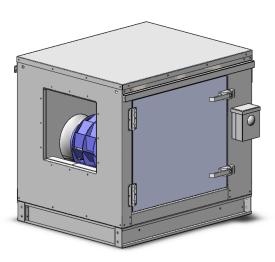
Installation, Operation, and Maintenance Manual





RECEIVING AND INSPECTION

Upon receiving unit, check for any interior and exterior damage, and if found, report it immediately to the carrier. Check that all accessory items are accounted for and free of damage. 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 24-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, or not maintained per the MANUFACTURER'S maintenance instructions.
- 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 24-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.

LISTINGS

The KB fan is ETL listed to standard UL-705 (electrical). The KB fan complies with UL-762 and CSA Std C22.2, No.113 listing when attached to a multi-pass air cleaning unit and installed in accordance with National Fire Protection Association Standard "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations".

KB-INLINE is ETL listed and complies with UL705 (electrical) and UL762 and CSA Std C22.2, No 113.

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. Recommended clearance on all sides of the ventilator is 18 inches.
- 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 in accordance with the applicable building code provisions.
- 5. The PCU is designed to operate in a negative pressure environment. Be sure to install the KB unit after a PCU. This will also keep the fan cleaner during operation.
- 6. The KB drains must be connected to the building grease interceptor or an approved building drain. Black Iron, Stainless Steel, or Copper Pipe must be used for this connection. If PCU assembly has Multiple Modules, the drain line must be 2.5 inch NPT pipe minimum.

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. 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).
- 3. Before connecting fan motor to power source verify power line wiring is de-energized.
- 4. 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.
- 5. Before powering up fan check ventilator wheel for free rotation.
- 6. Check all fasteners for tightness.

Indoor Mounting

- 1. Ventilators are designed for installation in indoor or inline installations.
- 2. Optional uni-strut bars can be ordered to suspend the unit from a roof structure.
- 3. 18 inches of clearance are required on all sides of the ventilator or the unit must be wrapped with clearance reducing grease rated insulation.
- 4. 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.
- 6. Before powering up fan check ventilator wheel for free rotation.
- 7. Check all fasteners for tightness.

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 when installed outdoors. 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.

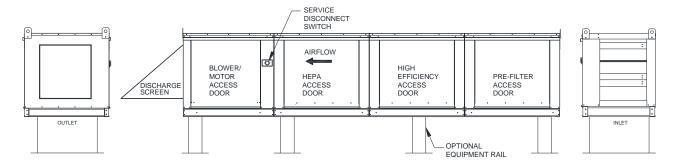
Ensure duct connections are properly aligned and sealed. When this fan unit is used in commercial grease ductwork, the ductwork connections must be **FULLY WELDED** to the fan. Clearance ratings of ductwork connected to the unit apply to the fan as well. Ductwork must be listed or installed in accordance with the IMC.

Table 1 - Recommended Discharge Ductwork Size

Blower	Min. Rectangular	Min. Round	Min. Straight
Size	Duct Size	Duct Diameter	Duct Length
10	14 in. x 14 in.	19 in.	48 in.
14	20 in. x 20 in.	26 in.	72 in.
18	24 in. x 24 in.	33 in.	86 in.
20	26 in. x 26 in.	37 in.	108 in.
25	32 in. x 32 in.	46 in.	168 in.
32	40 in. x 40 in.	57 in.	208 in.

Typical Roof Mount KB Installation with PCU

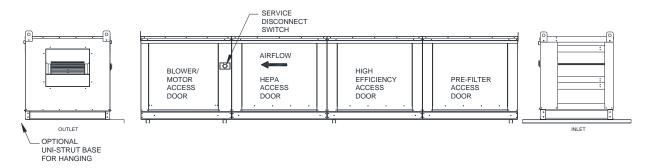
Figure 1



NOTE: For size 7 PCU, use the Auto Draw submittal for rail placement and dimensions.

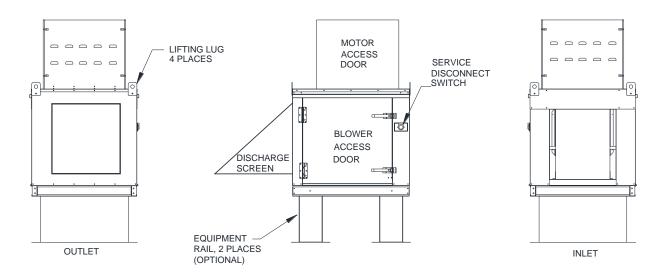
Typical Indoor KB Installation with PCU

Figure 2

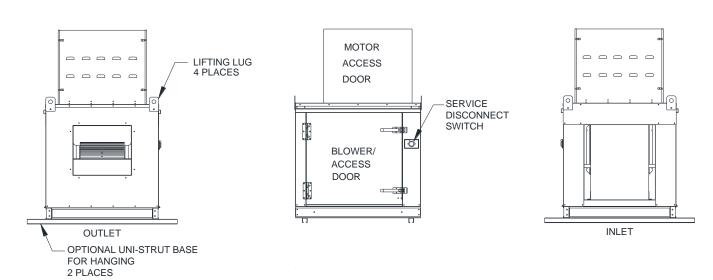


NOTE: For size 7 PCU, use the Auto Draw submittal for placement of uni-strut and dimensions.

Typical Roof Mount KB-INLINE Installation Figure 3



Typical Indoor KB-INLINE Installation Figure 4



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 ordinances 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.

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.

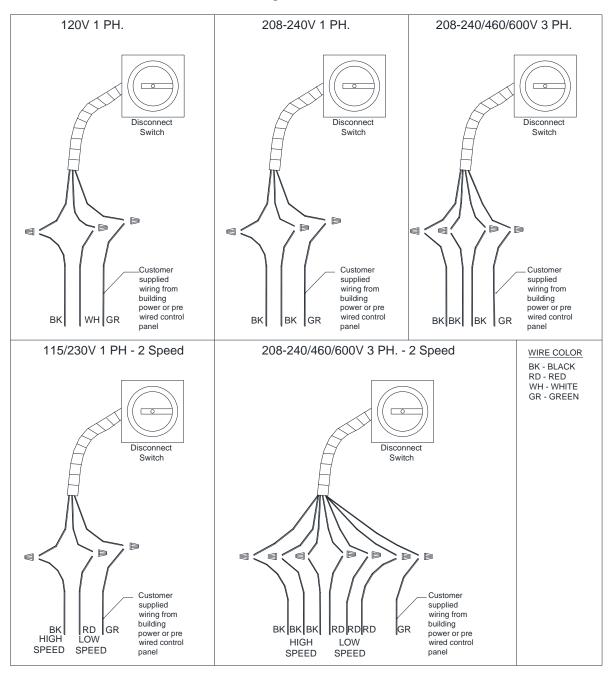
- 1. Always **disconnect power** before working on or near a fan. Lock and tag the disconnect switch or breaker to prevent accidental power up.
- 2. A disconnect switch is shipped with every fan. The switch is located on the exterior of up-blast fans and in the interior of down-blast fans. On down-blast direct drive fans, the disconnect function is built into the speed controller.
- 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 encounter 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.

Wire Size AWG	Maximum Amps
14	20
12	25
10	30
8	40
6	55
4	70

Table 2 - Copper Wire Ampacity

Fan to Building Wiring Connection

Figure 5



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

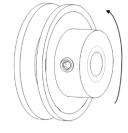
Start Up Procedure

- 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.

Table 3 - Maximum RPM and HP Chart

Blower Size	Maximum RPM	Maximum HP
10"	3600	3
14"	2500	5
18"	2000	7.5
20"	1600	10
25"	1400	15

Figure 6 - Pulley Adjustment Illustration



Decrease Amperage and Blower RPM

Pulley Adjustment (Belt Drive Fans)

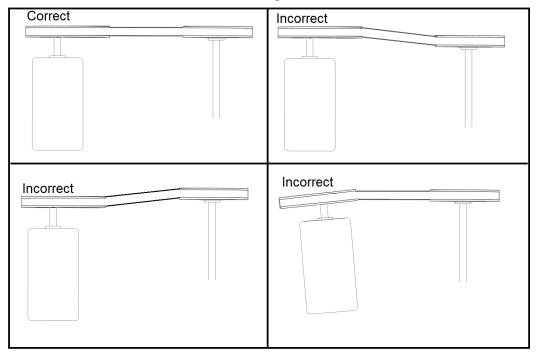
The adjustable motor pulley is factory set for the RPM specified. Speed can be increased by closing or decreased by opening the adjustable motor sheave. Two groove variable pitch pulleys must be adjusted an equal number of turns open or closed. Any increase in speed represents a substantial increase 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.

Table 4 - Pulley Setscrew Torque

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

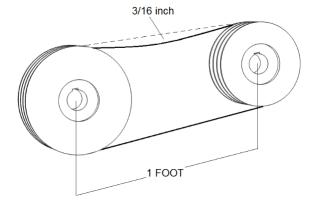
Pulley Alignment

Figure 7



Proper Belt Tension

Figure 8



Pulley Combination Chart for 3600 RPM Motors

		2550												1	
Motor RPM 1/3 to 1-1/	72 HD	3550 MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									-
AX BELTS	ZITF	1VL34	1.9	2.9	2	3									
			Open				TURNS	ON MOTOR	PULLEY				Closed		
BLOWER PUI		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	634	666	697	729	761	792	824	856	888	919	951		
1 /2 42 2 115		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
1/3 to 2 HP AX BELTS		1VL40	2.4	3.4	2.6	3.6									
			Open				TURNS	ON MOTOR	PULLEY				Closed		
BLOWER PUI	LLEY 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	824	856	888	919	951	983	1014	1046	1078	1109	1141		
AK94	9	9.2	1003	1042	1080	1119	1158	1196	1235	1273	1312	1351	1389		
AK79	7.5	7.7	1199	1245	1291	1337	1383	1429	1475	1521	1568	1614	1660		
AK66	6.2	6.4 5.2	1442 1775	1498 1843	1553	1609 1980	1664	1720	1775 2185	1830 2253	1886 2321	1941 2389	1997 2458		
X AK54 AK46	5 4.2	4.4	2098	2178	1912 2259	2340	2048 2420	2116 2501	2582	2663	2743	2824	2905		
. NK30	3.5	3.7	2495	2591	2686	2782	2878	2974	3070	3166	3262	3358	3454		
AK32 AK32 3 to 5 HP BX BELTS	3	3.2	2884	2995	3106	3217	3328	3439	3550	3661	3772	3883	3994		
₽															
≥ 3 to 5 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
BX BELTS		2VP42	2.9	3.9	3	4									
BLOWER PUI	LLEY DATUM DIAMETER	PITCH DIAMETER	Open	F 1/2	-	4.1/2			ON MOTOR		2	1.1/2		1/2	Closed
2BK160H	15.4	15.7	6 678	5 1/2 697	5 716	4 1/2 735	4 754	3 1/2 773	791	2 1/2 810	2 829	1 1/2 848	1 867	1/2 886	90
2BK140H	13.4	13.7	777	799	821	842	864	885	907	929	950	972	993	1015	103
12BK120H	11.4	11.7	910	936	961	986	1011	1037	1062	1087	1113	1138	1163	1188	121
2BK110H	10.4	10.7	995	1023	1051	1078	1106	1134	1161	1189	1217	1244	1272	1299	132
2BK100H	9.4	9.7	1098	1128	1159	1189	1220	1250	1281	1311	1342	1372	1403	1433	146
2BK90H	8.4	8.7	1224	1258	1292	1326	1360	1394	1428	1462	1496	1530	1564	1598	163
2BK80H 2BK70H	7.4 6.4	7.7 6.7	1383 1590	1422 1634	1460 1678	1498 1722	1537 1766	1575 1810	1614 1854	1652 1899	1690 1943	1729 1987	1767 2031	1806 2075	184 211
2BK/0H 2BK60H	5.4	5.7	1868	1920	1972	2024	2076	2128	2180	2232	2284	2336	2387	2439	24
2BK55H	4.9	5.2	2048	2105	2162	2024	2276	2333	2389	2446	2503	2560	2617	2674	27
2BK50H	4.4	4.7	2266	2329	2392	2455	2518	2581	2644	2707	2770	2832	2895	2958	30
5 to 10 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
BX BELTS		2VP60	4.3	5.5	4.7	5.9									
DI OWED DI	LLEY DATUM DIAMETER	DITCH DIAMETED	Open 6	F 1/2	5	41/2	4		ON MOTOR		2	1.1/2	1	1/2	Closed
BLOWER PUI 2BK160H	15.4	PITCH DIAMETER 15.7	1063	5 1/2 1085	1108	4 1/2 1131	1153	3 1/2 1176	3 1198	2 1/2 1221	1244	1 1/2 1266	1289	1/2	133
2BK140H	13.4	13.7	1218	1244	1270	1296	1322	1347	1373	1399	1425	1451	1477	1503	152
2BK120H	11.4	11.7	1426	1456	1487	1517	1547	1578	1608	1638	1669	1699	1729	1760	179
2BK110H	10.4	10.7	1559	1593	1626	1659	1692	1725	1758	1792	1825	1858	1891	1924	195
2BK100H	9.4	9.7	1720	1757	1793	1830	1866	1903	1940	1976	2013	2049	2086	2123	215
2BK90H	8.4	8.7	1918	1959	1999	2040	2081	2122	2163	2203	2244	2285	2326	2367	240
2BK80H	7.4	7.7	2167	2213	2259	2305	2351	2397	2444	2490	2536	2582	2628	2674	272
3 to 5 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
BX BELTS		2VP42	2.9	3.9	3	4									
			Open				ı		ON MOTOR		1		1	1	
BLOWER PUI		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 PUI 2B5V278	27.8	PITCH DIAMETER 28.1	Open 6 379	5 1/2 390	5 400	4 1/2 411	421	3 1/2 432	3 442	2 1/2 453	463	474	1 484	495	0 50
BLOWER PUI 2B5V278 2B5V250	27.8 25	PITCH DIAMETER 28.1 25.3	Open 6 379 421	5 1/2 390 433	5 400 444	4 1/2 411 456	421 468	3 1/2 432 479	3 442 491	2 1/2 453 503	463 514	474 526	538	495 550	50 56
BLOWER PUI 2B5V278	27.8	PITCH DIAMETER 28.1	Open 6 379	5 1/2 390	5 400	4 1/2 411	421	3 1/2 432	3 442	2 1/2 453	463	474		495	50 56 59
BLOWER PUI 2B5V278 2B5V250 2B5V234	27.8 25 23.4	PITCH DIAMETER 28.1 25.3 23.7	Open 6 379 421 449	5 1/2 390 433 462	5 400 444 474	4 1/2 411 456 487	421 468 499	3 1/2 432 479 512	3 442 491 524	2 1/2 453 503 537	463 514 549	474 526 562	538 574	495 550 587	50 56 59 70
BLOWER PUI 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160	27.8 25 23.4 20 18.4 16	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3	Open 6 379 421 449 525 570 653	5 1/2 390 433 462 539 585 672	5 400 444 474 554 601 690	4 1/2 411 456 487 568 617 708	421 468 499 583 633 726	3 1/2 432 479 512 597 649 744	3 442 491 524 612 664 762	2 1/2 453 503 537 627 680 780	463 514 549 641 696 799	474 526 562 656 712 817	538 574 670 728 835	495 550 587 685 744 853	0 50 56 59 70 75 87
BLOWER PUI 285V278 285V250 285V234 285V200 285V184 285V160 285V154	27.8 25 23.4 20 18.4 16 15.4	PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7	Open 6 379 421 449 525 570 653 678	5 1/2 390 433 462 539 585 672 697	5 400 444 474 554 601 690 716	4 1/2 411 456 487 568 617 708 735	421 468 499 583 633 726 754	3 1/2 432 479 512 597 649 744 773	3 442 491 524 612 664 762 791	2 1/2 453 503 537 627 680 780 810	463 514 549 641 696 799 829	474 526 562 656 712 817 848	538 574 670 728 835 867	495 550 587 685 744 853 886	50 56 59 70 75 87
BLOWER PUI 285V278 285V250 285V234 285V200 285V184 285V160 285V154 285V136	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 6 379 421 449 525 570 653 678 826	5 1/2 390 433 462 539 585 672 697 849	5 400 444 474 554 601 690 716 871	4 1/2 411 456 487 568 617 708 735 894	421 468 499 583 633 726 754 917	3 1/2 432 479 512 597 649 744 773 940	3 442 491 524 612 664 762 791 963	2 1/2 453 503 537 627 680 780 810 986	463 514 549 641 696 799 829 1009	474 526 562 656 712 817 848 1032	538 574 670 728 835 867 1055	495 550 587 685 744 853 886 1078	0 50 56 59 70 75 87 90
BLOWER PUI 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V136 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	Open 6 379 421 449 525 570 653 678 826 839	5 1/2 390 433 462 539 585 672 697 849 862	5 400 444 474 554 601 690 716 871 885	4 1/2 411 456 487 568 617 708 735 894 908	421 468 499 583 633 726 754 917 932	3 1/2 432 479 512 597 649 744 773 940	3 442 491 524 612 664 762 791 963 978	2 1/2 453 503 537 627 680 780 810 986 1002	463 514 549 641 696 799 829 1009 1025	474 526 562 656 712 817 848 1032 1048	538 574 670 728 835 867 1055 1072	495 550 587 685 744 853 886 1078 1095	0 50 56 59 70 75 87 90 110
BLOWER PU 285V278 285V250 285V234 285V200 285V184 285V160 285V154 285V136 285V124 285V110	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 6 379 421 449 525 570 653 678 826	5 1/2 390 433 462 539 585 672 697 849	5 400 444 474 554 601 690 716 871	4 1/2 411 456 487 568 617 708 735 894	421 468 499 583 633 726 754 917	3 1/2 432 479 512 597 649 744 773 940	3 442 491 524 612 664 762 791 963	2 1/2 453 503 537 627 680 780 810 986	463 514 549 641 696 799 829 1009	474 526 562 656 712 817 848 1032	538 574 670 728 835 867 1055	495 550 587 685 744 853 886 1078	0 50 56 59 70 75 87 90 110
BLOWER PUI 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V136 2B5V124 2B5V110 Y	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	Open 6 379 421 449 525 570 653 678 826 839	5 1/2 390 433 462 539 585 672 697 849 862	5 400 444 474 554 601 690 716 871 885	4 1/2 411 456 487 568 617 708 735 894 908	421 468 499 583 633 726 754 917 932	3 1/2 432 479 512 597 649 744 773 940	3 442 491 524 612 664 762 791 963 978	2 1/2 453 503 537 627 680 780 810 986 1002	463 514 549 641 696 799 829 1009 1025	474 526 562 656 712 817 848 1032 1048	538 574 670 728 835 867 1055 1072	495 550 587 685 744 853 886 1078 1095	0 50 56 59 70 75 87 90 110
BLOWER PUI 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V160 2B5V154 2B5V136 2B5V124 2B5V110 Y	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	Open 6 379 421 449 525 570 653 678 826 839 942 Dd1 4.3	5 1/2 390 433 462 539 585 672 697 849 862 969	5 400 444 474 554 601 690 716 871 885 995	4 1/2 411 456 487 568 617 708 735 894 908 1021	421 468 499 583 633 726 754 917 932	3 1/2 432 479 512 597 649 744 773 940 955	3 442 491 524 664 762 791 963 978 1100	2 1/2 453 503 537 627 680 780 810 986 1002	463 514 549 641 696 799 829 1009 1025	474 526 562 656 712 817 848 1032 1048	538 574 670 728 835 867 1055 1072	495 550 587 685 744 853 886 1078 1095	0 50 56 59 70 75 87 90 110
BLOWER PUI 2B5V278 2B5V250 2B5V234 2B5V200 2B5V184 2B5V154 2B5V154 2B5V154 2B5V114 2B5V110 BX BELTS	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	Open 6 379 421 449 525 570 653 678 826 839 942 Dd1 4,3 Open	5 1/2 390 433 462 539 585 672 697 849 862 969	5 400 444 474 554 601 690 716 871 885 995	4 1/2 411 456 487 568 617 708 735 894 908 1021	421 468 499 583 633 726 754 917 932 1047	3 1/2 432 479 512 597 649 744 773 940 955 1073	3 442 491 524 612 664 762 791 963 978 1100	2 1/2 453 503 537 627 680 780 810 986 1002 1126	463 514 549 641 696 799 829 1009 1025 1152	474 526 562 656 712 817 848 1032 1048 1178	538 574 670 728 835 867 1055 1072	495 550 587 685 744 853 886 1078 1095 1230	0 50 56 59 70 75 87 90 110 11:
BLOWER PUI 285V278 285V250 285V234 285V230 285V184 285V160 285V154 285V1124 285V110 Y-1/2 to 10 BX BELTS	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	Open 6 379 421 449 525 570 653 678 826 839 942 Dd1 4.3 Open 6	5 1/2 390 433 462 539 585 672 697 849 862 969 Dd2 5.5	5 400 444 474 554 601 716 871 885 995 Pd1 4.7	4 1/2 411 456 487 568 617 708 735 894 908 1021 Pd2 5.9	421 468 499 583 633 726 754 917 932 1047	3 1/2 432 479 512 597 649 744 773 940 955 1073	3 442 491 524 612 664 762 791 963 978 1100	2 1/2 453 503 537 627 680 780 810 986 1002 1126	463 514 549 641 696 799 829 1009 1025 1152	474 526 562 656 712 817 848 1032 1048 1178	538 574 670 728 835 867 1055 1072 1204	495 550 587 685 744 853 886 1078 1095 1230	00 500 566 599 700 759 877 900 111 111 125
BLOWER PUI 285V278 285V250 285V234 285V200 285V124 285V160 285V154 285V124 285	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8	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 6 379 421 449 525 570 653 678 826 839 942 Dd1 483 Open 6 594	5 1/2 390 433 462 539 585 672 697 849 862 969 Dd2 5.5	5 400 444 474 554 601 716 871 885 995 Pd1 4.7	4 1/2 411 456 487 568 617 708 735 894 908 1021 Pd2 5.9	421 468 499 583 633 726 754 917 932 1047	3 1/2 432 479 512 597 649 744 773 940 955 1073	3 442 491 524 612 664 762 791 963 978 1100 ON MOTOR 3	2 1/2 453 503 503 627 680 780 810 986 1002 1126	463 514 549 641 696 799 829 1009 1025 1152	474 526 562 656 712 817 848 1032 1048 1178	538 574 670 728 835 867 1055 1072 1204	495 550 587 685 744 853 886 1078 1230	Close
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BLOWER PUI 285V278 285V250 285V234 285V230 285V160 285V154 285V110 285V124 285V110 38 BELTS BLOWER PUI 285V278 285V250 285V234	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 DATUM DIAMETER 27.8	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 6 379 421 449 525 570 653 678 826 839 942 Dd1 483 Open 6 594	5 1/2 390 433 462 539 585 672 697 849 862 969 Dd2 5.5	5 400 444 474 554 601 716 871 885 995 Pd1 4.7	4 1/2 411 456 487 568 617 708 735 894 908 1021 Pd2 5.9	421 468 499 583 633 726 754 917 932 1047	3 1/2 432 479 512 597 649 744 773 940 955 1073	3 442 491 524 612 664 762 791 963 978 1100 ON MOTOR 3	2 1/2 453 503 503 627 680 780 810 986 1002 1126	463 514 549 641 696 799 829 1009 1025 1152	474 526 562 656 712 817 848 1032 1048 1178	538 574 670 728 835 867 1055 1072 1204	495 550 587 685 744 853 886 1078 1230	Close Close 82 88 88
BLOWER PUI 285V278 285V250 285V234 285V200 285V160 285V154 285V16 285V124 285V16 285V124 285V116 285V124 285V110 385ELTS 385V204 285V204 285V204 285V204 285V204 285V204 285V204	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 THP LLEY DATUM DIAMETER 27.8 25 23.4	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 PITCH DIAMETER 28.1 25.3 23.7	Open 6 379 421 449 525 570 653 678 826 839 942 Dd1 4,3 Open 6 594 659 704	5 1/2 390 433 462 539 585 672 697 862 969 Dd2 5.5 5 1/2 606 674 719	5 400 444 474 554 601 690 716 871 885 995 Pd1 4.7	4 1/2 411 456 487 568 617 708 735 894 908 1021 Pd2 5,9	421 468 499 583 633 726 754 917 932 1047	3 1/2 432 479 512 597 649 774 773 940 955 1073 TURNS 3 1/2 657 730 779	3 442 491 524 612 664 762 791 963 978 1100 ON MOTOR 3 670 744	2 1/2 453 503 503 627 680 780 810 986 1002 1126 PULLEY 2 1/2 682 758 809	463 514 549 641 696 799 829 1009 1025 1152	474 526 562 656 712 817 848 1032 1048 1178 1 1/2 707 786 839	538 574 670 728 835 867 1055 1072 1204	495 550 587 685 744 853 886 1078 1095 1230 1/2 733 814 869	Close (Close 888 888 10
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BLOWER PUI 285V278 285V234 285V200 285V184 285V160 285V154 285V110 7-1/2 to 10 8X BELT'S BLOWER PUI 285V278 285V278 285V278 285V278 285V280 285V184 285V160 285V184 285V160 285V184	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 HP LLEY DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 11 LLEY DATUM DIAMETER 27.8 11 11 11 11 11 11 11 11 11 11 11 11 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 2VP50 PITCH DIAMETER 28.1 25.3 23.7 20.3 18.7 16.3 15.7	Open 6 379 421 449 525 570 653 678 826 826 839 942 Open 6 6 594 659 704 822 892 1024	5 1/2 390 433 462 539 585 672 697 849 862 969 Dd2 5.5 5 1/2 606 674 719 839 911	5 400 444 474 554 601 690 716 871 885 995 Pd1 4.7 5 619 688 734 857 930 1067	4 1/2 411 456 487 568 617 708 735 894 908 1021 242 5,9 4 1/2 632 702 749 874 949 1089	421 468 499 583 633 726 754 917 932 1047 4 644 716 764 892 968 1111 1153	3 1/2 432 479 512 597 649 744 773 940 955 1073 TURNS 3 1/2 657 730 779 909 987 1113	3 442 491 524 612 664 762 791 963 978 1100 ON MOTOR 3 670 744 794 927 1006 1154	2 1/2 453 503 537 627 680 780 810 986 1002 1126 PULLEY 2 1/2 682 758 809 944 1025 1176	463 514 549 641 696 799 829 1009 1025 1152 2 695 772 824 962 1044 1198	474 526 562 656 712 817 848 1032 1048 1178 1 1/2 707 786 839 979 1063 1220 1266	538 574 670 728 835 1075 1072 1204 1 720 800 854 997 1082 1241 1289	495 550 587 685 744 853 886 1078 1230 1/2 733 814 869 1014 1101 1263 1311	Closee: 888.888.8888.88888888888888888888888
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BLOWER PUI 285V278 285V278 285V278 285V234 285V200 285V184 285V160 285V160 285V164 285V160 285V164 285V160 285V160 285V160 285V160 285V160 285V160 285V160 285V264 285V210 285V264 285V210 285V276	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 LLEY DATUM DIAMETER 21.4 11 DATUM DIAMETER 25 23.4 20 18.4 16 15.4 12.6 12.4 11 LLEY DATUM DIAMETER 25 23.4 20 20 20 20 20 20 20 20 20 20 20 20 20	PITCH DIAMETER 28.1 25.3 23.7 16.3 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 21.9 12.7 21.3 18.7 20.3 23.7 20.3 23.7 20.3 23.7 20.3 20.7 20.7 20.8 20.9 20.9 20.9 20.9 20.9 20.9 20.9 20.9	Open 6 379 421 449 525 570 653 678 826 839 942 Dd1 4,3 Open 6 594 822 892 1063 1293 1314 1477 Dd1 5,8 Open 6 783 870 929	5 1/2 390 433 462 539 585 672 849 862 969 Dd2 5,5 5 1/2 606 674 719 839 911 1045 1085 1321 1342 1508 Dd2 796 884 944 944	\$ 400 444 474 554 601 690 716 871 885 995 Pd1 4.7 5619 688 734 857 930 1067 1108 1370 1539 Pd1 6.2	4 1/2 411 456 487 568 617 708 735 894 908 1021 Pd2 5,9 4 1/2 632 702 749 874 949 1131 1376 1398 1571 Pd2 7,4 4 1/2 821 912 974	421 468 499 583 633 726 754 917 932 1047 4 644 716 764 892 968 1111 1153 1426 1602	3 1/2 432 479 512 597 649 744 773 940 955 1073 TURNS 3 1/2 657 730 987 11136 1431 1454 1634 TURNS 3 1/2 846 940 1004	3 442 491 491 524 612 664 762 791 963 978 1100 0N MOTOR 3 670 744 1198 1459 1481 1665 0N MOTOR 3 859 954 1019	2 1/2 453 503 503 537 680 810 986 1002 1126 PULLEY 2 1/2 682 758 809 944 1025 1176 1221 1486 1509 1696	463 514 549 641 696 799 829 1009 1025 1152 2 695 772 824 962 1044 1198 1244 1537 1728	474 526 552 656 6712 817 848 1032 1048 1178 1178 1178 1172 707 786 839 979 1063 1220 1220 1255 1759 11/2 897 996 1044 11/2	538 574 670 728 835 867 1055 1072 1204 1 1 720 800 854 997 1082 1241 1289 1593 1791	495 550 587 685 744 853 886 1078 1095 1230 1/2 733 814 869 1014 1101 1263 1311 1263 1321 1621 1622 1024 1093 127	0 0 500 500 500 500 500 500 500 500 500
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BLOWER PUI 285V278 285V278 285V274 285V204 285V204 285V100 285V1160 285V116	27.8 25 23.4 20 18.4 16 15.4 12.6 12.4 11 HP LLEY DATUM DIAMETER 27.8 25 23.4 20 18.4 16 15.4 21 11 LLEY DATUM DIAMETER 27.8 27.8 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	PITCH DIAMETER 28.1 25.3 20.3 18.7 16.3 15.7 12.9 12.7 11.3 MOTOR PULLEY 2VP50 PITCH DIAMETER 28.1 23.7 20.3 18.7 16.3 23.7 20.3 18.7 11.3 MOTOR PULLEY 2VP50 PITCH DIAMETER 28.1 29.3 19.9 10.7 11.3 PITCH DIAMETER 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3	Open 6 379 421 449 525 570 653 678 826 839 Open 6 594 659 6594 659 1024 1063 1293 1314 147 5.8 Open 6 783 870 929 1084 1177	5 1/2 390 433 462 539 585 672 697 849 862 969 Dd2 55,5 5 1/2 606 674 719 911 1045 1321 1342 1532 1	5 400 444 474 554 601 690 716 871 885 995 Pd1 4.7 5 619 688 734 857 930 1067 1108 1348 1370 155 898 995 995 91119	4 1/2 411 456 487 568 617 708 735 894 1021 Pd2 5.9 4 1/2 632 702 749 1131 1376 1398 1571 Pd2 7.4 4 1/2 821 974 1137	421 468 499 583 633 726 726 727 932 1047 4 644 716 764 892 968 11111 1403 1426 1602	3 1/2 432 439 512 597 649 744 773 940 955 1073 TURNS 3 1/2 657 730 967 1133 1176 1431 1454 1634 TURNS 3 1/2 846 940 1004 1172	3 442 491 524 491 524 662 791 664 762 791 100 61154 1198 1459 1481 1665 0N MOTOR 3 859 954 1019 1189 1291	2 1/2 453 503 503 537 680 780 810 986 1002 1126 PULLEY 2 1/2 682 758 809 944 1025 1176 1221 1486 1509 1696	463 514 549 641 696 799 1009 1025 1152 2 695 772 824 962 1049 1154 1514 1537 1728	474 526 562 656 712 817 848 1032 1048 1178 1	538 574 670 728 835 867 1072 1204 1 720 800 854 997 1082 1241 1289 1569 1593 1791	495 550 587 685 744 853 886 1078 1095 1230 1/2 733 814 869 1014 1101 1263 1311 1596 1621 1622 172 172 173 184 185 185 185 185 185 185 185 185	5000 5000 5000 5000 5000 5000 5000 500

Pulley Combination Chart for 1800 RPM Motors

	Motor RPM		1725	FAN PUL		111111111111										
	1/3 to 1-1/2 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
	AX BELTS		1VL34	1.9	2.9	2	3									
				Open				TURNS C	OTOM NO	R PULLE	Υ			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		
	AK66	6.2	6.4	539	566	593	620	647	674	701	728	755	782	809		-
	AK54	5	5.2	663	697	730	763	796	829	863	896	929	962	995		+
	AK46	4.2	4.4	784	823	863	902	941	980	1019	1059	1098	1137	1176		_
	AK39	3.5	3.7	932	979	1026	1072	1119	1166	1212	1259	1305	1352	1399		-
	AK32	3	3.2	1078	1132	1186	1240	1294	1348	1402	1455	1509	1563	1617		+
	1/3 to 2 HP AX BELTS		MOTOR PULLEY 1VP50	Dd1 3.4	Dd2 4.4	Pd1 3.6	Pd2 4.6									
	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		
	AK32H	3	3.2	1941	1995	2048	2102	2156	2210	2264	2318	2372	2426	2480		+
,	2.4- E.U.D.		MOTOR BUILTY	Deld	D-10	Dald	Pd2									
	3 to 5 HP BX BELTS		MOTOR PULLEY 2VP42	Dd1 2.9	Dd2 3.9	Pd1 3	4									
>	BLOWER PULLEY	DATUM DIAMETER	DECLIDIAMETER	Open	5.4/D	-	4.4/0		TURNS C				4.4/0	- 4	4/0	Ck
י	2BK90H	8.4	PITCH DIAMETER	6 595	5 1/2 611	5 628	4 1/2 644	4 661	3 1/2 677	3 694	2 1/2 710	727	1 1/2 744	760	1/2 777	+
7	2BK80H	7.4	8.7 7.7	672	691	709	728	747	765	784	803	821	840	859	877	
	2BK70H	6.4	6.7	772	794	815	837	858	880	901	923	944	965	987	1008	1
į	2BK60H	5.4	5.7	908	933	958	984	1009	1034	1059	1084	1110	1135	1160	1185	1
_	2BK55H	4.9	5.2	995	1023	1050	1078	1106	1133	1161	1189	1216	1244	1272	1299	1
7	2BK50H	4.4	4.7	1101	1132	1162	1193	1223	1254	1285	1315	1346	1376	1407	1438	1
	2BK45H	3.9	4.2	1232	1266	1301	1335	1369	1403	1438	1472	1506	1540	1574	1609	1
>	2BK40H	3.6	3.9	1327	1364	1401	1438	1474	1511	1548	1585	1622	1659	1696	1732	1
-	2BK36H	3.4	3.7	1399	1438	1476	1515	1554	1593	1632	1671	1709	1748	1787	1826	1
	5 to 10 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
	BX BELTS		2VP60	4.3 Open	5.5	4.7	5.9	_	TURNS C	N MOTO	R PULLE	Y				CI
	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	Ţ,
	2BK120H	11.4	11.7	693	708	722	737	752	767	781	796	811	826	840	855	
	2BK110H	10.4	10.7	758	774	790	806	822	838	854	871	887	903	919	935	
	2BK100H	9.4	9.7	836	854	871	889	907	925	943	960	978	996	1014	1031	1
	2BK90H	8.4	8.7	932	952	972	991	1011	1031	1051	1071	1091	1110	1130	1150	1
	2BK80H	7.4	7.7	1053	1075	1098	1120	1143	1165	1187	1210	1232	1255	1277	1299	1
	2BK70H	6.4	6.7	1210	1236	1262	1287	1313	1339	1365	1390	1416	1442	1468	1493	1
	2BK60H	5.4	5.7	1422	1453	1483	1513	1543	1574	1604	1634	1664	1695	1725	1755	1
	2BK55H	4.9	5.2	1559	1592	1625	1659	1692	1725	1758	1791	1825	1858	1891	1924	1
	2BK45H	3.9	4.2	1930	1971	2013	2054	2095	2136	2177	2218	2259	2300	2341	2382	2
	3 to 5 HP BX BELTS		MOTOR PULLEY 2VP42	Dd1 2.9	Dd2 3.9	Pd1 3	Pd2 4									
	BX BELIS		27742	Open	3.9	3	4	_	TURNS C	N MOTO	R PULLE	Υ				Ck
	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	
	2B5V160	16	16.3	317	326	335	344	353	362	370	379	388	397	406	414	
	2B5V154	15.4	15.7	330	339	348	357	366	375	385	394	403	412	421	430	
	2B5V136	12.6	12.9	401	412	423	435	446	457	468	479	490	501	513	524	
	2B5V124	12.4	12.7	407	419	430	441	453	464	475	487	498	509	521	532	
	2B5V110	11	11.3	458	471	483	496	509	522	534	547	560	572	585	598	
	2B5V94	9.4	9.7	534	548	563	578	593	608	622	637	652	667	682	697	
	2B5V74	7.4	7.7	672	691	709	728	747	765	784 929	803 951	821	995	859	877	
	2B5V62	6.2	6.5	796	818	840	863	885	907	929	951	973	995	1017	1039	1
	7-1/2 to 10 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
	BX BELTS		2VP60	4.3 Open	5.5	4.7	5.9	-	TURNS C	N MOTO	R PULLE	Y				Cle
	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	
_	2B5V250	25	25.3	320	327	334	341	348	355	361	368	375	382	389	395	
-	2B5V234	23.4	23.7	342	349	357	364	371	378	386	393	400	408	415	422	
, , ,	2B5V200	20	20.3	399	408	416	425	433	442	450	459	467	476	484	493	- :
>	2B5V184	18.4	18.7	434	443	452	461	470 540	480	489	498	507	517	526	535	
ָי	2B5V160 2B5V154	16 15.4	16.3	497 516	508 527	519 538	529 549	540 560	550 571	561 582	571 593	582 604	593 615	603 626	614 637	
7	2B5V154 2B5V136	15.4 12.6	15.7 12.9	628	642	655	669	682	571 695	709	722	735	749	762	776	1
-																
Ž	2B5V124	12.4	12.7	638	652	666	679	693	706	720	733	747	761	774	788	
-	2B5V110 2B5V94	11 9.4	11.3 9.7	717 836	733 854	748 871	763 889	779 907	794 925	809	824 960	978	855 996	870 1014	885 1031	1
3	2B5V94 2B5V74	9.4 7.4	9.7	1053	1075	1098	1120	1143	1165	943 1187	1210	1232	1255	1014	1299	1
•	2B5V64	6.4	6.7	1210	1236	1262	1287	1313	1339	1365	1390	1416	1442	1468	1493	1
	15 to 20 HP		MOTOR PULLEY	Dd1	Dd2	Pd1	Pd2									
	BX BELTS		2VP75	5.8	7	6.2	7.4		TUDI : 2		D DI					
	BLOWER PULLEY	DATUM DIAMETER	PITCH DIAMETER	Open 6	5 1/2	5	4 1/2	4	TURNS C	N MOTO	R PULLE 2 1/2	Y 2	1 1/2	1	1/2	CI
	2B5V278	27.8	28.1	381	387	393	399	405	411	417	424	430	436	442	448	
	2B5V250	25	25.3	423	430	436	443	450	457	464	470	477	484	491	498	
	2B5V234	23.4	23.7	451	459	466	473	480	488	495	502	509	517	524	531	
	2B5V200	20	20.3	527	535	544	552	561	569	578	586	595	603	612	620	
	2B5V184	18.4	18.7	572	581	590	600	609	618	627	636	646	655	664	673	
	2B5V160	16	16.3	656	667	677	688	698	709	720	730	741	751	762	773	4
	2B5V154	15.4	15.7	681	692	703	714	725	736	747	758	769	780	791	802	-
	2B5V136	12.6	12.9	829	842	856	869	883	896	909	923	936	949	963	976	
	2B5V124	12.4	12.7	842	856	869	883	896	910	924	937	951	964	978	992	1
	2B5V110	11	11.3	946	962 1120	977 1138	992 1156	1008 1174	1023 1191	1038 1209	1053 1227	1069 1245	1084 1263	1099 1280	1114 1298	1
	2B5V94 2B5V74	9.4 7.4	9.7 7.7	1103 1389	1411	1434	1456	1479	1501	1523	1546	1568	1591	1613	1635	1

Pulley Combination Chart for 25/30/40 HP Motors (Triple Groove Fixed Speed pulleys) Table 5

Blower Pulley	Motor Pulley	RPM
3B5V184	3B5V68	628
3B5V160	3B5V68	721
3B5V154	3B5V68	748
3B5V136	3B5V68	845
3B5V124	3B5V68	925
3B5V94	3B5V68	1211
3B5V90	3B5V68	1263
3B5V86	3B5V68	1320

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

Troubleshooting Chart

Problem	Potential Cause	Corrective Action			
Fan Inoperative	Blown fuse or open circuit breaker	Replace fuse or reset circuit			
		breaker and check amps			
	Disconnect switch in "Off" position	Turn to "On" position			
	Motor wired incorrectly	Check motor wiring to wiring			
		diagram located on fan motor			
	Broken fan belt	Replace belt			
	Motor starter overloaded	Reset starter and check amps			
Motor Overload	Fan rotating in the wrong direction	Be sure fan is rotating in the			
		direction shown on rotation label			
	Fan speed is too high	Reduce fan RPM			
	Motor wired incorrectly	Check motor wiring to wiring			
		diagram located on fan motor			
	Overload in starter set too low	Set overload to motor FLA value			
	Motor HP too low	Determine if HP is sufficient for job			
	Duct static pressure lower than design	Reduce fan RPM			
Insufficient Airflow	Fan rotating in the wrong direction	Be sure fan is rotating in the			
		direction shown on rotation label			
	Poor 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 design	Reduce fan RPM			
Excessive Vibration and Noise	Misaligned pulleys	Align pulleys			
	Damaged or unbalanced wheel	Replace wheel			
	Fan is operating in the unstable region	Refer to performance curve for fan			
	of the fan curve				
	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			
Smoke/Odor leaking from PCU	KB installed before PCU	Reattach KB fan to end of PCU.			

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 there are grease fittings, lubricate each season. Use caution when lubricating bearings. Wipe the fittings clean, the unit should be rotated by hand while lubricating. When a KB-Inline fan operates above 300° F for long periods of time, bearings will require more frequent maintenance. Caution: Use care when touching the exterior of an operating motor. Motors normally run hot and may be hot enough to cause severe burns or cause injury.
- 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.

2 weeks after startup

- 1. Belt tension should be checked after the first 2 weeks of fan operation. Belts tend to stretch and settle into pulleys after an initial start-up sequence. **Do not tension belts by changing the setting of the motor pulley**, this will change the fan speed and may damage the motor. To re-tension belts, turn the power to the fan motor OFF.
- 2. 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.
- 3. All fasteners should be checked for tightness each time maintenance checks are preformed prior to restarting unit.

Every 3 months

- 1. Inspect the entire unit and exhaust system.
- 2. Belt tension should be checked quarterly. See instructions in the previous maintenance section. Over-tightening will cause excessive bearing wear and noise. Too little tension will cause slippage at startup and uneven wear.
- 3. Fans need to be cleaned quarterly, and more often in severe conditions. **Take precautionary** measures when power washing the unit as this will damage the insulation.
- 4. Place a tarp over blower insulation and motor to prevent damage during cleaning. Remove all tarps from the unit after cleaning is completed.

Yearly

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

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

Job Information

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

Fan Unit Information

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

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

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

Maintenance Record

Date	Service Performed

Factory Service Department

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