

Paxton PX Series

Models PX500, PX750, PX1000,
PX1500, PX1550, PX2000



Installation & Operation / Service & Maintenance Manual

Original Instructions

Please read this manual BEFORE installing your Blower or Air Knife System

RETAIN FOR FUTURE REFERENCE

SAFETY PRECAUTIONS

Paxton Centrifugal Blowers are for pumping air only (no other medium allowed) and are only to be used with an air filter fitted.



➤ **Read the instructions:** refer to the instructions before installation, first use, cleaning and maintenance. Ensure that the instructions are available for all users and retain them for future reference.



➤ **Wear ear protection:** noise levels >80dB(A) at the pump. Always wear hearing protection when working near operating blowers.



➤ **Severing/Entanglement hazard:** due to the rotating impellor - keep fingers away from the pump inlet/outlet areas.



SAFETY PRECAUTIONS

Safety First! When installing, operating, or servicing the equipment, always use proper safety procedures in accordance with Federal, State and Local laws and regulations. To avoid injury to yourself, others, or damage to the equipment, adhere to the following safety practices.

➤ **Always use qualified personnel and electricians** for installation, maintenance and servicing of all Paxton blowers and motors. Electrical connections, servicing and maintenance should be performed only by properly trained, certified and licensed electricians. Operating a blower without proper grounding could result in personal injury or death.

➤ **Always disconnect/isolate the electrical power to the motor** before working on the motor and/or blower assembly. Observe proper lockout/tagout procedures.

➤ **Always wear safety glasses** while working on any Paxton blower assembly.

➤ **Do not operate** the motor/blower assembly without the belt guard properly installed, or with the blower inlet unprotected by a filter element assembly.

➤ **Do not operate** the motor/blower assembly with the discharge outlet open. Always connect the outlet to the system piping or Paxton control valves. Failure to operate blowers under a working load could result in high current draw, damaging the motor and electrical systems.

➤ **Always** keep hands, tools, long hair, loose clothing, neckties, jewelry or similar loose items away from all moving or rotating parts.

➤ **Use caution** around all water-cooled units; the blower head assemblies operate at high temperatures, causing the outer surfaces to be dangerous to the touch.

➤ **Always** install motor current protectors (for 3-phase units), circuit breakers or fuses for line protection. Devices should be sized per motor nameplate data.

➤ **For** electric motor and inverter operation refer to manufacturer's instructions.

WELCOME TO PAXTON PRODUCTS!

Paxton Products has been manufacturing high efficiency centrifugal blowers for nearly 60 years. A Paxton Air System delivers superior drying and blow off performance while conserving energy by coupling high-efficiency centrifugal blowers with Paxton's custom-engineered air delivery devices.

To ensure peak performance of your new Paxton System, please read and follow all installation and operation procedures carefully.

EQUIPMENT ARRIVAL AND INSPECTION

When the shipment arrives, open the crate and inspect the contents. Check the packing list to confirm that all equipment and parts have been received. If any equipment or parts are damaged or missing, you must make a claim with the freight carrier.



Notify Paxton Products of any damages or missing components immediately. We will assist in getting replacement components or parts to you as quickly as possible. **All claims must be made within 10 days of receipt.**



Contact Customer Service at +44 1473 320 307 or by email at info@solvair.co.uk

Care should be exercised when moving the crate, to ensure that nothing is dropped or damaged.

TOOLS NEEDED FOR INSTALLATION

- 5/16" nut driver
- Phillips head screwdriver
- T27 Torx driver
- T40 Torx driver
- 9/16" socket
- Flat head screwdriver
- 5/16" hex key
- 1/4" hex wrench

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BLOWER INSTALLATION PROCEDURES (WHEN NO BLOWER ENCLOSURE IS USED)

1. Determine where to position the blower.



i A PX-series blower weighs from 64–186 kg (140–410 pounds), depending on the motor size.

i The blower will be bolted to a pallet, then boxed for shipment.

2. Unbox the blower and accessories. Unbolt the blower from the pallet.

i **Tips for blower positioning:**

- a. Position the blower as close as possible to the target. The length of piping from the blower outlet to the air delivery devices should be minimized.
- b. If the blower will be placed more than 3m but less than 15m from the target, 100mm solid PVC piping should be used. If the blower will be placed more than 15m feet from the target, 150mm solid PVC piping must be used AND the blower performance may be degraded. Refer to Piping Engineering Bulletin at www.solvair.co.uk/px for more guidelines.
- c. Minimize turns in the piping from the blower to the target. When turns are required, use long sweep elbows.

Request the SolvAir engineering bulletin on piping for more information on piping pressure losses.



Blower must not be placed in ozone-present environments traditionally found in water filling rooms, as ozone compromises the integrity of the belt, resulting in premature failure.

3. Using a hoist or crane, lift the blower into position using the two lifting eyes on the motor.

i A PX-series blower weighs from 64–186 kg (140–410 pounds), depending on the motor size.

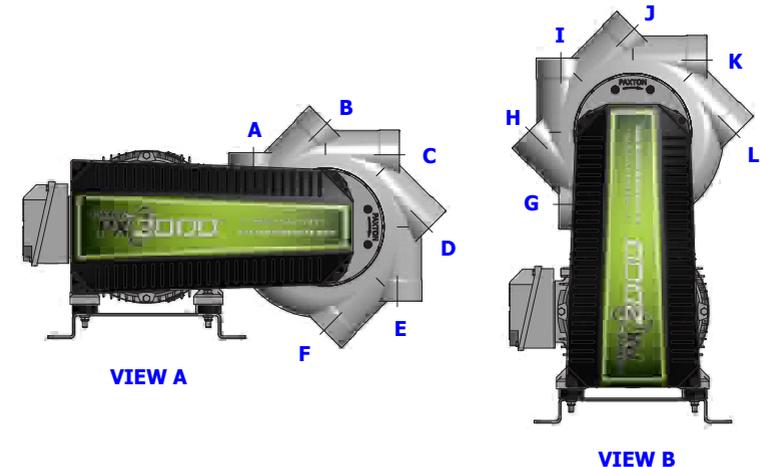


4. Mount the blower on a solid flat surface or blower stand. Tighten all mounting bolts and hardware securely.



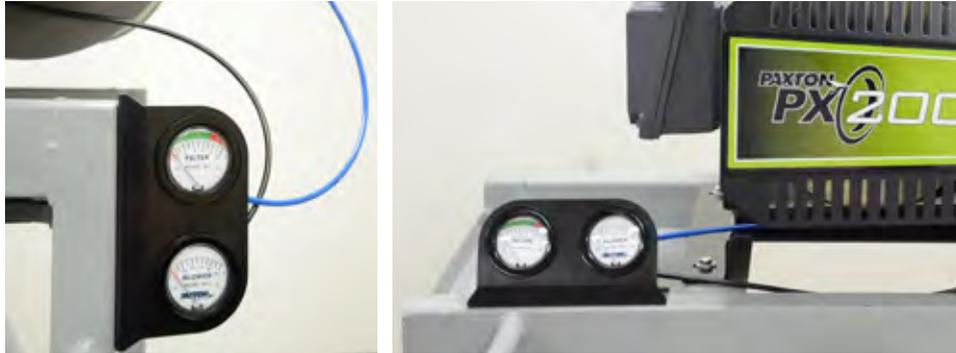
i The use of isolation pads under the motor plate is recommended. If needed, order **part # 8005063** from SolvAir Customer Service at **+44 1473 320 307**.

5. If you need to change the blower outlet direction, please refer to the instructions on page 13.



6. Connect pressure gauges.

The PX-series blowers come equipped with a pressure gauge kit, with one gauge to measure the output pressure of the blower, and one gauge to measure the pressure drop across the filter.



- Mount the pressure gauges where they can be easily seen by operators and maintenance staff, ideally within a few feet of the blower.

i

The pressure gauges can be swiveled in the bracket, so they can be mounted either vertically or horizontally.



- Connect black hose to the pressure gauge labeled blower, then cut to length and connect the other end to the port on the blower outlet.



- Connect the blue hose to the pressure gauge labeled filter, then cut to length and connect the other end to the port on the filter housing.



7. Make electrical connections to the motor.

- Switch off and disconnect electricity at the circuit.
- Follow the wiring diagram on the motor nameplate or the motor manufacturers original instructions to connect to either the power supply or the variable frequency drive (VFD).



- Ensure that all electrical connections are tight and well insulated to protect against moisture.

i

Refer to the motor nameplate for power supply requirements.
VFDs purchased from SolvAir will be pre-programmed for use with your blower.



Follow proper lockout/tagout procedures to ensure that the power cannot be turned on while you are working on the motor.
Be sure to ground the motor.

8. Check the rotation.

- After making the electrical connections, proper electrical phase rotation must be determined.
- Bump start (turn on then immediately turn off) the motor to observe the rotation of the motor fins to ensure that it is counterclockwise when facing the far side of the motor. Do NOT remove the belt guard to determine rotation. Note the rotation labels on the blower and motor.

i

If wired improperly and running backwards, the amp draw of the motor will be 80% of the nameplate amp draw, and the blower output pressure will be about 40% of normal. The scroll will be very hot, about 10°C higher than ambient, and about 4°C higher when compared to operating in the forward direction.

Blower rear view, with inlet air filter removed



WARNING! IMPELLER HAZARD DURING ROTATION CHECK.



Failure to determine proper phase rotation WILL cause severe damage to the blower. Note that backwards rotation will still generate some airflow, but not at the desired levels.

If re-wiring to change the phase rotation is required, be sure to unplug, and lockout/tagout the system before proceeding with the wiring.

INSTALLATION OF THE OUTLET AIR FILTER

While inlet air filtration is required on Paxton Air Systems, Paxton also offers HEPA-quality outlet air filtration as an option for critical applications.

Outlet filtration housings are sized to minimize pressure drops across the filter, to maintain system pressures at the target, thus ensuring the highest quality blow off, drying or rinsing.

The outlet air filter comes pre-installed in the filter housing.

1. The outlet filtration housing should be installed within 3 metres (10 feet) of the blower, using the flexible hose provided.

Install one end of the hose to the blower or blower enclosure outlet; and the other end to the inlet of the filter housing.

i

The inlet to the filter housing can be identified using the directional arrow on the filter housing.

2. Connect hose or pipe to filter housing outlet. Flexible hose can be used if the distance to the air delivery devices is less than 3 metres (10 feet). If distance is greater than 3 metres (10 feet), use PVC piping.





3. For air flows greater than 1000 cfm, two outlet air filters will be required, putting 50% of the air through each filter using the configuration shown here.

4. The outlet air filtration housing comes equipped with a filter gauge for monitoring the pressure drop across the filter.



The gauge must be zeroed at startup. To zero, start the system and allow it to reach target flow rate (10–30 minutes). With the clean filter installed, and using a small flat head screw driver, adjust the gauge to read “0” cm of water column.



New filters can be ordered by calling **+44 1473 320 307** or sending an email to **info@solvair.co.uk**

5. The filter should be changed when the pressure drop approaches 250mm of water column, i.e. when the gauge indicator reaches the red zone.

CHANGING THE BLOWER OUTLET DIRECTION

TOOLS NEEDED FOR INSTALLATION

- T27 Torx driver
- 5/16" hex key
- T40 Torx driver
- 1/4" hex wrench

1. Disconnect power to blower.



Follow proper lockout/tagout procedures to ensure that the power cannot be turned on while you are working on the blower.



2. Remove belt guard by loosening 4 screws using T27 Torx. Place belt guard aside.



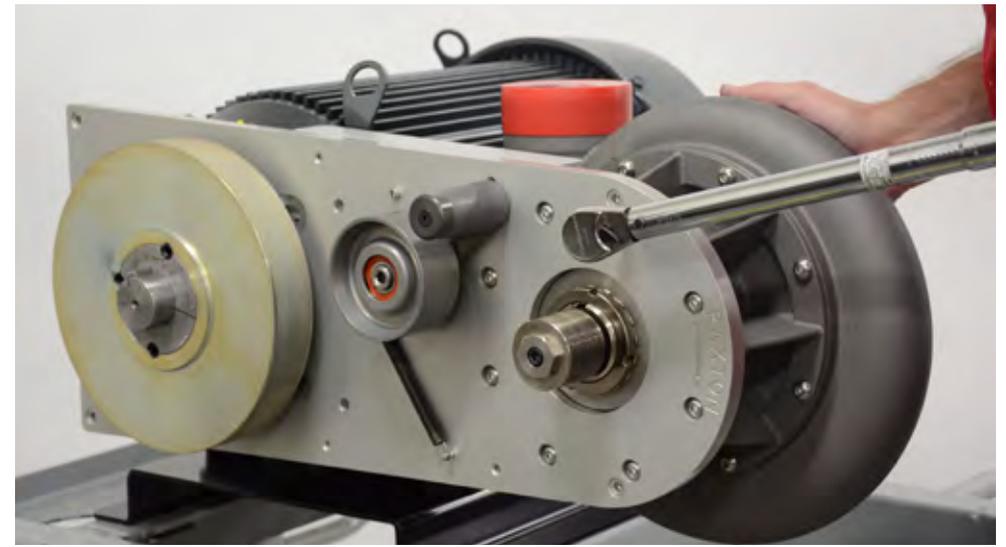
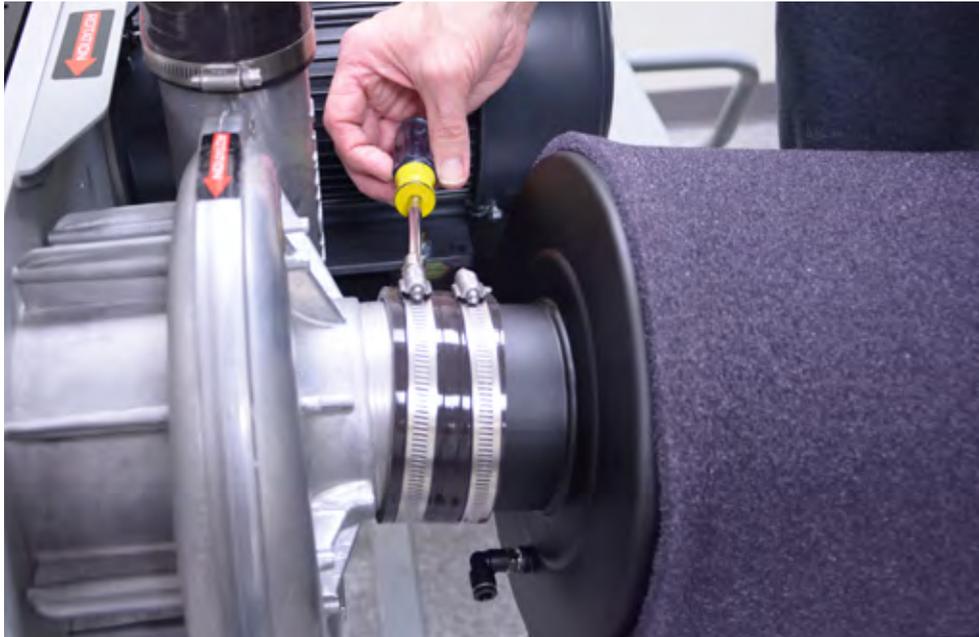
3. Using 5/16" hex key, loosen tensioner by rotating up/clockwise to release tension on belt.

4. Slip belt off beginning at blower pulley, then unwrapping from the motor pulley. Place belt aside.

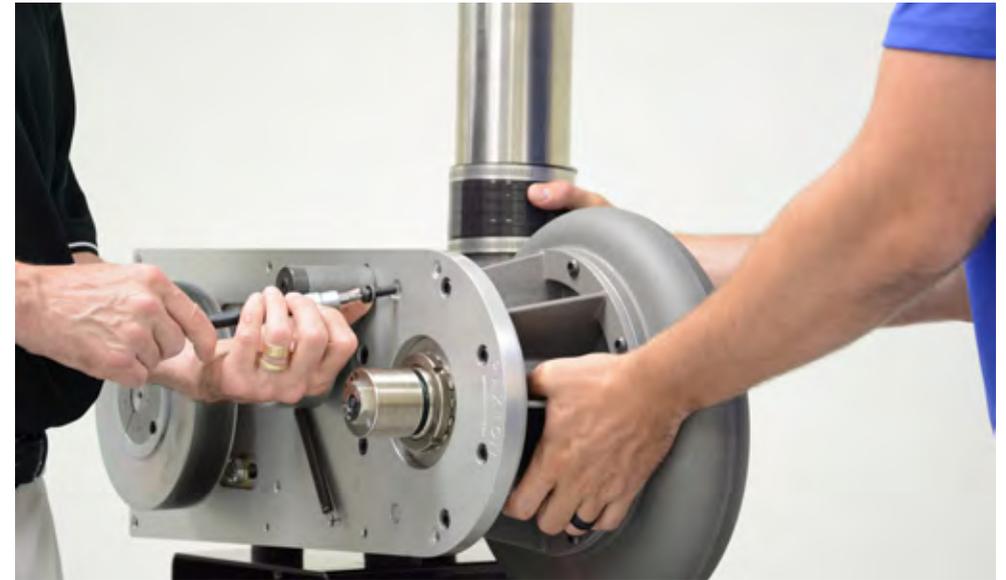
5. Disconnect pressure fittings on blower head and filter housing by pushing the small ring in while pulling the hose outlet.



6. Remove the filter housing by loosening the screw on the clamp, then lifting the filter housing off. Place aside.



7. Using T40 Torx, loosen 8 bolts around the blower pulley that hold the blower head in place.



8. Using one person to steady the blower head and another to loosen the bolts, remove all 8 bolts.



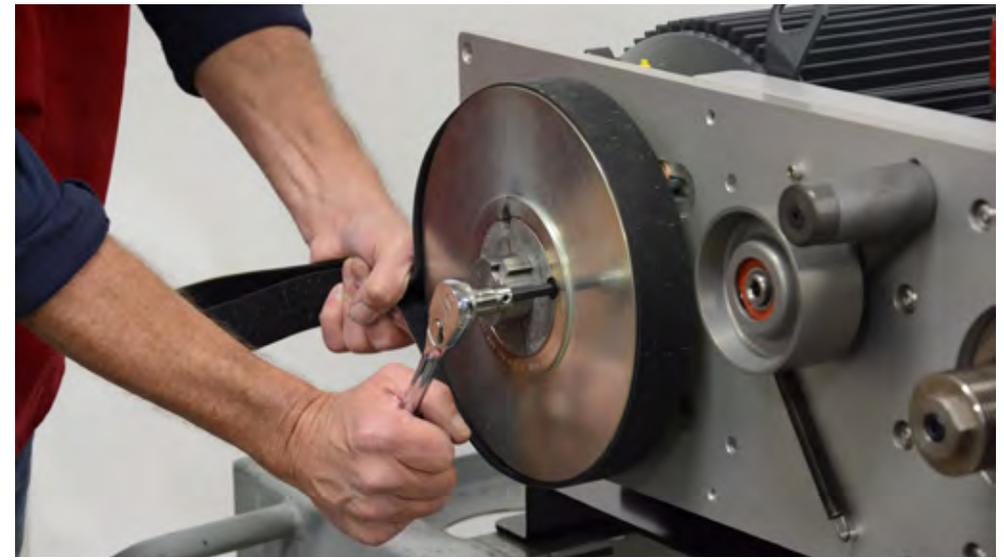
Due to the weight of the blower head, the use of two people is recommended to prevent damage to the blower head and pulley.



9. Rotate the blower head to the desired outlet position.
10. Reinstall eight bolts and finger tighten, supporting the blower head on the other side of the plate.



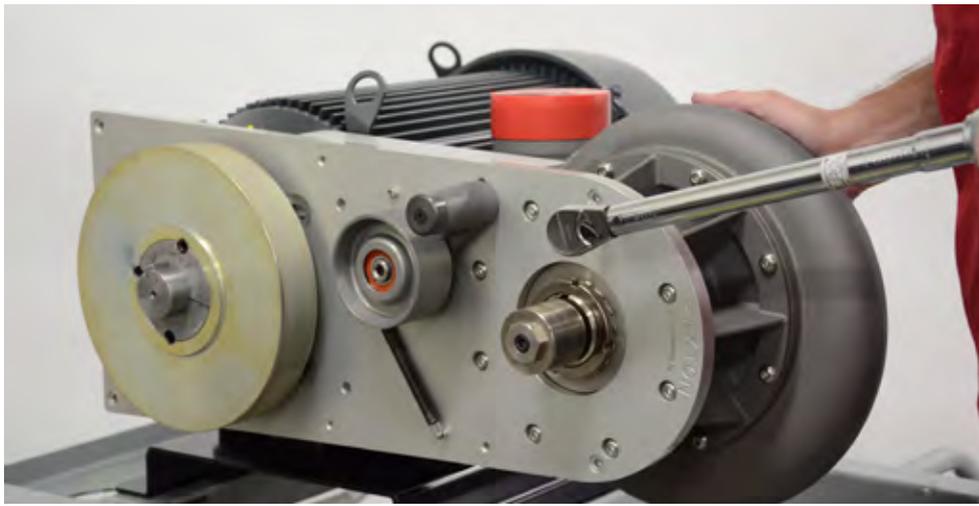
11. Check pulley alignment by using a straight edge to ensure motor pulley and blower pulley are flush to +/- 0.5mm (0.02").



12. If not aligned, the motor pulley can be adjusted using a 1/4" hex wrench. Loosen both bolts, then remove one of the two 2 bolts on motor pulley. (A belt can be used to hold the motor pulley while loosening the bolt.)



13. Using the removed bolt, put into the hole at 90 deg and tighten. When tightening the bolt into this third hole, the motor pulley will loosen so that it can be slid in or out on the shaft to cause alignment. The motor pulley should be aligned to the chamfer of the blower pulley, because tightening of the motor pulley again will draw the motor pulley out slightly, thus coming into alignment with the blower pulley.
14. Once aligned with straight edge, back the bolt out from the third hole in the motor pulley and put back into the first hole. Torque, to 34 Nm (25 ft-lbs), then recheck alignment again. Repeat adjustment if needed.



15. Tighten blower head bolts to 14 Nm (10 ft-lbs) of torque.

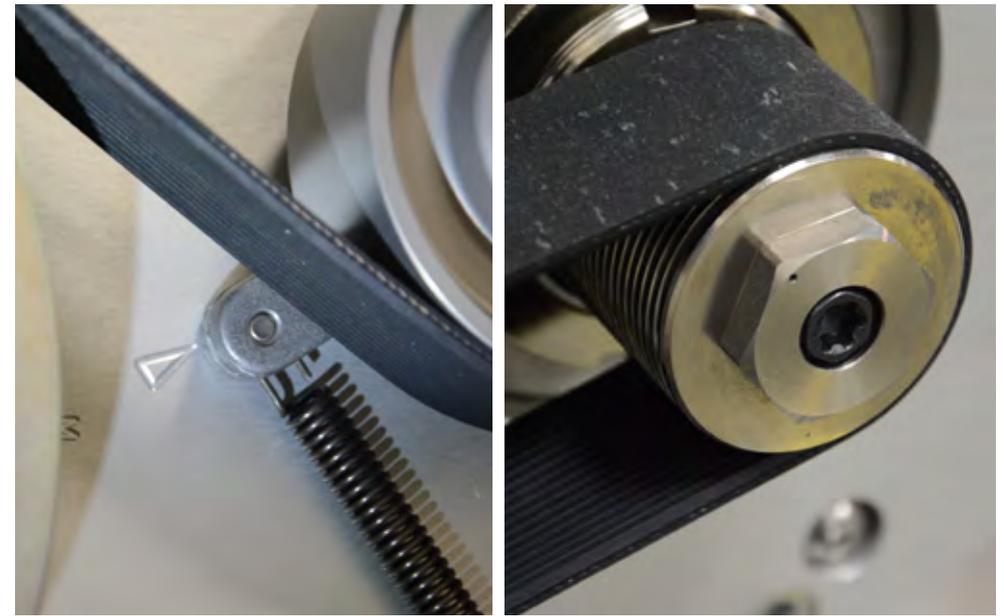


Be careful not to damage the blower pulley while tightening bolts.

16. Reinstall belt by wrapping the belt around the motor pulley and pulling upward toward the blower pulley. Ensure that the rotation arrow on the belt matches the rotation arrow on the blower plate.



17. Using one hand to hold the belt and one to release the tension on the tensioner, wrap belt around the blower pulley ensuring that the grooves are aligned.

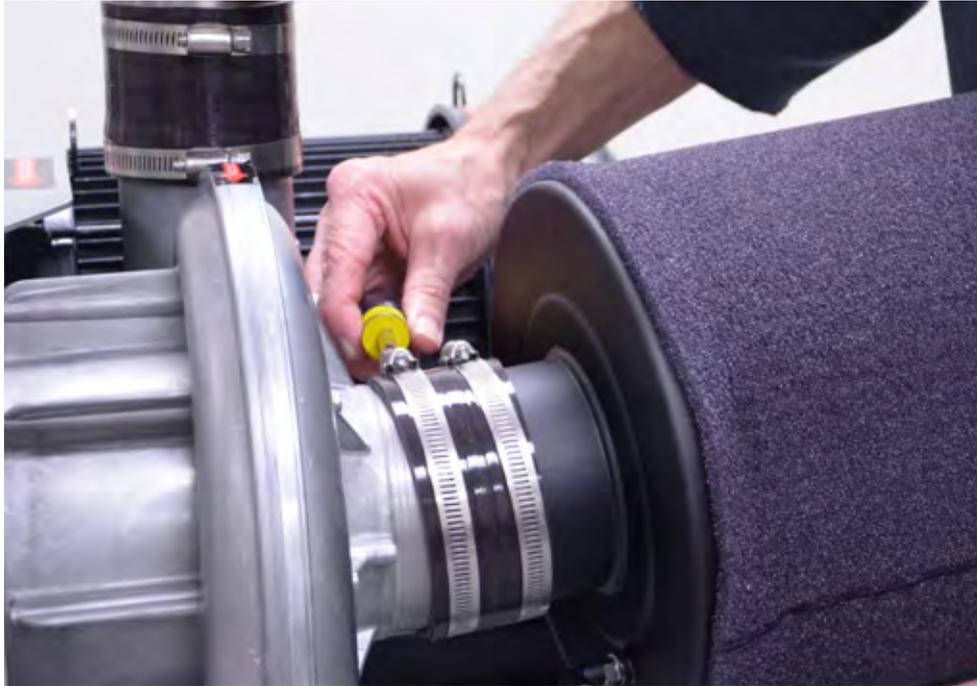


18. Verify that the grooves in the belt are aligned with the grooves on the motor and blower pulleys by manually turning the belt clockwise. Verify that the arrow on the motorplate is aligned with the idler pin.



19. Replace belt guard.

20. Reinstall filter and housing.



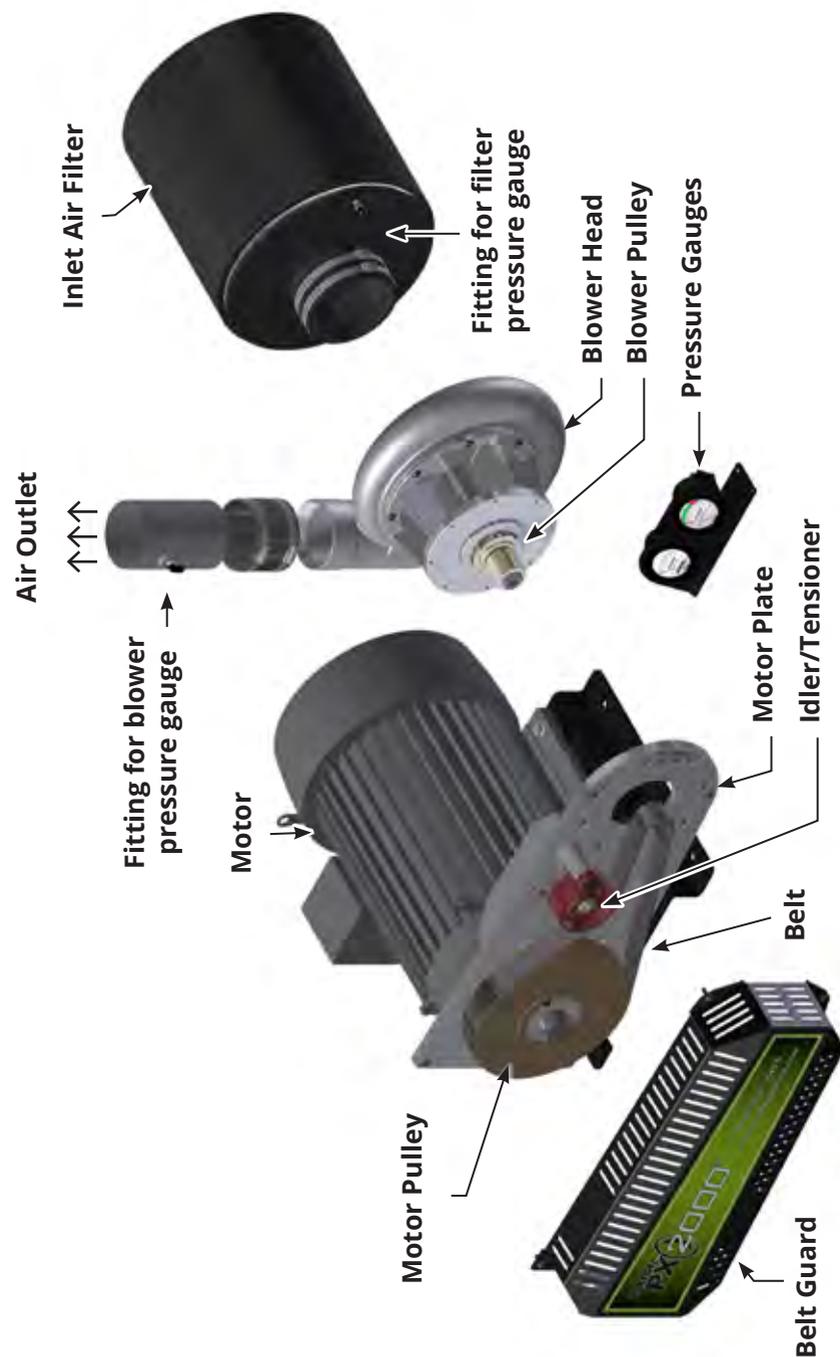
21. Reinstall hoses to blower pressure port and filter pressure port.



MAINTENANCE GUIDELINES

In order to maintain the blower warranty, it is necessary to use genuine Paxton replacement parts replaced at the minimum frequency prescribed below.

Paxton part	1 or 2 shifts/day operation	3 shifts/day operation
Belts	12 months	6 months or 4000 hours
Belt Springs	12 months	6 months or 4000 hours
Tensioners	24 months	12 months
Filters	Filters must be changed as often as needed to maintain blower or system performance as measured by increased pressure drop across the filter. The filter must be changed if the pressure drop exceeds 10" of water column. Filter change frequency will vary widely based on environmental and atmospheric conditions. Minimum recommended filter change frequency is every 12 months for 1 or 2 shift/day operation; and every 6 months for 3 shift/day operation.	



GETTING TO KNOW YOUR BLOWER

A blower is a popular method for pumping air for industrial applications. Blowers use centrifugal force to aid the pumping. Your new Paxton ultra high efficiency centrifugal blower consists of the following key components:

- 1. Motor**
- 2. Belt Drive Assembly**
 - a. Motor Plate
 - b. Motor Pulley
 - c. Blower Pulley
 - d. Idler/Tensioner
 - e. Belt
 - f. Belt Guard
- 3. Blower Head**
 - a. Bearing carrier with ABEC-7 bearings
 - b. Scroll
 - c. Impeller (inside the scroll)
 - d. Outlet Air Pressure Port
- 4. Inlet Air Filter with Pressure Port**
- 5. Pressure Gauge Kit with Filter Gauge and Blower Gauge**

HOW THE BLOWER WORKS

An electric motor spins at about 3500 rpm, and through the blower's belt and pulley system, it causes the impeller to spin at 11,500–18,000 rpm. Room air is drawn into the blower through the inlet air filter. The inlet air comes into contact with the spinning impeller, accelerating the air. The accelerated air exits the blower at high velocity and pressures of 75–250 mbar (30–80 inches of water). The accelerated air is discharged into the piping system as it travels to the air delivery devices.



The blower must not be used without an inlet air filter, as the incursion of dust or dirt into the blower will damage the impeller and void the warranty.

STARTING AND STOPPING

Blower performance over the long term is maximized by minimizing starts and stops. If your application requires frequent starts and stops, the installation of a variable frequency drive (preferred) or soft start system is highly recommended to reduce the initial start up torque. This is particularly critical for larger horsepower models.



Do not start and stop the blower more than 6 cycles per hour, without the use of a variable frequency drive.

BLOWER OPERATION AND MAINTENANCE

BLOWER OPERATION

1. After ensuring correct motor shaft rotation and connecting the air delivery devices, your new Paxton blower is now ready to use.
2. Switch the power “ON” to the blower unit and let it run while you measure the blower’s voltage and amperage rating and compare to the values listed on the motor nameplate. Measure amperage and voltage on L1, L2 and L3 to ground using a Clamp Meter.



Do not operate the blower if it exceeds the voltage or current ratings on the motor serial plate

3. Measure output pressure (page 25) and compare to design pressure, as indicated on the test sheet. If output pressure varies from design pressure by 10% or more, contact SolvAir technical service at **+44 1473 320 307**



If wired improperly and running backwards, the amp draw of the motor will be 80% of the nameplate amp draw, and the blower output pressure will be about 40% of normal. The scroll will be very hot, about 10°C higher than ambient, and about 4°C higher when compared to operating in the forward direction.

4. The blower will achieve steady state operation in 30–60 minutes.

To ensure peak performance of your Paxton Air System, please read and follow all service and maintenance procedures carefully, as defined in the Service and Maintenance Manual.

MEASURING PRESSURE

The PX-series blowers come equipped with a pressure gauge kit, with one gauge to measure the output pressure of the blower, and one gauge to measure the pressure drop across the filter.

► **Blower Output Pressure:** Each Paxton Air System is custom-engineered to match the number, size and types of air delivery devices with the flow and pressure of the blower. For one application, it may be optimum for the blower to operate at 125mbar and 1700m³/hr, whereas for another application, 75mbar and 2378m³/hr is specified. The blower is then built and tested to the design pressure and air flow rate. In order to achieve the drying performance specified, it is critical that the blower operate at the design pressure and flow.

The Blower Output Pressure Gauge is designed to indicate the outlet pressure of the blower, signaling proper operation. The pressure gauge should be connected to the outlet fitting of the blower via the pressure tap fitting. Upon start up of the Air System, the indicated outlet pressure should be compared to the design outlet pressure. This pressure gauge is also used for troubleshooting any performance issues. A complete loss of pressure indicates an electrical power issue or a mechanical problem such as a belt failure.

► **Pressure Drop Across the Filter:** The second pressure gauge measure the pressure drop across the inlet air filter, and indicates when the filter must be replaced. Filter replacement is required when the pressure drop across the filter exceeds 250mm of water column, or annually, whichever comes first. A drop in pressure indicates a dirty filter.



BELT REPLACEMENT

TOOLS NEEDED FOR INSTALLATION

- T27 Torx driver
- 5/16" hex key

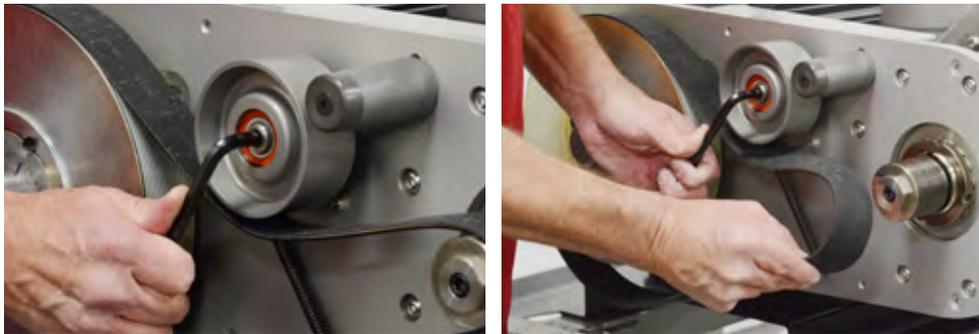
1. Disconnect power to blower.



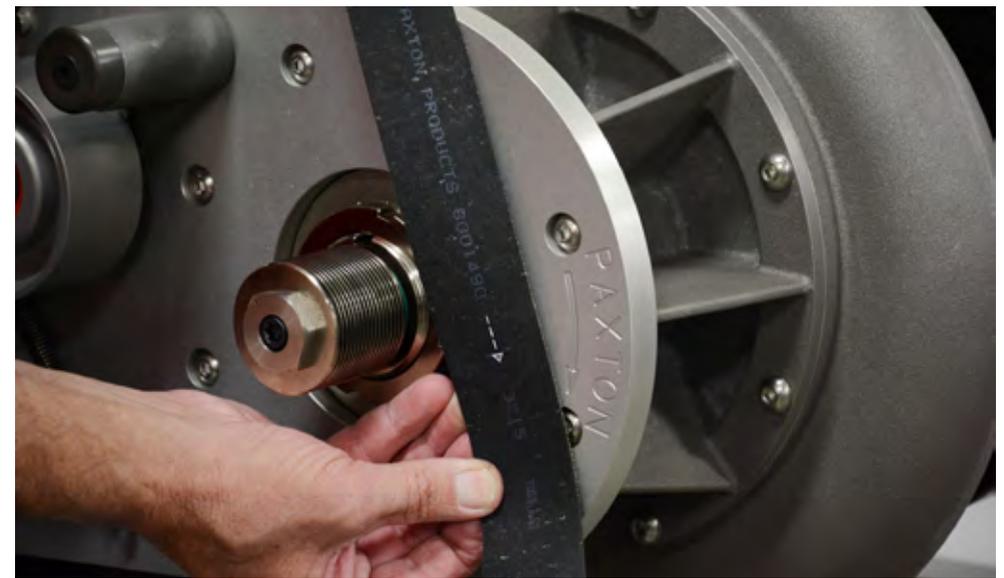
Follow proper lockout/tagout procedures to ensure that the power cannot be turned on while you are working on the blower.



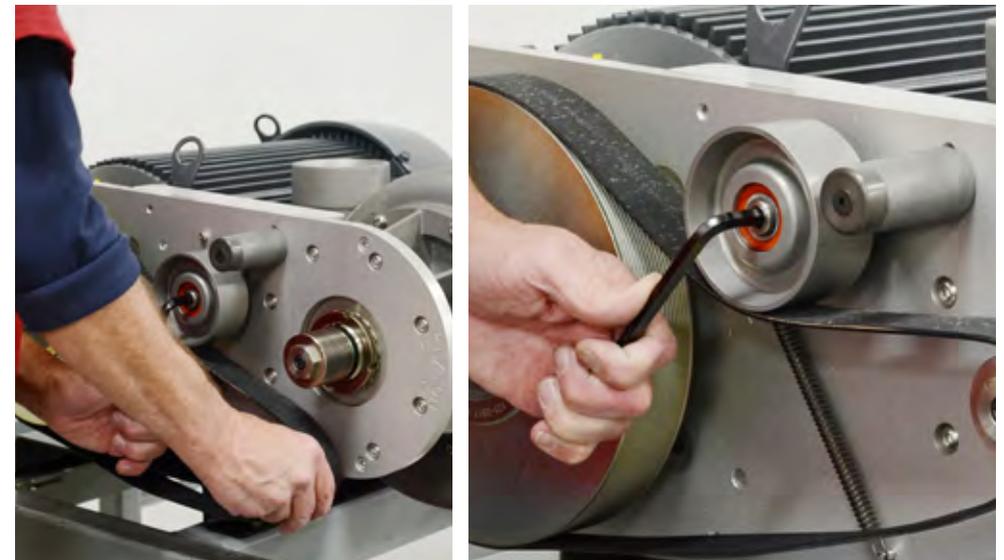
2. Remove belt guard by loosening 4 screws using T27 Torx. Place belt guard aside.

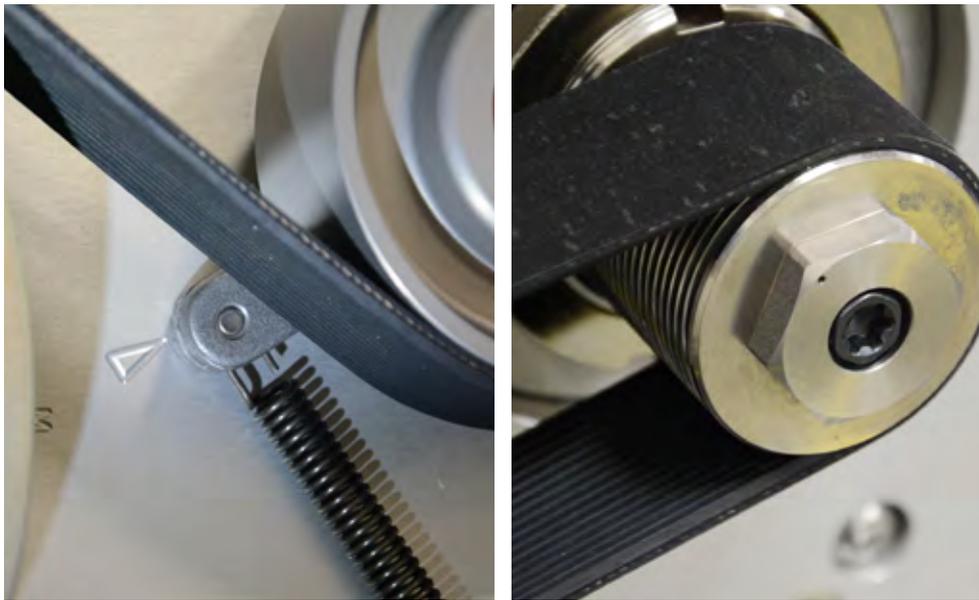


3. Using 5/16" hex key, loosen tensioner by rotating up/clockwise to release tension on belt.
4. Slip belt off beginning at blower pulley, then unwrapping from the motor pulley.



5. Take new belt from box and ensure that the rotation arrow on the belt matches the rotation arrow on the blower.
6. Wrap belt around motor pulley and pull up toward blower pulley.
7. Using one hand to hold the belt and one to release the tension on the tensioner, wrap belt around blower pulley ensuring that the grooves are aligned.





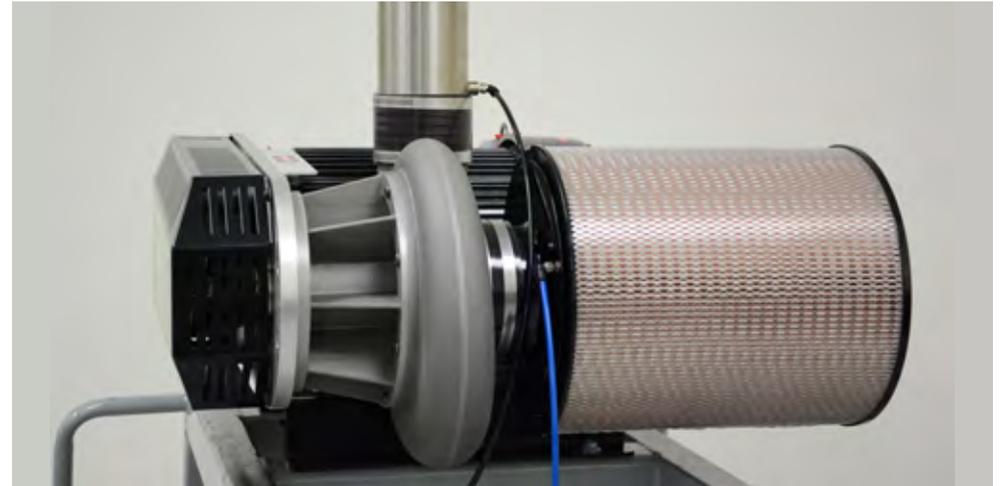
8. Verify that the grooves in the belt are aligned with the grooves on the motor and blower pulleys by manually turning the belt clockwise.
9. Replace belt guard.



FILTER REPLACEMENT

TOOLS NEEDED FOR INSTALLATION

None



1. Disconnect power to blower.



Follow proper lockout/tagout procedures to ensure that the power cannot be turned on while you are working on the blower.

2. Remove wing nut and plastic washer.





3. Remove old filter and discard.
4. Take new filter and install.



5. Replace plastic washer and wing nut.

FILTER AND SILENCER REPLACEMENT

TOOLS NEEDED FOR INSTALLATION

None

1. Disconnect power to blower.



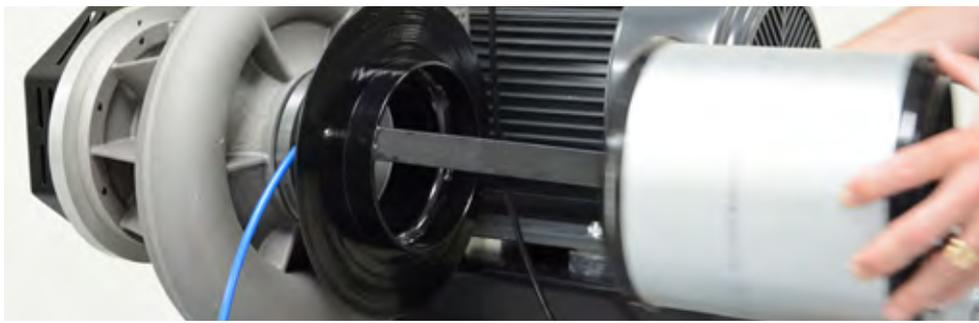
Follow proper lockout/tagout procedures to ensure that the power cannot be turned on while you are working on the blower.

2. Remove wing nut and plastic washer from filter.

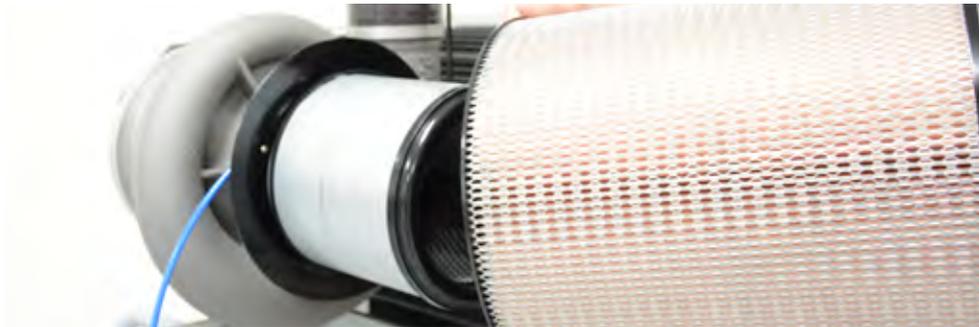


3. Remove old filter and discard.





4. Grasp silencer with both hands and tug to remove.
5. Slide new silencer onto shaft and push into place until flush against the back plate of the filter housing.



The silencer is non-directional.

6. Slide new filter onto the shaft over the silencer.



7. Replace wing nut.

TENSIONER AND/OR SPRING REPLACEMENT



Follow proper lockout/tagout procedures to ensure that the power cannot be turned on while you are working on the blower.

TOOLS NEEDED FOR INSTALLATION

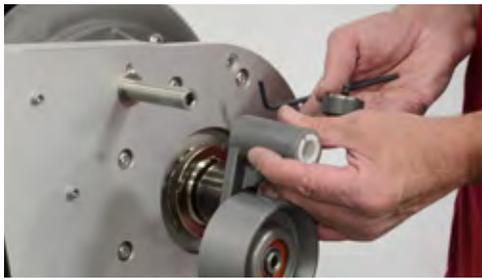
- 5/32" hex wrench
- 5/16" hex wrench
- T27 Torx driver
- Needle Nose Pliers
- 3/4" wrench

1. Remove belt guard and belt.



2. Unhook spring from pin.
3. Using 5/32" hex wrench, loosen the pivot arm cap, then remove the bolt, spacer and spring.

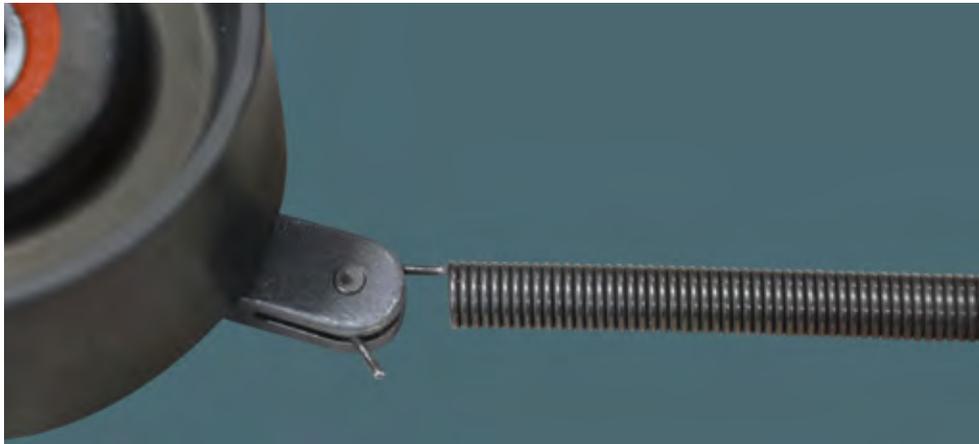




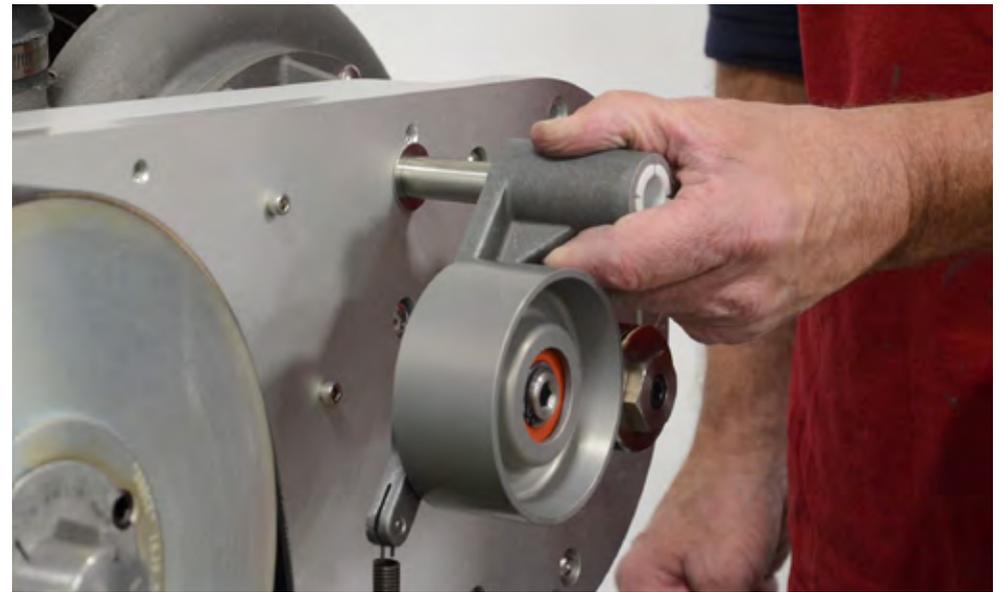
- Slide the pivot arm and tensioner off of pivot arm shaft. Remove the plastic bushings with the old pivot arm; but leave the metal spacer on the shaft.



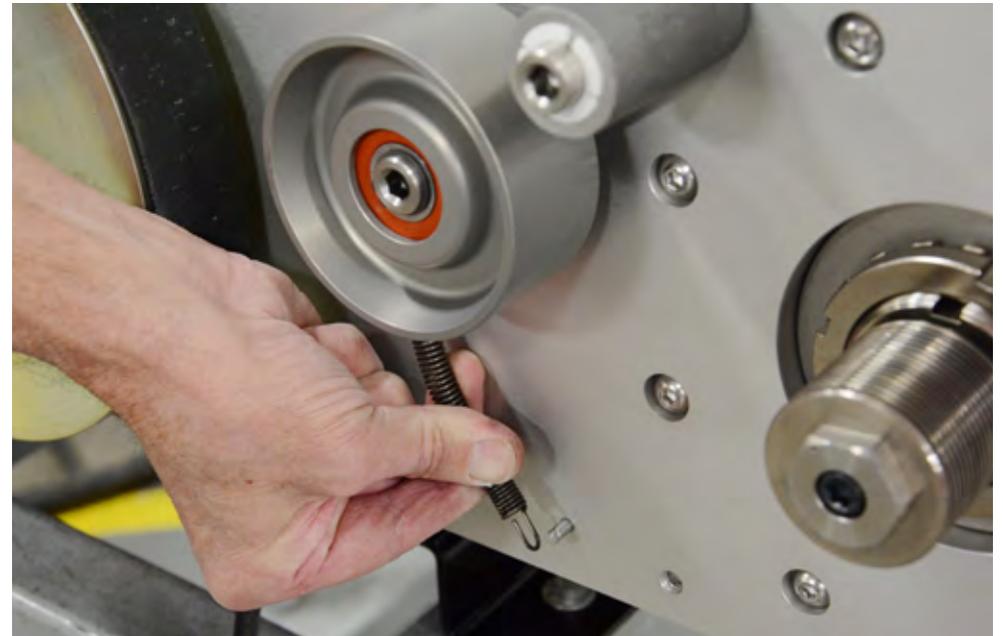
- To replace spring only, use needle nose pliers to bend head of spring to remove.



- Insert new spring onto pivot arm assembly. Use needle nose pliers to bend spring to tighten.



- Apply white lithium grease to pivot arm shaft and to internal diameter of plastic bushing, then slide new pivot arm and tensioner assembly onto pivot arm shaft.

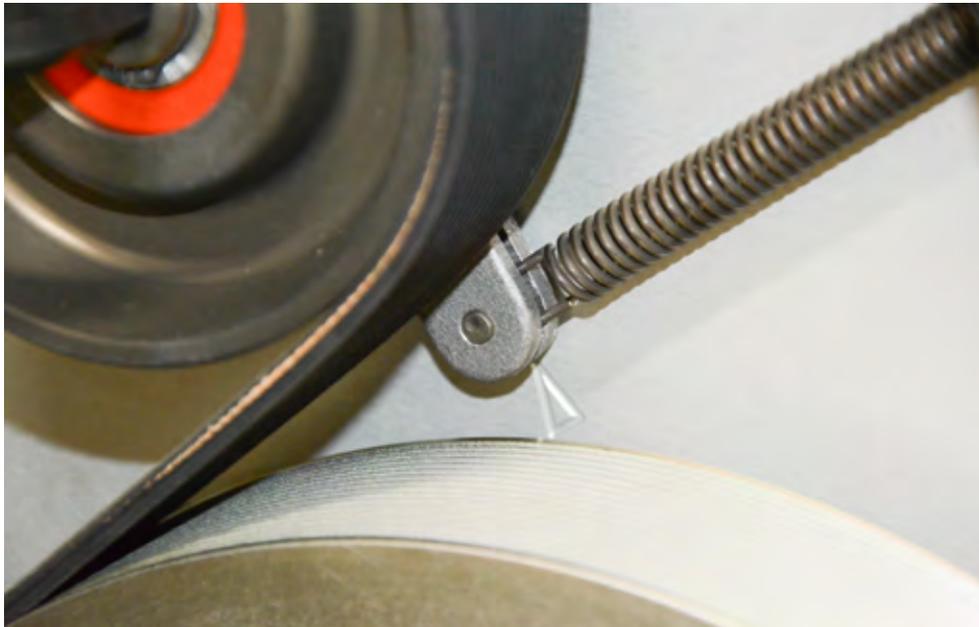


- Slide end of spring onto pin and tighten head of spring.

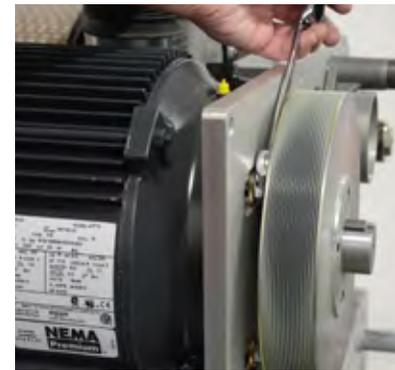


9. Put spacer on shaft then reinstall pivot arm cap, ensuring that the spring is inside cap. Tighten to 2.3 Nm (20 in-lbs) of torque.

10. Reinstall belt.



11. Check alignment of tensioner. Arrow on plate should align with center of tensioner.



12. If it is not aligned, remove the belt and loosen the four bolts behind the motor pulley using a 3/4" wrench, and adjust the center to center distance until the tensioner is aligned.



Be careful not to damage the motor pulley and its grooves, when tightening or loosening the bolts behind the motor pulley.

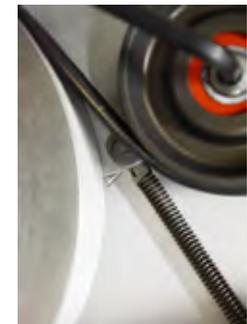
"A" configuration:



i. If the center line of the tensioner is below the arrow, then move the motor plate to the right, which would increase the center to center distance.



ii. If the center line of the tensioner is above the arrow, then move the motor plate to the left, which would decrease the center to center distance (moving the blower head closer to the motor pulley).





Check alignment every time the belt is changed.

"B" configuration:



i. If tensioner is to the right of arrow, then increase the center to center distance by moving the motor plate up (which will move the blower head up too).



ii. If tensioner is to the left of the arrow, then decrease the center distance by moving the motor plate down (moving the blower head closer to the motor pulley)



13. Once tensioner is aligned, reinstall belt and belt guard.



Check alignment every time the belt is changed.

BLOWER HEAD REPLACEMENT



Follow proper lockout/tagout procedures to ensure that the power cannot be turned on while you are working on the blower.

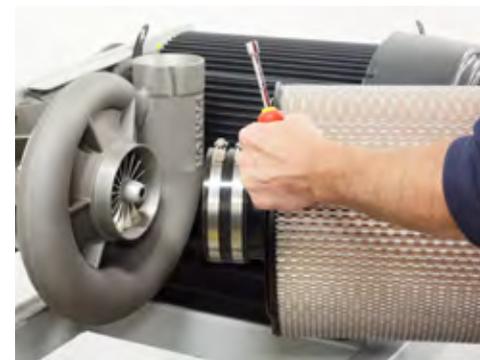
TOOLS NEEDED FOR INSTALLATION

- 5/16" nut driver
- T27 Torx driver
- 1/4" hex wrench
- 5/16" hex wrench
- 3/16" hex wrench
- T40 Torx driver

1. Disconnect pressure fittings on blower head and filter housing by pushing the small ring in while pulling the hose outlet.



2. Remove filter and housing by loosening the coupling clamp, and pull entire housing and coupling away from blower. Set aside.
3. Disconnect coupling/hose to air delivery devices.





4. Remove belt guard and set aside.
5. Remove belt (refer to page 26).



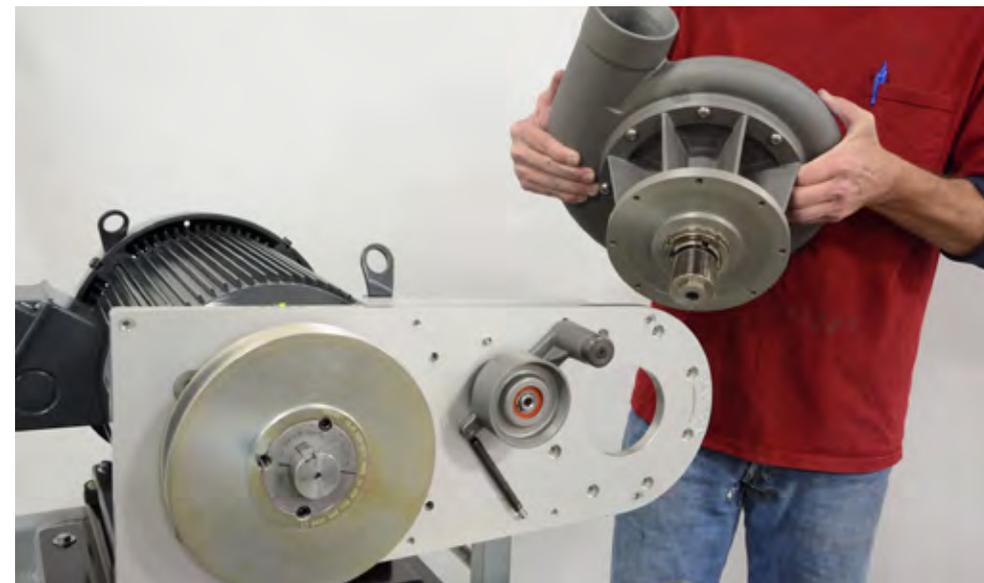
6. Using T40 Torx, loosen 8 bolts around the blower pulley that hold the blower head in place.



7. Using one person to steady the blower head and another to remove the bolts, slide the blower head and blower pulley away from the mounting plate.



Due to the weight of the blower head, the use of two people is recommended to prevent damage to the blower head and pulley.



8. Remove the new blower head from shipping box.



Be very careful not to damage the blower pulley during unpacking or installation.



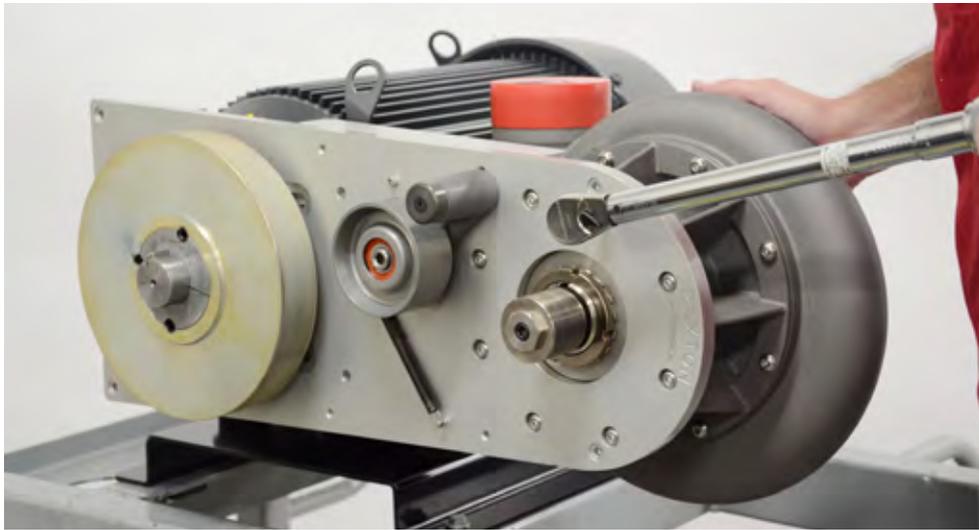
9. Slide blower pulley in through mounting plate hole to result in blower on one side of plate and pulley on opposite side. Align blower head with 8 bolts. Ensure proper alignment of outlet for existing air delivery device connections.



10. Finger tighten the 8 bolts, supporting the blower head on the other side of the plate.



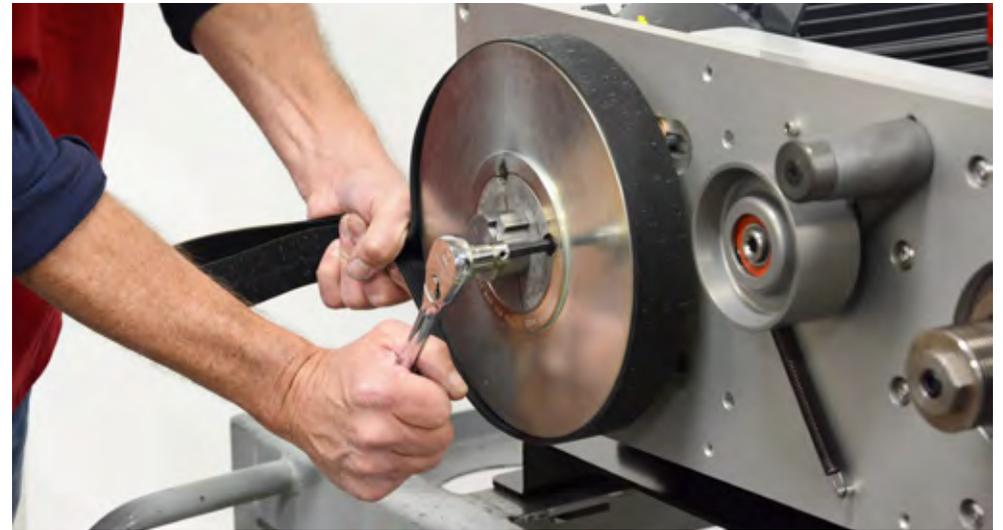
12. Check pulley alignment by using a straight edge to ensure motor pulley and blower pulley are flush to $\pm 0.5\text{mm}$ ($0.02''$).



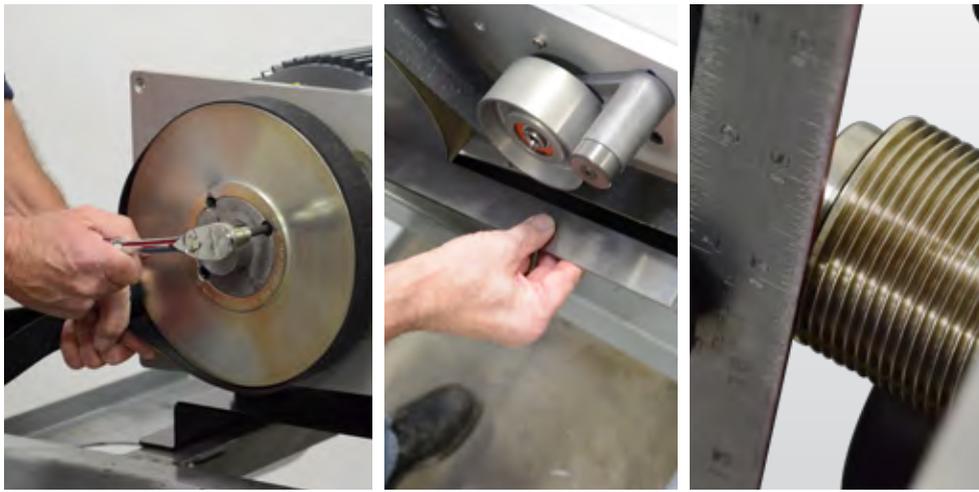
11. Tighten blower head bolts to 20 Nm (15 ft-lbs) of torque.



Be very careful not to damage the blower pulley while tightening bolts.



13. If not aligned, the motor pulley can be adjusted using a $\frac{1}{4}''$ hex wrench. Loosen both bolts, then remove one of the two 2 bolts on motor pulley. (A belt can be used to hold the motor pulley while loosening the bolt.)



14. Using the removed bolt, put into the hole at 90 deg and tighten. When tightening the bolt into this third hole, the motor pulley will loosen so that it can be slid in or out on the shaft to cause alignment. The motor pulley should be aligned to the chamfer of the blower pulley, because tightening of the motor pulley again will draw the motor pulley out slightly, thus coming into alignment with the blower pulley.

15. Once aligned with straight edge, back the bolt out from the third hole and put back into the 1st hole. Torque, to 49 Nm (35 ft-lbs), then recheck alignment again. Repeat adjustment if needed.

16. Remove protective cover from blower head inlet and reinstall filter.

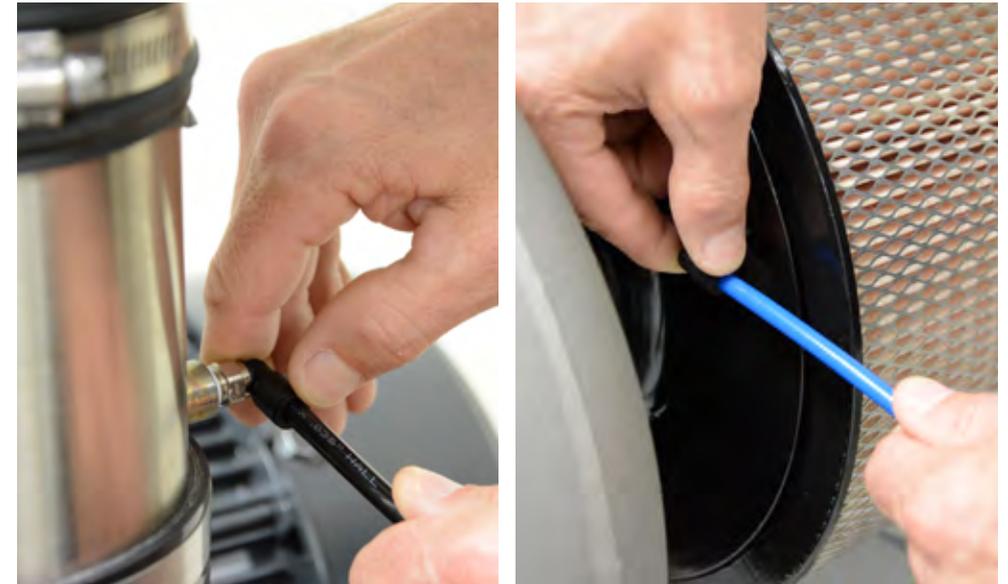


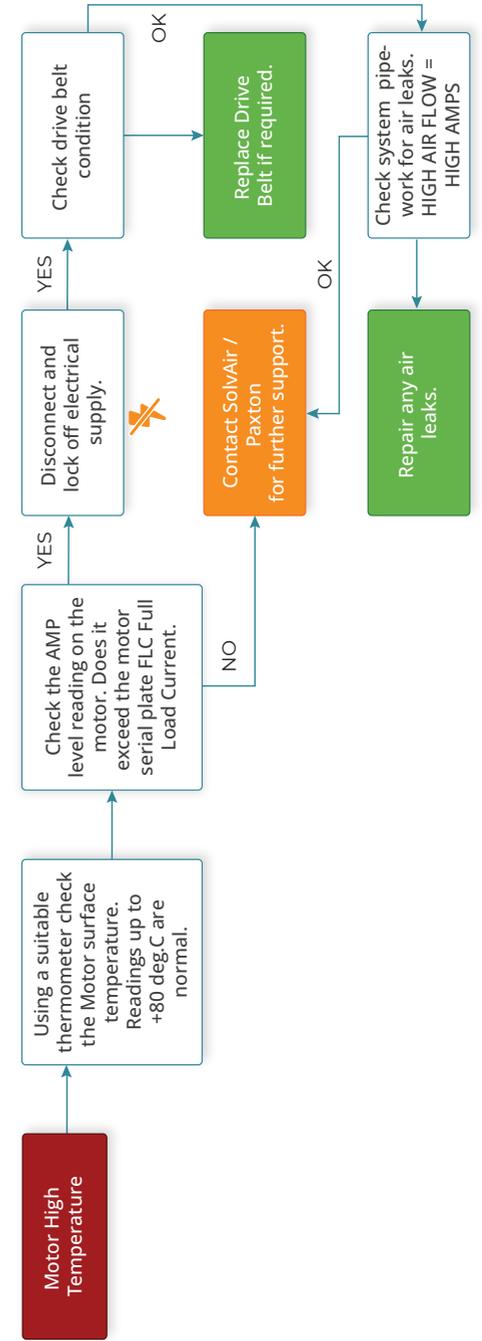
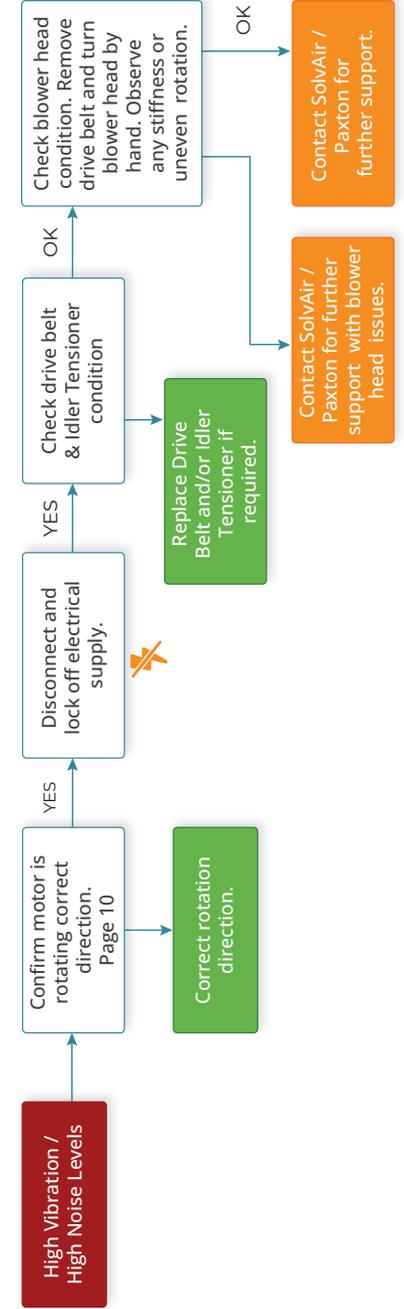
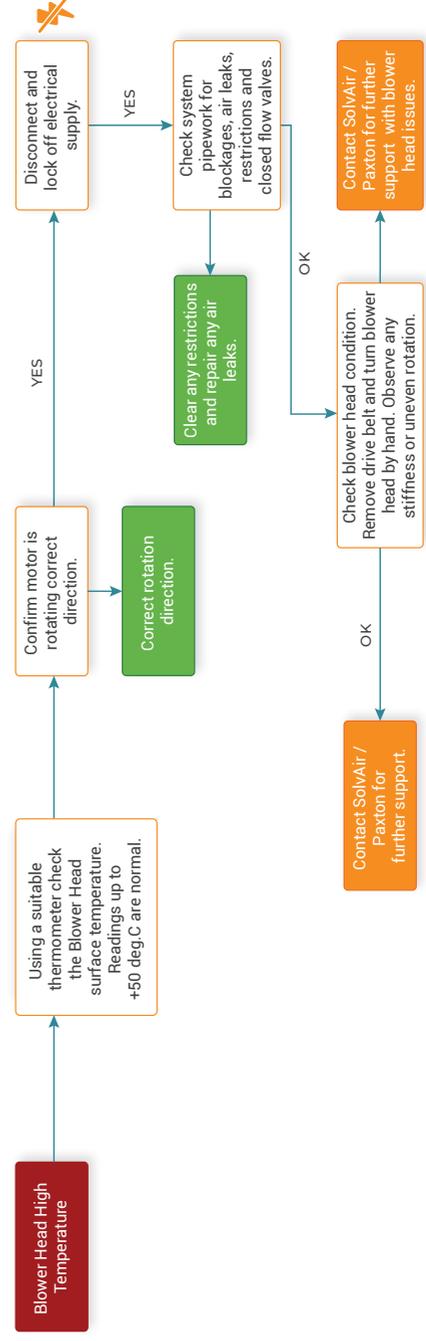
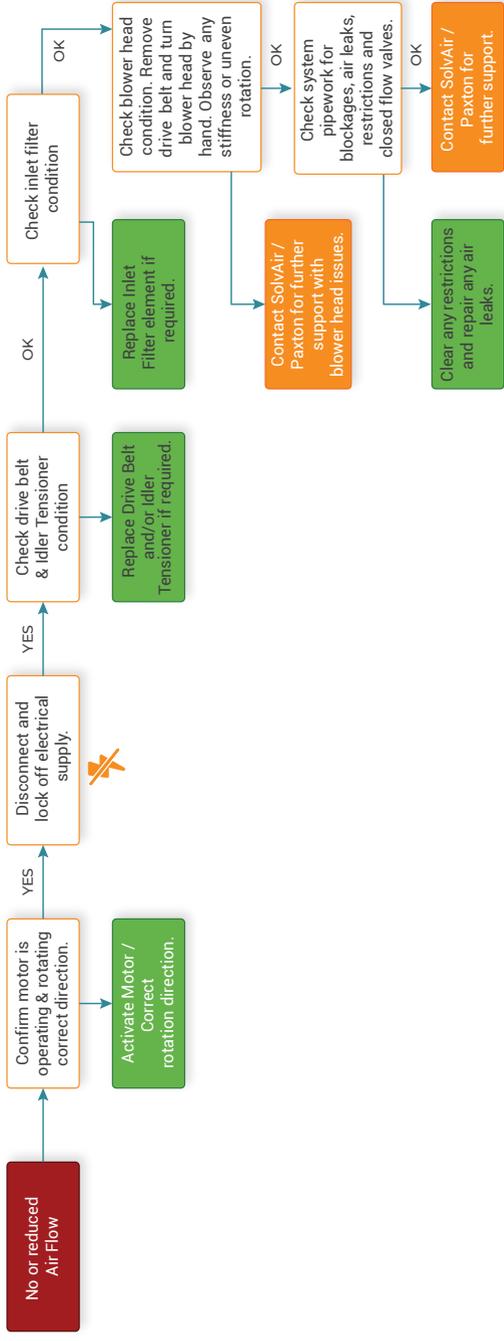
17. Reinstall belt and belt guard (see page 26).

18. Remove red cap from blower head outlet and reinstall coupling to air delivery devices.



19. Reinstall hoses to blower pressure port and filter pressure port.





RECOMMENDED REPLACEMENT PARTS

Paxton highly recommends the following spare/replacement parts be maintained in your service area to enable quick servicing of your Paxton blowers. This will minimize the chance of any unnecessary unit downtime due to lack of these routine service parts at your facility.

➤ Air Filter elements

Blower	Replacement Filter Elements (5 MICRON)
PX500	#5M-800-R2
PX750	#5M-800-R2
PX1000	# 5M-1500-R2
PX1500	# 5M-1500-R2
PX1550	# 5M-1500-R2
PX2000	# 5M-1500-R2

➤ Drive belts (*typical sizes - consult Paxton for confirmation*)

Blower	Replacement Belts
PX500	#8001480
PX750	#8001480
PX1000	#8001460
PX1500	#8001460
PX1550	#8001490
PX2000	#8001490

** We recommend that you confirm the required belt with your local Paxton representative quoting the blower serial number for identification purposes.

➤ Idler/tensioner assembly - # 8002562

➤ Blower head assembly w/pulley – Contact Paxton’s Service Department to determine the correct blower head assembly for your application. Please have the serial number of the existing unit, prior to calling.



OUR INDUSTRY LEADING
3-YEAR WARRANTY

3-Year Warranty for Paxton PX-Series Blowers



3-Year Warranty for PX Series Blowers

OUR INDUSTRY LEADING 3-YEAR WARRANTY

TERMS:

Paxton Products (“Paxton”), a business unit of ITW Air Management, guarantees its standard PX-Series blowers, including the PowerDry blower, against defects in the materials and workmanship for the 3-year Warranty period in accordance with the terms herein. The product must be installed and operated in accordance with the manufacturing specifications and the installation & maintenance instructions provided by Paxton using Paxton-provided replacement filters, belts and idler assemblies (“Maintenance Accessories”) for the warranty to apply. Proof of purchase of Paxton Maintenance Accessories at the prescribed frequency is required. Motors are warranted through Paxton for 24-36 months under the terms provided by the respective motor manufacturer’s warranty only.

COMPREHENSIVE GUARANTEE:

If defects in materials or workmanship and/or product performance due to defects in materials or workmanship occur and are determined by Paxton to be defective under the terms of this warranty, Paxton shall repair or replace, at Paxton’s discretion, the standard blower, motor and/or idler assembly at no cost to the customer. The customer is responsible for shipping the equipment to Paxton’s repair facility at the customer’s expense at any time during the warranty period. If repair is not possible, Paxton will replace the unit. Paxton’s sole obligation and liability under this warranty is limited to repair or replacement of the warranted PX-Series or Power Dry blower. Any additional or optional accessories and components or normal maintenance items such as filters and belts are not included in this warranty.

Updated: March 4, 2022

LIMITATIONS OF LIABILITY:

Paxton shall not be liable for repair, replacement, cost or liabilities of any kind resulting from misuse, improper installation or operation, lack of proper maintenance, including the use of non-Paxton Maintenance Accessories, inadequate filtration or lubrication, failure to provide proper inlet conditions of flow or temperature, operation of the equipment in excess of full load amperage; operating blowers in reverse rotation; the ingestion of material, moisture, and/or abrasive substances; or abnormal conditions. Blower heads must not be disassembled at any time, by any party other than Paxton Products. These limitations apply to the entire Warranty period. At no time shall Paxton be liable for any consequential or special damages, including but not limited to loss of profits or revenues, loss of equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, or other claims for such damages.

MISCELLANEOUS:

Warranty is from date of shipment from the Paxton factory. Failure to properly maintain the blower system using genuine Paxton service parts as recommended by Paxton will void the warranty. Paxton maintenance specifications are as follows:

Paxton part	PX-Series		PowerDry	
	1 or 2 shifts/day operation	3 shifts/day operation	1 or 2 shifts/day operation	3 shifts/day operation
Belts	12 months	6 months or 4000 hours	24 months	12 months
Belt Springs	12 months	6 months or 4000 hours	Not Applicable	Not Applicable
Tensioners	24 months	12 months or 8000 hours	Not Applicable	Not Applicable
Filters	Filters must be changed as often as needed to maintain blower or system performance as measured by increased pressure drop across the filter. The filter must be changed if the pressure drop exceeds 10" of water column. Filter change frequency will vary widely based on atmospheric conditions. Minimum recommended filter change frequency is every 12 months for 1 or 2 shift/day operation; and every 6 months for 3 shift/day operation.			

Unless otherwise agreed to in writing by Paxton, the equipment manufactured by Paxton is not intended for use in connection with any hazardous material including, but not limited to, nuclear facilities or activity. If so used, and any damage, injury, or contamination occurs as a result of exposure to hazardous or nuclear material, Paxton disclaims all responsibility and the customer shall indemnify Paxton from any and all liability for such damage or contamination arising out of such use, including any claims of negligence.



To have a SolvAir system designed for you, visit our website at www.solvair.co.uk/contact or scan this QR code with your smart phone for our contact form.

Updated: March 4, 2022



Paxton Products, an ITW Company
10125 Carver Road
Cincinnati, OH 45242

1-800-441-7475
sales@paxtonproducts.com
www.paxtonproducts.com



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IEC Model #	Base Blower	RPM	Flow (m3/hr)	Pressure (H2O)	Pressure (mm.wg)	Power (kW)	Efficiency Category	Measurement Category	Efficiency Grade (N)	Overall Efficiency
PX200-1.5KW-150-LM	PX200	12,789	510.0	32.4	823.0	1.5	TOTAL	B	64	60.3
PX500-4KW-185-LM	PX500	14,712	765.0	46.5	1181.1	4	TOTAL	B	64	71.7
PX750-5.5KW-165-LM	PX750	16,362	680.0	65.6	1666.2	5.5	TOTAL	B	64	78.6
PX1000-7.5KW-165-LM	PX1000	13,722	944.0	59.0	1498.6	7.5	TOTAL	B	64	87.7
PX-1500-11KW-155-LM	PX1500	14,592	1128.0	66.2	1681.5	11	TOTAL	B	64	73.5
PX1550-11KW-175-LM	PX1550	15,508	1104.0	76.2	1935.5	11	TOTAL	B	64	73.5
PX2000-15KW-165-LM	PX2000	16,387	1287.0	83.4	2118.4	15	TOTAL	B	64	77.9

UK Declaration of Conformity

We hereby declare that the machinery stipulated below complies with all the relevant provisions of the UK Machinery (Safety) Regulations 2008 (as amended)

Modifications to the machine without prior approval from the undersigned will render this declaration null and void.

Declaration Ref. No.: TF2229 – UK DoC 1.0

Manufacturer: SolvAir Limited
(name and address) Unit 20, Altitude Business Park, The Drift, Nacton Road, Ipswich. IP3 9QN. UK.

UK Authorised Representative: Not required
(name and address)

Description of Equipment: PX range of High Speed Centrifugal Blower and Motor Assemblies.

Model/Type: PX500, PX750, PX1000, PX1500, PX1550, PX2000

Serial No.:

Approved Body: Not required.
(name and address)

Other UK Regulations: UK EMC Regulations 2016
UK RoHS Regulations 2012 (as amended)

UK Designated Standards applied in full: No Type 'C' Standard
(‘C’ type product standards)

UK Designated Standards referenced: BS EN ISO 12100 – General principles for design
(partially applied) BS EN ISO 14118 – Prevention of unexpected start-up
BS EN ISO 14120 – Guarding
BS EN 60204-1 – Electrical equipment of machines

Person empowered to draw up the declaration:

Name: Chris Davies **Signature:** 

Position: Managing Director, SolvAir Ltd.

Place of issue: Ipswich, Suffolk. UK **Date:** 24/2/2022

EU DECLARATION OF CONFORMITY

We hereby declare that the machinery stipulated below complies with all the relevant provisions of the

European Machinery Directive 2006/42/EC

Modifications to the machine without prior approval from the undersigned will render this declaration null and void.

Declaration Ref. No.: TF2229 – EU DoC 1.0

Manufacturer: SolvAir Limited
(name and address) Unit 20, Altitude Business Park, The Drift, Nacton Road, Ipswich. IP3 9QN. UK.

EU Authorised Representative: VeriSafe Compliance Ltd.
(name and address) 77 Lower Camden St., Dublin, D02 XE80. Ireland.

Description of Equipment: PX range of High Speed Centrifugal Blower and Motor Assemblies.

Model / Type: PX500, PX750, PX1000, PX1500, PX1550, PX2000

Serial No.: _____

Notified Body: Not required
(name and address)

Other EU Directives: EMC - Directive 2014/30/EU
RoHS – Regulation (EU)2015/863

Standards applied in full: No Type 'C' Standard
(‘C’ type product standards)

Other referenced Standards: EN ISO 12100 – General principles for design
(partially applied) EN ISO 14118 – Prevention of unexpected start-up
EN ISO 14120 – Guarding
EN 60204-1 – Electrical equipment of machines

Person empowered to draw up the declaration:

Name: Chris Davies

Signature:



Position: Managing Director, SolvAir Ltd.

Place of issue: Ipswich, Suffolk. UK

Date: 24/02/2022



Centrifugal Blowers, Air Knives
& Drying Systems

Thank you for choosing Paxton.

SolvAir

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