475 534  ON MOTOR 3 325 361 489 480 480 480 720 809  ON MOTOR 3 417	PULLEY 220 2444 261 304 331 379 394 479 487 547  PULLEY 2 1/2 2 331 368 368 369 379 498 571 593 722 733 824  PULLEY 2 1/2 4 244	2 225 250 267 312 338 388 403 499 498 560 2 2 338 375 400 467 507 582 604 747 840	1 1/2 230 256 273 319 346 397 412 501 509 572  1 1/2 344 382 408 476 517 749 761 855	1 235 261 279 326 354 406 421 513 521 585 1 350 389 415 484 526 603 626 774 870	1/2 240 267 285 333 361 414 430 532 598  1/2 356 395 493 561 637 776 788 885	Closed  0 246 273 349 349 349 423 439 535 543 611  Closed 0 362 402 429 501 544 624 648 789 801 901  Closed 0 0 454
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V162 2B5V174 2B5V175 2B5V175 BLOWER PULLEY 2B5V278	DATUM DIAMETER  27.8  25.4  20  18.4  16  15.4  12.6  12.1  11  DATUM DIAMETER  27.8  20  18.4  11  DATUM DIAMETER  27.8  21  10  11  DATUM DIAMETER  27.8  21  21  21  22  23  24  25  25  25  26  27  28  28  29  20  20  20  20  20  20  20  20  20	MOTOR PULLEY 2VP42  PITCH 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 28.1 29.3 16.7 16.3 11.7 16.3 16.7 16.9 11.3  MOTOR PULLEY 2VP60  PITCH DIAMETER 28.1 29.1 29.1 20.3 20.3 20.3 20.7 20.3 20.7 20.9 20.7 20.9 20.9 20.9 20.9 20.9 20.9 20.9 20.9	Dd1 2.9 Open 6 184 205 218 255 217 317 317 317 317 401 407 458  Dd1 4.3 Open 6 289 349 491 491 596 628 717  Dd1 588 Open 6 638 717	Dd2 3,9  5 1/2 189 210 224 262 284 326 329 412 419 471  Dd2 5,5  5 1/2 295 349 403 403 508 77  5 1/2 387 7	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 35 147 416 452 519 519 665 665 748 Pd1 6.2 5 393 436	Pd2 4 1/2 200 222 27 276 300 344 435 441 496 496 41/2 307 41/2 307 364 41/2 307 37 364 41 364 425 461 529 669 763 Pd2 74 41/2 399 443	4 205 227 243 283 307 353 363 446 453 509 4 313 313 347 430 540 682 779	TURNS 3 1/2 210 233 249 290 315 362 362 457 464 522  TURNS 3 1/2 410 411 457	ON MOTOR 3 215 239 255 297 373 370 380 468 475 325 468 475 326 450 489 561 386 450 600 600 600 600 600 600 600 600 600 6	PULLEY 2 1/2 220 244 261 304 331 379 479 487 547  PULLEY 2 1/2 331 459 571 593 722 733 824  PULLEY 2 1/2 424 470	2 2255 250 267 312 338 388 490 498 560 2 2 338 490 498 560 560 497 498 498 498 498 498 498 498 498 498 498	1 1/2 230 256 273 319 346 397 412 501 509 572  1 1/2 344 408 476 517 593 615 749 749 1 1/2 436 4384	1 235 261 327 326 334 406 401 513 521 585 1 389 415 484 603 603 603 603 603 603 603 603 603 603	1/2 240 267 285 333 361 414 414 532 598 1/2 396 423 493 614 776 8885	Closed 0 246 273 340 369 423 439 535 543 611  Closed 0 362 402 429 501 544 624 628 789 801 901  Closed 0 454 505
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V234 2B5V154 2B5V	DATUM DIAMETER 27.8 25.4 20 18.4 16 15.4 11.4 11.1  DATUM DIAMETER 27.8 25.4 20 18.4 11.1  DATUM DIAMETER 27.8 21.4 21.1 21.4 20 21.4 21.4 20 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4	MOTOR PULLEY 2VP42  PITCH 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 16.3 15.7 17.9 17.1 17.3 16.3 16.3 16.3 16.7 16.3 16.7 16.3 15.7 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 399 434 497 516 66 68 6717 Dd1 5.8 Open 6 381 423 451	Dd2 3.9  5 1/2 189 210 224 262 284 326 329 419 471 Dd2 5.5  5 1/2 295 327 408 443 508 527 73 Dd2 7  5 1/2 459	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 35 347 416 452 519 538 666 748 Pd1 6.2 5 393 4466	Pd2 4 4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5,9 4 1/2 307 341 529 549 669 679 763 Pd2 7,4 4 1/2 399 443 473	4 205 227 243 283 383 364 453 509 4 313 348 433 470 540 560 693 779	3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 357 464 522  TURNS 3 1/2 411 457 TURNS 3 1/2 488	ON MOTOR 3 215 239 255 297 387 385 468 475 534  ON MOTOR 3 325 361 489 561 582 720 809	PULLEY 220 244 261 304 337 379 394 487 547  PULLEY 2 1/2 331 368 369 369 369 571 572 733 824  PULLEY PULLEY 2 1/2 733 824	2 225 250 267 312 338 388 403 498 560 2 2 338 375 407 567 567 567 582 6747 840	1 1/2 230 256 273 319 346 397 412 501 509 572  1 1/2 344 382 476 517 593 615 761 855	1 235 261 279 326 326 406 421 521 585 1 350 389 484 526 603 603 676 774 870	1/2 240 267 285 333 361 414 452 4532 598  1/2 356 395 497 614 677 6788 885	Closed 0 246 273 291 340 369 423 439 423 439 611  Closed 0 362 402 429 501 544 624 624 624 629 601 610 610 610 610 610 610 610 610 610
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V234 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V162 2B5V124 2B5V10  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V2194 2B5V100 2B5V184 2B5V110  15 to 20 HP BX BELTS  BLOWER PULLEY 2B5V250 2B5V214 2B5V100 2B5V184 2B5V110  15 to 20 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V2184 2B5V110	DATUM DIAMETER 27.8 25.4 20 18.4 16 15.4 11.4 11  DATUM DIAMETER 27.8 27.8 28.4 29.4 11.1 11  DATUM DIAMETER 27.8 28.4 29.4 11.4 11.5 11.4 11.5 11.4 11.5 11.4 11.5 12.4 11.5 12.4 11.5 12.4 11.5 12.4 12.4 12.4 12.4 12.4 12.4 12.4 12.4	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 11.3 MOTOR PULLEY 2VP60  PITCH DIAMETER 28.1 25.1 29.1 11.3 MOTOR PULLEY 2VP60 11.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	Dd1 2.9 Open 6 184 205 218 225 227 317 317 337 401 407 458  Dd1 4.3 Open 6 289 389 349 434 497 566 68 717  Dd1 5e8 Open 6 6 381 423 4451 527	51/2 189 210 224 262 284 326 329 412 419 471 Dd2 5.5 51/2 295 349 443 508 443 508 7 51/2 7 51/2 51/2 51/2 51/2 51/2 51/2 51/2 51/2	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 451 452 519 865 656 748 Pd1 6.2 5 3 93 436 466 544	Pd2 4 1/2 200 222 237 276 300 344 355 441 496 5.9 41/2 307 307 307 307 307 307 307 307 307 307	4 205 227 243 283 307 353 364 445 453 509 4 313 470 540 682 779	TURNS 3 1/2 210 233 249 290 315 362 362 457 464 522  TURNS 3 1/2 319 378 4480 550 570 6794  TURNS 3 1/2 4411 457 488	ON MOTOR 3 325 468 475 534  ON MOTOR 3 325 360 489 561 380 609  ON MOTOR 3 417 464 495 578	PULLEY 2 1/2 220 244 261 304 331 379 487 547  PULLEY 2 1/2 331 369 498 571 722 733 824  PULLEY 2 1/2 4 1/2 4 1/2 5	2 2255 250 267 312 338 388 3490 498 560 2 2 338 375 407 507 562 407 507 562 407 507 562 407 507 507 507 507 507 507 507 507 507 5	1 1/2 230 256 273 319 346 397 417 501 509 572  1 1/2 344 382 408 408 517 563 749 1 1/2 4484 517 663	1 235 261 327 326 335 406 401 513 521 585 1 350 380 380 415 415 426 603 603 603 603 603 603 603 603 603 60	1/2 240 267 285 333 361 4140 524 532 598 1/2 356 4493 535 6147 778 885	Closed 0 246 273 340 369 423 439 535 543 611  Closed 0 362 402 429 450 501 544 624 624 624 624 624 624 624 624 624 6
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V160 2B5V116  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V234 2B5V160 2B5V154 2B5V160 2B5V184 2B5V160 2B5V154 2B5V155 BLOWER PULLEY 2B5V278 BLOWER PULLEY 2B5V278 2B5V278	DATUM DIAMETER 27.8 25.4 20 18.4 16 15.4 11.4 11.1  DATUM DIAMETER 27.8 25.4 20 18.4 11.1  DATUM DIAMETER 27.8 21.4 21.1 21.4 20 21.4 21.4 20 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4	MOTOR PULLEY 2VP42  PITCH 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 16.3 15.7 17.9 17.1 17.3 16.3 16.3 16.3 16.7 16.3 16.7 16.3 15.7 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 399 434 497 516 66 68 6717 Dd1 5.8 Open 6 381 423 451	Dd2 3.9  5 1/2 189 210 224 262 284 326 329 419 471 Dd2 5.5  5 1/2 295 327 408 443 508 527 73 Dd2 7  5 1/2 459	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 35 347 416 452 519 538 666 748 Pd1 6.2 5 393 4466	Pd2 4 4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5,9 4 1/2 307 341 529 549 669 679 763 Pd2 7,4 4 1/2 399 443 473	4 205 227 243 283 383 364 453 509 4 313 348 433 470 540 560 693 779	3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 319 357 464 522  TURNS 3 1/2 411 457 TURNS 3 1/2 488	ON MOTOR 3 215 239 255 297 387 385 468 475 534  ON MOTOR 3 325 361 489 561 582 720 809	PULLEY 220 244 261 304 337 379 394 487 547  PULLEY 21/2 331 368 369 369 379 459 498 571 572 733 824  PULLEY 21/2 733 824	2 225 250 267 312 338 388 403 498 560 2 2 338 375 407 567 567 567 582 6747 840	1 1/2 230 256 273 319 346 397 412 501 509 572  1 1/2 344 382 476 517 593 615 761 855	1 235 261 279 326 326 406 421 521 585 1 350 389 484 526 603 603 676 774 870	1/2 240 267 285 333 361 414 452 4532 598  1/2 356 395 497 614 677 6788 885	Closed 0 246 273 291 340 369 423 439 423 439 611  Closed 0 362 402 429 501 544 624 624 624 629 601 610 610 610 610 610 610 610 610 610
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V250 2B5V184 2B5V160 2B5V154 2B5V156 2B5V124 2B5V110  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V160 2B5V154 2B5V160 2B5V154 2B5V160 2B5V154 2B5V160 2B5V154 2B5V160 2B5V154 2B5V154 2B5V160 2B5V154	DATUM DIAMETER 27.8 25 23.4 20 18.4 16.1 15.4 12.6 12.4 11  DATUM DIAMETER 27.8 25.4 20 18.4 16 15.4 2.1 11  DATUM DIAMETER 27.8 25.4 20 20 21.4 21 22 23.4 24 20 25 23.4 21 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	MOTOR PULLEY 2VP42  PITCH 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 25.3 16.3 25.7 12.9 12.7 11.3	Dd1 2.9 Open 6 184 205 218 228 227 317 330 401 407 458 Dd1 4.3 Open 6 289 320 342 399 424 491 586 628 638 717 Dd1 5.8 Open 6 628 638 717 Dd1 5.8 Open 6 628 638 717 Dd1 5.8 Open 6 6381 423	5 1/2 189 210 224 262 284 326 349 471 51/2 55/5 51/2 292 7 51/2 387 430 459 5581	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 357 416 452 55 666 748 655 666 748 655 666 748 590 466 544 590	Pd2 4 4 1/2 200 222 37 276 300 344 357 441 496 496 41/2 307 307 364 425 461 529 669 679 763 763 774 4 1/2 399 443 473 552 600	4 205 227 223 283 363 363 364 453 509 4 313 337 433 470 540 682 693 779 4 405 455 480 561	TURNS 3 1/2 239 290 290 367 367 454 454 522  TURNS 3 1/2 319 378 442 480 579 488 569 618	ON MOTOR 3 215 239 239 327 327 328 3468 475 3468 475 366 450 366 450 489 720 809 ON MOTOR 3 417 4464 495 578	PULLEY 220 244 304 337 379 487 547  PULLEY 2 1/2 338 393 459 459 573 572 733 824  PULLEY 2 1/2 424 470 502 636 636 730 758	2 225 250 312 312 318 388 499 498 560 2 2 337 400 467 507 562 437 440 440 441 441 441 441 441 441 441 441	1 1/2 230 250 273 319 346 397 451 509 572  1 1/2 348 476 517 691 855	1 235 261 279 326 326 406 421 521 585 1 389 349 448 484 526 603 603 603 603 603 762 774 870	1/2 240 267 285 333 361 414 415 532 598  1/2 356 422 493 537 788 885	Closed 0 246 273 340 349 423 439 423 439 535 543 611  Closed 0 362 402 429 501 544 624 624 624 624 624 624 624 624 624 6
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V110  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V214 2B5V10  2B5V154 2B5V110  18 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V278 2B5V214 2B5V110  15 to 20 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V214 2B5V110  15 to 20 HP BX BELTS  BLOWER PULLEY 2B5V278	DATUM DIAMETER 27.8 23.4 20 18.4 16 15.4 11.4 11  DATUM DIAMETER 27.8 23.4 20 18.4 11  DATUM DIAMETER 27.8 21.4 11  DATUM DIAMETER 27.8 28.4 20 18.4 16 15.4 11  DATUM DIAMETER 27.8 28.4 29.1 20 20 20 20 20 20 20 20 20 20 20 20 20	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 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 16.3 15.7 16.3 15.7 16.3 15.7 16.3 15.7 16.3 15.7 12.9 12.7 11.3	Dd1 2.9 Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5.8 Open 6 6 381 423 451 527 572 656	Dd2 3.9  5 1/2 189 210 224 262 284 326 339 419 471  Dd2 5.5  5 1/2 295 327 349 408 443 508 527 642 652 733  Dd7  5 1/2 387 430 439 430 439 430 535 581	Pd1 3 5 194 216 230 269 292 335 348 423 430 483 430 483 55 194 47 47 47 5 301 334 456 666 748 Pd1 590 590 590 590 590 590 590 590 590 590	Pd2 4 1/2 200 222 237 276 307 344 357 441 496 412 529 549 669 679 763 443 399 443 473 552 600 688	4 205 227 243 283 363 366 453 509 4 313 348 371 433 470 560 693 779	TURNS 3 1/2 210 233 249 290 315 362 375 464 522  TURNS 3 1/2 3 19 355 464 522  TURNS 442 480 550 706 794  TURNS 412 417 457 457 457 469 618	ON MOTOR  3 215 239 255 297 323 370 385 475 534  ON MOTOR 3 325 361 489 450 489 720 809  ON MOTOR 4494 494 494 494 495 578 627 720	PULLEY 220 2444 261 304 331 379 394 487 547  PULLEY 2 1/2 2 331 368 368 379 498 571 593 459 498 571 593 722 733 824  PULLEY 2 1/2 4 1/2 4 1/2 5	2 225 250 267 312 338 388 403 498 560 2 2 338 375 400 467 507 507 508 604 747 840	1 1/2 230 256 273 319 346 397 412 501 509 572  1 1/2 344 382 408 476 517 749 761 855	1 235 261 279 326 406 421 521 585 1 350 389 415 484 526 603 626 774 870 1 442 491 491 491 664 762	1/2 240 267 285 333 361 414 430 452 598  1/2 356 392 493 561 637 778 88 885	Closed  0 246 273 291 340 369 423 439 535 543 611  Closed 0 362 402 429 501 544 624 648 789 801 901  Closed 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3 to 5 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V166 2B5V124 2B5V167 2B5V124 2B5V126 2B5V128 2B5V110  7-1/2 to 10 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V100 2B5V184 2B5V100 15 to 20 HP BX BELTS  BLOWER PULLEY 2B5V278 2B5V280 2B5V184 2B5V1960 2B5V184 2B5V1960 2B5V184 2B5V1960 2B5V278 2B5V2900 2B5V184 2B5V1900 2B5V184	DATUM DIAMETER 27.8 25.4 20 18.4 16.1 15.4 11.2 11.1  DATUM DIAMETER 27.8 29.2 20.4 20.1 18.4 11.1  DATUM DIAMETER 27.8 28.1 21.4 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1	MOTOR PULLEY 2VP42  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 25.7 12.9 12.7 11.3   MOTOR PULLEY 2VP60  PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 23.7 20.3 18.7 16.3 15.7 12.9 12.9 12.7 11.3   MOTOR PULLEY 2VP50 20.3 18.7 16.3 15.7 12.9 12.9 12.7 11.3   MOTOR PULLEY 2VP75 20.3 18.7 16.3 16.7 16.8 16.7 16.8 16.7 16.8 16.7 16.8 16.7 16.8 16.7 16.7 16.7 16.7 16.7 16.7 16.7 16.7	Dd1 2.9 Open 6 184 205 218 225 217 317 317 317 317 401 407 458  Dd1 4.3 Open 6 289 342 399 434 497 516 628 638 717  Dd1 5,8 Open 6 381 423 451 557 572 656	51/2 329 329 329 329 329 329 329 329 329 32	Pd1 3 5 194 216 217 218 218 218 218 218 218 218 218 218 218	Pd2 4 1/2 200 2237 276 300 344 357 441 496 417 364 425 461 529 669 679 763 Pd2 7.4 4 1/2 399 443 473 552 600 688	4 205 227 223 283 383 353 363 446 453 509 4 313 313 371 433 470 540 682 693 779	TURNS 3 1/2 239 290 362 365 457 464 522  TURNS 3 1/2 319 319 329 378 442 480 570 696 794  TURNS 3 1/2 411 457 458 488 618 709 736	ON MOTOR 3 215 239 239 370 370 380 468 475 534  ON MOTOR 3 325 326 386 450 386 450 970 00 00 00 00 00 00 00 00 00 00 00 00 0	PULLEY 220 244 304 337 379 487 547  PULLEY 2 1/2 338 393 459 459 573 572 733 824  PULLEY 2 1/2 424 470 502 636 636 730 758	2 225 250 267 312 338 388 490 498 560 2 2 337 400 467 562 407 407 407 407 407 407 407 407 407 407	1 1/2 230 250 273 319 346 397 451 509 572  1 1/2 348 476 517 691 855	1 235 261 329 326 334 406 421 521 585 1 389 415 484 623 623 623 624 424 421 421 421 422 421 421 422 421 422 423 424 424 424 425 426 427 427 427 427 427 427 427 427 427 427	1/2 240 267 285 333 361 414 415 532 598  1/2 356 422 493 537 788 885	Closed 0 246 273 340 349 423 439 535 543 611  Closed 0 362 402 429 501 544 624 628 789 801 901  Closed 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## **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	<b>Corrective Action</b>
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	Reduce fan RPM
	design	
Insufficient Airflow	Fan rotating in the wrong direction	Be sure fan is rotating in the
		direction shown on rotation label
	Poor inlet/outlet conditions	There should be a straight clear
		duct at the inlet/outlet
	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
	Belt slippage	Adjust belt tension
Excessive Airflow	Blower speed to high	Reduce fan RPM
	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 discharge 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. Bearings should be lubricated every 2 months. The type of grease and the amount of grease can is shown below. Caution: Bearings are sealed and over-greasing bearings can cause damage to the bearings. Do not grease until grease comes out of seals. Only add the appropriate amount of grease.
- 3. All fasteners should be checked for tightness each time maintenance checks are preformed prior to restarting unit.
- 4. Fans 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.

#### **Bearing Grease Charge**

Ball Bearings				
Shaft Size (Inches)	Grease Charge (Ounces)			
1/2 to 3/4	0.03			
7/8 to 1 3/16	0.10			
1 1/4 to 1 1/2	0.15			
1 11/16 to 1 15/16	0.20			
2 to 2 7/16	0.30			
2 1/2 to 2 15/16	0.50			
3 to 3 7/16	0.85			
3 1/2 to 4	1.50			

#### **Bearing Grease Type**

Thickener	Lithium Complex
Oil	Petroleum
Thickness	NLGI 2
Operating Temperature	-20 F to 200 F Intermittent to 250 F

## 2 weeks after startup

- 1. Belt tension should be checked after the first 2 weeks of fan operation on belt drive fans. 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 re-tension belts, turn the power to the fan motor OFF. Loosen the fasteners that hold the motor to the fan. Move 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.
- 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 for belt drive fans. 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. Fans need to be cleaned quarterly, and more often in severe conditions.

#### **Yearly**

- 1. Inspect bearings for wear and deterioration. Replace/grease if necessary.
- 2. Inspect belt wear and replace torn or worn belts on belt drive fans.
- 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.

Refer to the start-up procedure in this manual to com	plete 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				

<sup>\*\*</sup>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