Power Roof Ventilator

Installation, Operation, and Maintenance Manual







Down-blast Centrifugal 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.

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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.
- 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.
- 7. 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.

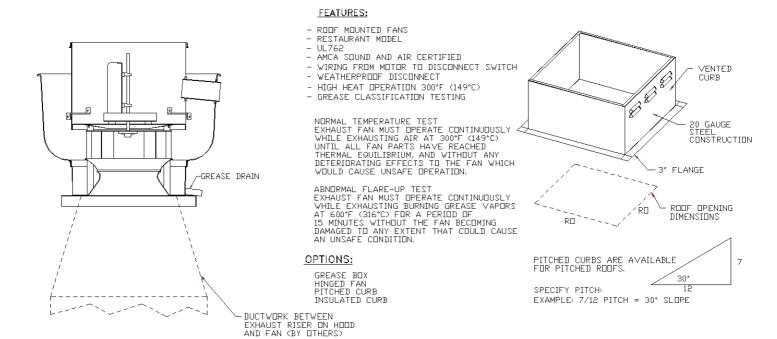
Also, transitions and turns in ductwork near the fan inlet will cause system effect and will drastically increase the static pressure and reduce airflow. Follow SMACNA guides and recommendations for the remaining duct run. Fans designed for rooftop installation should be installed on a prefabricated 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.



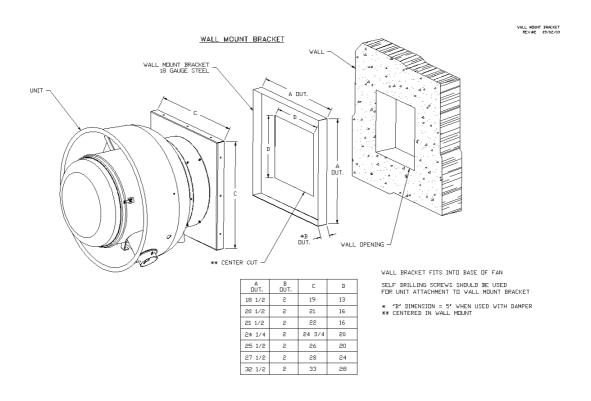
The fan should be installed on a curb and/or

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.

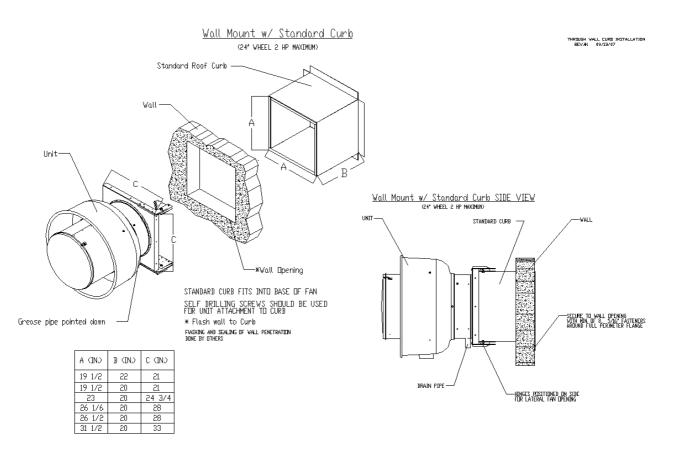
Up-Blast Roof Mount Installation



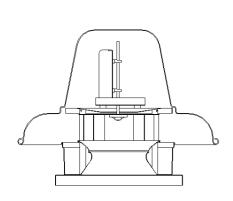
Up-Blast Wall Mount Installation



Up-Blast Through Wall Installation



Down-Blast Installation

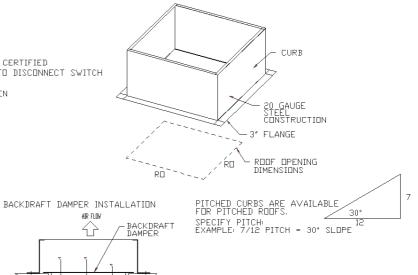


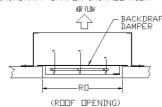
FEATURES:

- ROOF MOUNTED FANS
 UL705
 AMCA SOUND AND AIR CERTIFIED
 WIRING FROM MOTOR TO DISCONNECT SWITCH
 DISCONNECT SWITCH
- STANDARD BIRD SCREEN

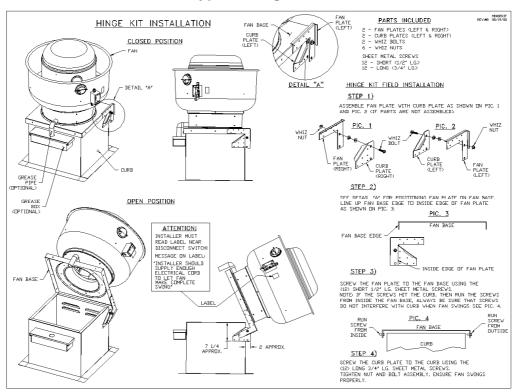
OPTIONS:

HINGED FAN PITCHED CURB INSULATED CURB BACKDRAFT DAMPER

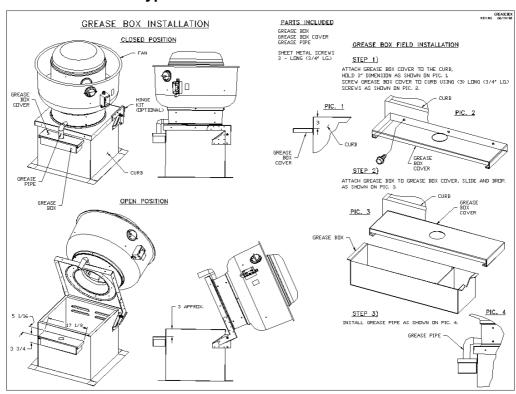




Typical Hinge Kit



Typical Grease Box Installation



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.

- 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	15
12	20
10	30
8	50
6	65
4	85

- 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".
- 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 THHN wire or equivalent.

Speed Control

Some single phase direct drive fans contain speed controls that regulate the amount of voltage going to the motor. Specific 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.

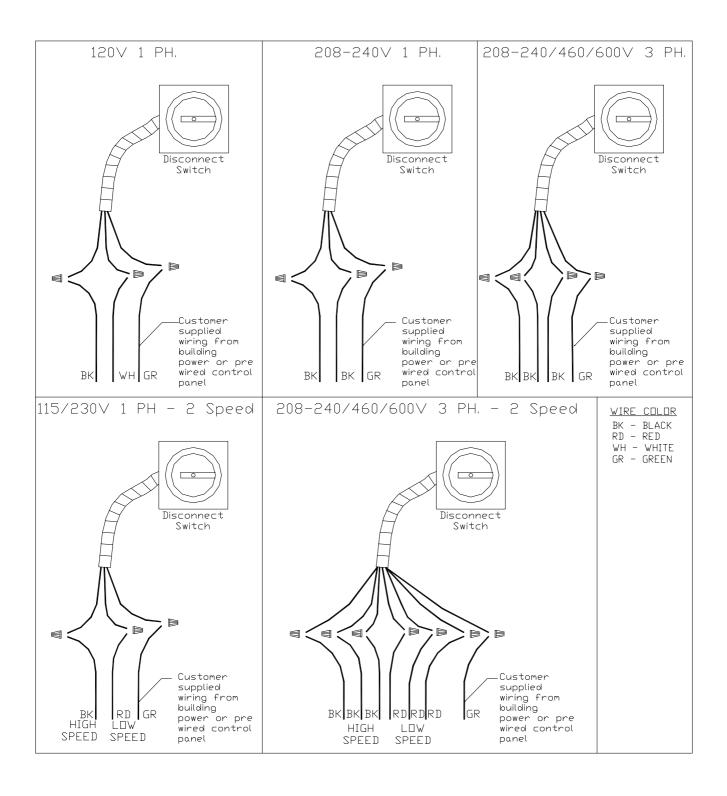
The lowest minimum voltage that may be applied to these motors is 65VAC. Running lower voltages to the motor can cause premature failure and overheating problems.

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

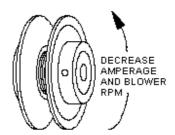
Special Tools Required

- 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.
- 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.

Pulley Adjustment Illustration



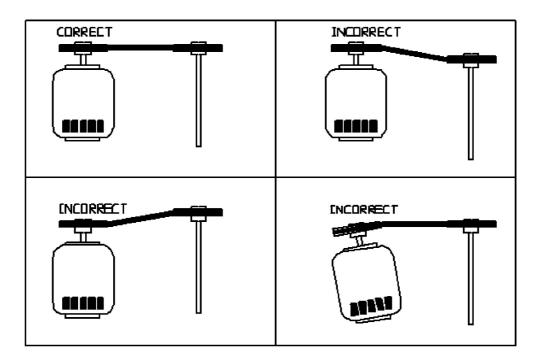
Pulley Adjustment (Belt Drive Fans)

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.

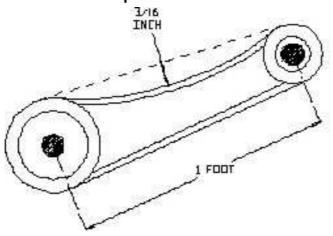
Pulley Setscrew Torque

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	Dd1	Dd2	Pd1	Pd2									
AX BELTS		1VL34	1.9	2.9	2	3									
			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	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									
	r		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 9.2	400	416	431	447	462 563	477	493	508	524	539	554		
AK94	9		488	506	525	544		581	600	619	638	656	675		
AK79 AK66	7.5 6.2	7.7 6.4	582 701	605 728	627 755	650 782	672 809	694 836	717 863	739 889	762 916	784 943	806 970		
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		
AK32	3	3.2	1402	1455	1509	1563	1617	1671	1725	1779	1833	1887	1941		
	•	•	•	•				•		•		•	<u> </u>		
2 to 5 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
BX BELTS		2VP42	2.9	3.9											
			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	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
2BK110H	10.4	10.7	484	497	511	524	537	551	564	578	591	605	618	631	645
2BK100H 2BK90H	9.4 8.4	9.7 8.7	534 595	548 611	563 628	578 644	593 661	608 677	622 694	637 710	652 727	667 744	682 760	697 777	711 793
2BK90H 2BK80H	7.4	7.7	672	691	709	728	747	765	784	803	821	840	760 859	877	793 896
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	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									
			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	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 2BK110H	11.4 10.4	11.7 10.7	693 758	708 774	722 790	737 806	752 822	767 838	781 854	796 871	811 887	826 903	840 919	855 935	870 951
2BK110H	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		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
BX BELTS															
		2VP42	2.9	3.9											
			Open						ON MOTOR						Closed
BLOWER PULLEY	DATUM DIAMETER	PITCH DIAMETER	Open 6	5 1/2	5	4 1/2	4	3 1/2	3	2 1/2	2	1 1/2	1	1/2	0
BLOWER PULLEY 2B5V278	27.8	PITCH DIAMETER 28.1	Open 6 184	5 1/2 189	5 194	4 1/2 200	205	3 1/2 210	3 215	2 1/2 220	225	230	235	240	0 246
BLOWER PULLEY 2B5V278 2B5V250	27.8 25	PITCH DIAMETER 28.1 25.3	Open 6 184 205	5 1/2 189 210	5 194 216	4 1/2 200 222	205 227	3 1/2 210 233	215 239	2 1/2 220 244	225 250	230 256	235 261	240 267	0 246 273
BLOWER PULLEY 2B5V278 2B5V250 2B5V234	27.8 25 23.4	PITCH DIAMETER 28.1 25.3 23.7	Open 6 184 205 218	5 1/2 189 210 224	5 194 216 230	4 1/2 200 222 237	205 227 243	3 1/2 210 233 249	3 215 239 255	2 1/2 220 244 261	225 250 267	230 256 273	235 261 279	240 267 285	0 246 273 291
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200	27.8 25 23.4 20	PITCH DIAMETER 28.1 25.3 23.7 20.3	Open 6 184 205 218 255	5 1/2 189 210 224 262	5 194 216 230 269	4 1/2 200 222 237 276	205 227 243 283	3 1/2 210 233 249 290	3 215 239 255 297	2 1/2 220 244 261 304	225 250 267 312	230 256 273 319	235 261 279 326	240 267 285 333	0 246 273 291 340
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184	27.8 25 23.4 20 18.4	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7	Open 6 184 205 218 255 277	5 1/2 189 210 224 262 284	5 194 216 230 269 292	4 1/2 200 222 237 276 300	205 227 243 283 307	3 1/2 210 233 249 290 315	3 215 239 255 297 323	2 1/2 220 244 261 304 331	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160	27.8 25 23.4 20	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3	Open 6 184 205 218 255 277 317	5 1/2 189 210 224 262 284 326	5 194 216 230 269 292 335	4 1/2 200 222 237 276 300 344	205 227 243 283 307 353	3 1/2 210 233 249 290 315 362	3 215 239 255 297 323 370	2 1/2 220 244 261 304 331 379	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184	27.8 25 23.4 20 18.4 16	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7	Open 6 184 205 218 255 277	5 1/2 189 210 224 262 284	5 194 216 230 269 292	4 1/2 200 222 237 276 300	205 227 243 283 307	3 1/2 210 233 249 290 315	3 215 239 255 297 323	2 1/2 220 244 261 304 331	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154	27.8 25 23.4 20 18.4 16	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7	Open 6 184 205 218 255 277 317 330 401 407	5 1/2 189 210 224 262 284 326 339 412 419	5 194 216 230 269 292 335 348 423 430	4 1/2 200 222 237 276 300 344 357 435	205 227 243 283 307 353 366	3 1/2 210 233 249 290 315 362 375	3 215 239 255 297 323 370 385 468 475	2 1/2 220 244 261 304 331 379 394 479 487	225 250 267 312 338 388 403	230 256 273 319 346 397 412	235 261 279 326 354 406 421	240 267 285 333 361 414 430 524 532	0 246 273 291 340 369 423 439
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V136	27.8 25 23.4 20 18.4 16 15.4 12.6	PITCH DIAMETER 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	5 1/2 189 210 224 262 284 326 339 412	5 194 216 230 269 292 335 348 423	4 1/2 200 222 237 276 300 344 357 435	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	2 1/2 220 244 261 304 331 379 394 479	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V136 2B5V124 2B5V124	27.8 25 23.4 20 18.4 16 15.4 12.6	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3	Open 6 184 205 218 255 277 317 330 401 407 458	5 1/2 189 210 224 262 284 326 339 412 419	5 194 216 230 269 292 335 348 423 430 483	4 1/2 200 222 237 276 300 344 357 435 441 496	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	2 1/2 220 244 261 304 331 379 394 479 487	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP	27.8 25 23.4 20 18.4 16 15.4 12.6	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 11.3	Open 6 184 205 218 255 277 317 330 401 407 458	5 1/2 189 210 224 262 284 326 339 412 419 471	5 194 216 230 269 292 335 348 423 430 483	4 1/2 200 222 237 276 300 344 357 435 441 496	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	2 1/2 220 244 261 304 331 379 394 479 487	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V136 2B5V124 2B5V124	27.8 25 23.4 20 18.4 16 15.4 12.6	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 12.7 11.3	Open 6 184 205 218 255 277 317 330 401 407 458	5 1/2 189 210 224 262 284 326 339 412 419	5 194 216 230 269 292 335 348 423 430 483	4 1/2 200 222 237 276 300 344 357 435 441 496	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	2 1/2 220 244 261 331 379 394 479 487 547	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	0 246 273 291 340 369 423 439 535 543 611
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4	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	Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5	5 194 216 230 269 292 335 348 423 430 483	4 1/2 200 222 237 276 300 344 357 435 441 496	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	2 1/2 220 244 261 304 331 379 479 487 547	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	0 246 273 291 340 369 423 535 543 611
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 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	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER	Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5	5 194 216 230 269 292 292 335 348 423 430 483 Pd1 4.7	4 1/2 200 222 237 276 300 344 357 435 441 496 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	2 1/2 220 244 261 304 331 379 394 479 487 547	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
BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V174 2B5V174 2B5V175 BLOWER PULLEY 2B5V278	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11	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	Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7	4 1/2 200 222 237 276 300 344 357 435 441 496 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	2 1/2 220 244 261 304 331 379 394 479 487 547	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 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	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7 12.9 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER	Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5	5 194 216 230 269 292 292 335 348 423 430 483 Pd1 4.7	4 1/2 200 222 237 276 300 344 357 435 441 496 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	2 1/2 220 244 261 304 331 379 394 479 487 547	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
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V278	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25	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 25.3	Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7	4 1/2 200 222 237 276 300 344 357 435 441 496 8d2 5.9	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	3 215 239 255 297 323 370 385 468 475 534	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368	225 250 267 312 338 388 400 499 560	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 Closed 0 362 402
BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V174 2B5V174 2B5V175 3B5V175 3B5V175 3B5V175 3B5V175 3B5V278 2B5V278 2B5V278 2B5V278 2B5V278	27.8 25 23.4 20 18.4 16. 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4	PITCH DIAMETER 28.1 25.3 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	Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342	5 1/2 189 210 224 224 326 339 412 419 471 Dd2 5.5	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7	4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5.9 4 1/2 307 341 364	205 227 243 307 353 366 446 453 509	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393	225 250 267 312 338 388 403 490 498 560	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408	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 Closed 0 362 402 429
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V116 2B5V124 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V234 2B5V200 2B5V184 2B5V106	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	PITCH DIAMETER 28.1 25.3 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VF60 PITCH DIAMETER 25.3 20.3 18.7 20.3 18.7	Open 6 184 205 218 255 277 330 401 407 458 Dd1 4.3 Open 6 289 320 342 399 434 497	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	5 194 216 230 269 292 333 348 423 430 483 Pd1 4.7 5 301 334 45 5 9 416 452 519	4 1/2 200 222 237 276 300 344 357 435 441 496 41/2 307 344 41/2 307 344 425 461 529	205 227 243 283 307 353 366 446 453 509 4 4 313 348 371 433 470 540	3 1/2 210 233 249 290 315 362 375 464 522 TURNS 3 1/2 319 355 378 442 442	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 489 450 450	2 1/2 220 244 261 304 331 379 487 547 PULLEY 2 1/2 331 368 393 459 488 571	225 250 267 312 338 403 490 498 560 2 338 375 400 467 507	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517	235 261 279 326 354 406 421 513 521 585 1 350 389 415 484 5603	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614	0 246 273 291 369 423 439 535 543 611 Closed 0 362 402 429 501 544 624
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V170 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V234 2B5V234 2B5V234 2B5V234 2B5V184 2B5V184 2B5V184 2B5V184	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	PITCH DIAMETER 28.1 25.3 20.3 18.7 16.3 15.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 28.1 28.1 28.1 28.1 28.1 28.1 16.3 16.3 16.7	Open 6 184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 342 349 434 497 516	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 443 508	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 538	4 1/2 200 222 237 276 300 344 357 435 441 496 41/2 307 341 364 425 461 529	205 227 243 283 307 353 366 446 445 509 4 313 348 313 348 347 470 550	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 551	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582	2 1/2 220 244 261 304 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571	225 250 267 312 338 403 490 498 560 2 2 338 375 400 67 507	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593	235 261 279 326 354 406 421 513 521 585 1 350 389 415 484 526 626	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 6648
BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V170 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V234 2B5V234 2B5V160 2B5V160 2B5V160 2B5V154 2B5V160 2B5V154 2B5V160	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 11.4 116 11.5 11.6 11.6 11.6 11.6 11.6 11.6	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 12.9	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	5 1/2 189 210 224 262 284 326 339 412 419 471 002 5.5 51/2 295 327 349 408 443 508 527 642	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 357 416 452 519 538	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	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 540 560	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 440 550 550	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 489 489 450 450 450 461 561 561	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 459 459 571	225 250 267 312 338 403 499 498 560 2 2 338 375 400 467 507 582 604	230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 517 593 615	235 261 279 326 354 406 421 521 585 1 350 389 415 484 526 603 626 762	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 429 501 544 624 648 789
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-J/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V28 2B5V294 2B5V184 2B5V184 2B5V186 2B5V184 2B5V186 2B5V184 2B5V186 2B5V184 2B5V186	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	PITCH DIAMETER 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 25.7 20.3 18.7 20.3 18.7 10.3	Open 6 184 205 1184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 349 349 434 434 434 628 638	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 448 508 508 527 642	5 194 216 230 269 292 3335 348 423 430 483 Pd1 4,7 5 301 334 357 416 452 519 538 655	4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 549 669	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 560 662 663	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 3 325 361 386 450 489 450 489 709 720	2 1/2 220 244 261 304 331 379 394 479 487 547 2 1/2 3 368 393 459 498 571 593 722 733	225 250 267 312 338 388 403 499 498 560 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749	235 261 279 326 406 421 513 521 585 1 350 389 415 526 603 626 762 774	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 648 789 801
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V234 2B5V214 2B5V160 2B5V136 2B5V136 2B5V136 2B5V136 2B5V136	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 11.4 116 11.5 11.6 11.6 11.6 11.6 11.6 11.6	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 12.9	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	5 1/2 189 210 224 262 284 326 339 412 419 471 002 5.5 51/2 295 327 349 408 443 508 527 642	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 357 416 452 519 538	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	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 540 560	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 440 550 550	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 489 489 450 450 450 461 561 561	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 459 459 571	225 250 267 312 338 403 499 498 560 2 2 338 375 400 467 507 582 604	230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 517 593 615	235 261 279 326 354 406 421 521 585 1 350 389 415 484 526 603 626 762	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 429 501 544 624 648 789
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V116 2B5V124 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V210 2B5V184 2B5V110 2B5V184 2B5V1160 2B5V154 2B5V1160 2B5V154 2B5V1160 2B5V1160 2B5V1160 2B5V1161	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	PITCH DIAMETER 28.1 25.3 20.3 16.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VF60 PITCH DIAMETER 28.1 25.3 20.3 18.7 20.3 18.7 12.9 12.7 11.3	Open 6 184 205 1184 205 218 255 277 317 330 401 407 458 Dd1 4.3 Open 6 289 320 349 434 497 516 628 638 717	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 508 507 642 652 733	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519 519 538 655 666 748	4 1/2 200 222 237 276 300 344 357 435 441 496 Pd 5,9 307 341 364 425 461 529 549 669 679 763	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 560 662 663	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 3 325 361 386 450 489 450 489 709 720	2 1/2 220 244 261 304 331 379 394 479 487 547 2 1/2 3 368 393 459 498 571 593 722 733	225 250 267 312 338 388 403 499 498 560 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749	235 261 279 326 406 421 513 521 585 1 350 389 415 526 603 626 762 774	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 648 789 801
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V234 2B5V250 2B5V250 2B5V24 2B5V214 2B5V216 2B5V250 2B5V184 2B5V100	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	PITCH DIAMETER 28.1 25.3 20.3 18.7 20.3 18.7 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 28.1 25.3 23.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 16.3 15.7 12.9 12.7	Open 6 184 205 218 255 277 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 638 717	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 507 642 652 733	5 194 216 230 269 292 335 348 423 430 483 483 47 5 301 334 452 519 528 655 666 748	4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 669 679 763	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 560 662 663	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 3 325 361 386 450 489 450 489 709 720	2 1/2 220 244 261 304 331 379 394 479 487 547 2 1/2 3 368 393 459 498 571 593 722 733	225 250 267 312 338 388 403 499 498 560 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749	235 261 279 326 406 421 513 521 585 1 350 389 415 526 603 626 762 774	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 648 789 801
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V116 2B5V124 2B5V110 7-1/2 to 10 HP BK BELTS BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V210 2B5V184 2B5V160 2B5V184 2B5V1160 2B5V154 2B5V1160 2B5V154 2B5V1160 2B5V154 2B5V1160 2B5V1160 2B5V1160 2B5V1160 2B5V1160	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	PITCH DIAMETER 28.1 25.3 20.3 16.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VF60 PITCH DIAMETER 28.1 25.3 20.3 18.7 20.3 18.7 12.9 12.7 11.3	Open 6 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 Od1 588	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 508 507 642 652 733	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519 519 538 655 666 748	4 1/2 200 222 237 276 300 344 357 435 441 496 Pd 5,9 307 341 364 425 461 529 549 669 679 763	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 560 662 663	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706 794	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 3 325 361 386 450 489 450 489 709 720	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824	225 250 267 312 338 388 403 499 498 560 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749	235 261 279 326 406 421 513 521 585 1 350 389 415 526 603 626 762 774	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 402 429 501 544 648 789 801
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V136 2B5V124 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V260 2B5V184 2B5V184 2B5V184 2B5V194 2B5V184 2B5V194 2B5V184 2B5V194 2B5V184 2B5V194 2B5V184 2B5V194 2B5V184	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	PITCH DIAMETER 28.1 25.3 20.3 18.7 20.3 18.7 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 28.1 25.3 23.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 16.3 15.7 12.9 12.7	Open 6 184 205 1184 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	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 448 443 508 508 527 642 652 733	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519 538 655 666 748	4 1/2 200 222 237 276 300 344 357 441 496 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 4 313 348 371 433 470 560 662 663	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 3 19 355 378 480 550 571 695 794	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 709 720 809	2 1/2 220 244 261 304 331 339 479 394 479 487 547 PULLEY 2 1/2 3 331 368 393 459 498 571 593 722 733 824	225 250 267 312 338 490 498 560 2 338 375 400 467 507 582 604 735 747 840	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749 761 855	235 261 279 326 354 406 421 513 521 585 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	0 246 273 291 340 369 423 439 535 611 Closed 0 362 402 429 501 544 624 648 789 801
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V234 2B5V250 2B5V250 2B5V254 2B5V214 2B5V100 2B5V184 2B5V184 2B5V184 2B5V1960 2B5V184 2B5V160 2B5V154 2B5V110	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	PITCH DIAMETER 28.1 25.3 20.3 16.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3	Open 6 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 Od1 588	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 507 642 652 733	5 194 216 230 269 292 335 348 423 430 483 483 47 5 301 334 452 519 528 655 666 748	4 1/2 200 222 237 276 300 344 357 435 441 496 Pd2 5.9 4 1/2 307 341 364 425 461 529 669 679 763	205 227 243 283 307 353 366 453 509 4 4 313 348 371 433 470 560 682 693 779	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706 794	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 709 720 809	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824	225 250 267 312 338 388 403 499 498 560 2 338 375 400 467 507 507 507 507 507 507 507 507 507 50	230 256 273 319 346 397 412 501 509 572 1 1/2 344 382 408 476 517 593 615 749	235 261 279 326 406 421 513 521 585 1 350 389 415 526 603 626 762 774	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776	0 246 273 291 340 369 423 439 535 543 611 Closed 0 402 429 402 429 501 544 648 789 801 901 Closed Closed
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V234 2B5V234 2B5V160 2B5V124 2B5V160 2B5V1250 2B5V1250 2B5V1250 2B5V126 2B5V126 2B5V1278 2B5V156 2B5V156 2B5V156 2B5V1161	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	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 25.7 20.3 18.7 16.3 15.7 20.3 11.3 15.7 16.3 15.7 20.3 18.7 16.3 15.7 16.3 15.7 20.3 18.7 16.3 15.7 16.3 15.7 17.9 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7	Open 6 184 205 218 255 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6	5 1/2 189 210 224 262 284 326 339 419 471 Dd2 5.5 5 1/2 295 327 408 448 443 508 527 642 652 7	5 194 216 230 269 292 335 348 423 430 483 430 483 430 483 5 5 301 334 4.7 5 5 301 357 416 452 5 5 666 748	4 1/2 200 222 237 276 300 344 357 441 496 8d2 5.9 4 1/2 307 341 559 4 1/2 307 341 599 669 679 763	205 227 243 283 307 353 366 446 453 509 4 4 313 348 371 433 470 540 682 693 779	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 794	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 709 720 809	2 1/2 220 244 261 304 331 379 394 479 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824	225 250 267 312 338 388 490 498 560 2 2 338 375 400 467 507 507 507 502 404 735 747 840	230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 517 593 693 693 695 749 761 855	235 261 279 326 334 406 421 513 521 585 1 350 445 484 526 603 603 603 603 603 603 603 603 603 60	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 0 362 402 429 501 544 624 624 628 648 789 801 Closed 0 Closed 0
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V100 2B5V184 2B5V154 2B5V124 2B5V110 7-1/2 to 10 HP BK BELTS BLOWER PULLEY 2B5V278 2B5V278 2B5V234 2B5V200 2B5V184 2B5V104 2B5V184 2B5V194 2B5V194 2B5V194 2B5V194 2B5V194 2B5V194 2B5V194 2B5V195 2B5V194 2B5V194 2B5V195 2B5V194 2B5V196 2B5V194 2B5V196 2B5V198 2B5V198 2B5V198 2B5V198 2B5V198 2B5V198 2B5V198 2B5V199 2B5V198 2B5V278	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 28 29 20 20 20 20 20 21 21 22 21 20 21 20 21 21 22 23 24 20 20 20 20 20 20 20 20 20 20 20 20 20	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 12.9 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 21.7 20.3 18.7 16.3 15.7 11.3 MOTOR PULLEY 2VP75	Open 6 8 184 205 218 255 277 337 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6 6 381	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5,5 5 1/2 295 327 349 408 443 508 508 508 508 508 508 508 508	5 194 216 230 269 292 292 335 348 423 430 483 Pd1 4.7 5 301 334 45 5 5 101 5 105 666 748 Pd1 6.5 5 666 748	4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5,9 4 1/2 307 341 364 425 461 529 549 669 679 763 Pd2 4 1/2	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 560 682 693 779	3 1/2 210 233 249 315 362 375 457 457 457 457 457 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706 794 TURNS 3 1/2 411	3 215 239 255 297 323 370 385 468 475 534 0N MOTOR 3 325 469 450 489 561 582 709 720 809	2 1/2 220 224 261 304 331 379 394 479 547 PULLEY 2 1/2 311 368 393 459 498 571 593 722 733 824	225 250 267 312 338 388 403 490 498 560 2 2 338 375 400 467 507 582 604 735 747 840	230 256 273 319 346 397 412 501 509 572 1 11/2 344 382 408 476 517 593 615 749 761 855	235 261 279 326 354 406 421 531 521 585 1 359 415 350 389 415 484 603 626 762 774 870	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 788 885	0 246 273 291 340 369 423 439 535 611 Closed 0 429 429 402 429 402 429 601 501 501 501 501 501 501 501 501 501 5
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V250 2B5V184 2B5V100 2B5V184 2B5V100 2B5V184 2B5V100 2B5V184 2B5V200 2B5V184 2B5V250 2B5V28 2B5V200 2B5V184 2B5V200 2B5V184 2B5V250 2B5V250 2B5V24 2B5V250 2B5V24 2B5V250 2B5V250 2B5V250 2B5V250 2B5V250 2B5V250 2B5V250	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8 25 23.4 16 15.4 11 DATUM DIAMETER 27.8 28 29 18.4 11 11 DATUM DIAMETER 20 20 20 20 20 20 20 20 20 20 20 20 20	PITCH DIAMETER 28.1 25.3 20.3 16.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 28.1 25.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.3 18.7 20.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 23.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3 20.7 20.3	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 6 381 423 423 451 527	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 327 349 408 443 508 508 527 642 652 733 Dd2 7	5 194 216 230 269 292 335 348 423 430 483 Pd1 4.7 5 301 334 452 519 538 655 666 748 Pd1 6.2	4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5,9 4 1/2 307 341 425 461 529 549 669 679 763 Pd2 74 4 1/2 399 443 473	205 227 243 283 307 353 366 446 453 509 4 313 348 371 540 682 693 779 4 405 450 480 480 561	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 480 550 571 695 706 794 TURNS 3 1/2 487 487 487 487 487	3 215 239 255 297 323 370 385 468 475 534 ON MOTOR 3 325 361 386 450 489 561 582 709 720 809	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 3 1/3 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 470 502	225 250 267 3112 338 388 403 490 498 560 2 2 338 375 400 467 507 582 604 735 647 840	230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 517 593 615 749 761 855	235 261 279 229 326 354 406 421 513 521 585 1 350 389 415 484 526 603 626 762 774 870	240 267 285 333 361 414 430 524 532 598 1/2 356 422 493 535 614 637 776 788 885	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 624 648 789 801 901 Closed 0 454 454 505 539 629
BLOWER PULLEY 2B5V278 2B5V250 2B5V234 2B5V200 2B5V134 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V234 2B5V250 2B5V136 2B5V124 2B5V136 2B5V136 2B5V124 2B5V136 2B5V125 2B5V136 2B5V124 2B5V136	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 2.5 23.4 20 18.4 16 12.6 12.4 20 20 20 20 20 20 20 20 20 20 20 20 20	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 12.9 11.7 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 6 289 320 342 399 434 497 516 628 638 717 Dd1 5.8 Open 6 381 423 451 527	5 1/2 189 210 224 262 284 326 339 412 419 471 D02 5.5 5 1/2 295 327 349 408 443 508 527 642 652 733 Dd2 7 5 1/2 387 459 535	5 194 216 230 269 292 335 348 423 430 483 430 483 430 483 430 483 55 301 334 447 4.7 5 5 301 335 416 45 5 666 748 865 748 865 748 865 865 866 866 866 866 866 866 866 86	4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5.9 4 1/2 307 341 529 669 679 763 Pd2 7.4 4 1/2 399 443 473 552 600	205 227 243 283 307 353 366 446 453 509 4 313 431 433 470 540 682 693 779 4 405 480 561	3 1/2 210 233 249 290 315 362 375 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 794 TURNS 3 1/2 488 569	3 215 239 255 297 323 370 385 468 475 534 361 386 450 489 561 582 709 809 ON MOTOR 3 417 464 495 578 627	2 1/2 220 244 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 424 470 502 586	225 250 267 312 338 388 490 498 560 2 2 338 375 400 467 507 582 604 735 747 840	230 256 273 319 346 397 412 501 509 572 1 1/2 344 476 517 593 615 749 761 855 855	235 261 279 326 334 406 421 513 521 585 1 359 449 484 526 603 626 6762 774 870	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 617 788 885	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 429 429 501 544 624 624 624 624 624 625 55 539 629 683
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V184 2B5V154 2B5V116 2B5V124 2B5V116 BLOWER PULLEY 2B5V278 2B5V234 2B5V250 2B5V184 2B5V160 2B5V184 2B5V1160 2B5V184 2B5V1160 2B5V184 2B5V1160 2B5V184 2B5V2184 2B5V2184 2B5V2184 2B5V2184 2B5V2184 2B5V1186	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 DATUM DIAMETER 27.8 28 29 18.4 11 11 DATUM DIAMETER 29 18.4 11 11 DATUM DIAMETER 21.8 11 11 DATUM DIAMETER 21.8 11 11 DATUM DIAMETER 22.8 18.4 11 11 DATUM DIAMETER 23.4 11 11	PITCH DIAMETER 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 20.3 18.7 16.3 15.7 20.3 16.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP60 PITCH DIAMETER 25.3 20.3 15.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP75 PITCH DIAMETER 28.1 29.3 AMD PULLEY 20.3 18.7 10.3 10.3 10.3 10.3 10.7 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3	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 6 381 423 451 527 572 656	5 1/2 189 210 224 262 284 326 339 412 419 471 DG2 5,5 5 1/2 295 327 349 408 443 508 5527 642 652 733 DG2 7 5 1/2 387 430 459 535 581	5 194 216 230 269 292 292 335 348 423 430 483 Pd1 4.7 5 301 334 457 416 452 519 538 666 748 Pd1 6.5 5 5 666 748 Pd1 6.5 5 666 748 Pd1 6.5 666 748 748 748 748 748 748 748 748 748 748	4 1/2 200 222 237 276 300 344 357 441 496 Pd2 5,9 4 1/2 307 341 364 425 461 529 549 669 679 763 Pd2 4 1/2 399 443 473 552 600 688	205 227 243 283 3607 353 366 446 453 509 4 4 313 348 371 433 470 560 682 693 779 4 405 450 450 682 693	3 1/2 210 233 249 315 362 375 457 457 464 522 TURNS 3 1/2 319 355 378 442 480 550 571 695 706 794 TURNS 3 1/2 411 457 4457 4457 4457 696 618	3 215 239 255 297 323 370 385 468 475 534 475 534 534 558 297 720 809 809 809 809 809 809 809 809 809 80	2 1/2 220 224 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 593 722 733 824 PULLEY 2 1/2 586 636 730	225 250 267 312 338 388 403 490 498 560 2 2 338 375 400 467 507 582 604 735 747 840 2 430 477 595 646 741	230 256 273 319 346 397 412 501 509 572 1 11/2 344 382 408 476 517 593 615 749 761 855	235 261 279 326 354 406 421 585 585 1 359 415 585 1 350 389 415 603 626 762 774 870 1 442 491 591 442 491 591 664 664 664	240 267 285 333 361 414 430 524 532 598 1/2 356 395 422 493 535 614 637 776 788 885	0 246 273 291 340 369 423 439 535 611 Closed 0 402 429 801 901 Closed 0 454 555 555 555 555 562 9 663 783
BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V234 2B5V160 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V185	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 20.4 20 20.4 20 20.6 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	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 22.7 20.3 18.7 16.3 15.7 20.3 11.3 MOTOR PULLEY 2VP50 PITCH DIAMETER 28.1 29.1 12.7 11.3 MOTOR PULLEY 2VP75 PITCH DIAMETER 28.1 20.3 18.7 16.3 20.3 18.7 16.3 20.3 18.7 16.3	Open 6 184 205 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6 381 481 451 527 656 681	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 349 408 443 508 527 642 652 733 Dd2 7	5 194 216 230 269 292 335 348 423 430 483 430 483 430 483 430 483 55 301 334 447 45 55 666 748 865 566 666 748 87 87 87 87 87 87 87 87 87 87 87 87 87	4 1/2 200 222 237 276 300 344 357 441 496 841 497 497 497 497 497 497 497 497 497 497	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 540 682 693 779 4 405 450 689 689 699 698	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 1/2 481 695 706 794	3 215 239 255 297 323 370 385 468 475 534 386 450 489 561 582 709 720 809	2 1/2 220 224 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 722 733 824 PULLEY 2 1/2 424 470 502 586 636 730 758	225 250 267 312 338 388 490 498 560 2 338 375 400 467 507 582 604 735 747 840 2 4477 509 599 599 596 646 741	230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 517 761 855 1 1/2 436 436 436 517 761 761 761 761 761 761 761 761 761 7	235 261 267 279 236 336 406 406 415 521 585 585 1 350 415 484 623 623 623 627 774 870	240 267 285 333 361 414 430 524 532 598 1/2 356 422 493 535 614 637 776 788 885	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 429 402 429 501 544 664 789 801 901 Closed 0 454 505 539 6629 683 783 813
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BLOWER PULLEY 2B5V278 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V154 2B5V110 7-1/2 to 10 HP BX BELTS BLOWER PULLEY 2B5V278 2B5V234 2B5V160 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V184 2B5V185	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 20.4 20 20.4 20 20.6 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	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 22.7 20.3 18.7 16.3 15.7 20.3 11.3 MOTOR PULLEY 2VP50 PITCH DIAMETER 28.1 29.1 12.7 11.3 MOTOR PULLEY 2VP75 PITCH DIAMETER 28.1 20.3 18.7 16.3 20.3 18.7 16.3 20.3 18.7 16.3	Open 6 184 205 184 205 218 255 277 317 330 401 407 458 Dd1 4,3 Open 6 289 320 342 399 320 342 399 434 497 516 628 638 717 Dd1 5,8 Open 6 381 481 451 527 656 681	5 1/2 189 210 224 262 284 326 339 412 419 471 Dd2 5.5 5 1/2 295 349 408 443 508 527 642 652 733 Dd2 7	5 194 216 230 269 292 335 348 423 430 483 430 483 430 483 430 483 55 301 334 447 45 55 666 748 865 566 666 748 87 87 87 87 87 87 87 87 87 87 87 87 87	4 1/2 200 222 237 276 300 344 357 441 496 841 497 497 497 497 497 497 497 497 497 497	205 227 243 283 307 353 366 446 453 509 4 313 348 371 433 470 540 682 693 779 4 405 450 689 689 699 698	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 1/2 481 695 706 794	3 215 239 255 297 323 370 385 468 475 534 386 450 489 561 582 709 720 809	2 1/2 220 224 261 304 331 379 394 479 487 547 PULLEY 2 1/2 331 368 393 459 498 571 722 733 824 PULLEY 2 1/2 424 470 502 586 636 730 758	225 250 267 312 338 388 490 498 560 2 338 375 400 467 507 582 604 735 747 840 2 4477 509 599 599 596 646 741	230 256 273 319 346 397 412 501 509 572 1 1/2 344 408 476 517 761 855 1 1/2 436 436 436 517 761 761 761 761 761 761 761 761 761 7	235 261 267 279 236 336 406 406 415 521 585 585 1 350 415 484 623 623 623 627 774 870	240 267 285 333 361 414 430 524 532 598 1/2 356 422 493 535 614 637 776 788 885	0 246 273 291 340 369 423 439 535 543 611 Closed 0 362 402 429 501 544 624 628 789 801 901 Closed 0 454 688 789 683 783 813 783 813

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	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.
- 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 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.
- 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	piete 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

Factory Service Department

Phone: 1-866-784-6900 Fax: 1-919-554-9374