

Light Commercial

INSTALLATION INSTRUCTIONS

Premium Efficient High Static Blower Drive Kits 6 - 15 Ton Light Commercial Systems

GENERAL

These instructions are primarily intended to assist qualified individuals experienced in the proper installation of heating and/or air conditioning appliances. Some local codes require licensed installation/service personnel for this type equipment and their accessories. All installations must be in accordance with these instructions and with all applicable national and local codes and standards. Please read all instructions thoroughly before installing the kit.

WARNING:

ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury or property damage.

Improper installation or servicing could result in dangerous operation, serious injury, death or property damage.

- Before servicing, disconnect all electrical power to the unit.
- When servicing controls, label all wires prior to disconnecting. Reconnect wires correctly.
- Verify proper operation after servicing.

WARNING:

Improper installation, service, adjustment, or maintenance can cause fire, electrical shock, or other conditions which may result in personal injury or property damage. Unless otherwise noted in these instructions, only factory authorized kits, parts or accessories may be used when modifying this equipment.

NOTETOINSTALLER: The blower drive kits listed in Table 1 are applicable only to NORDYNE units equipped with NORDYNE motors. The use of these kits with non-NORDYNE motors may not produce the same values shown in the airflow tables or other data provided.

KIT #	918799	918800	920560	920609	920613	920618	920637
Motor	622393		622305	622305	622026	622026	622393
Ext. Motor Overload	X		X	X	X	X	X
Overload Adapter	X		X	X	X	X	X
Motor Sheave	X	X	X	X	X	X	X
Blower Pulley	X	X	X	X	X	X	X
Drive Belt	X	X	X	X	X	X	X
Overload Wires	X		X	X	X	X	X
Parts Kit	X	X	X	X	X	X	X

KIT #	921428	921429	921481	921645	921646	921647	921655
Motor	622390	622391	622391	622391	622390	622391	622391
Ext. Motor Overload							
Overload Adapter							
Motor Sheave		X				X	X
Blower Pulley	(x2)		X	X	X	X	X
Drive Belt	X		X	X	X	X	X
Overload Wires							
Parts Kit	X	X	X	X	X	X	X

Table 1. Blower Drive Kit Contents & Part Numbers

IMPORTANT SAFETY INFORMATION

INSTALLER: Please read all instructions before servicing this equipment. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored. **WARNING** indicates a potentially hazardous situation that if not avoided, could result in personal injury or death. **CAUTION** indicates a potentially hazardous situation that if not avoided, may result in minor or moderate injury or property damage.

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KIT APPLICATIONS

Prior to installing a high static drive kit (HSDK), always review these installation instructions to ensure the proper application of the kit for the appropriate equipment to be upgraded and verify that the kit will operate at the desired airflow requirements.

For retrofit/replacement installations, it is recommended that the current systems airflow and external static pressure be attained through on-site test measurements and/or the applicable manufacture's airflow data be reviewed prior to ordering. Knowing the existing unit performance can greatly increase the reliability of initial system setup calculations in accounting for other airflow losses due to additional accessories and the current duct system performance.

B5SM Series Air Handlers

UNIT MODEL #	RANGE (IN-WG)	BLOWER CHART	HSD KIT
-090Ja	0.1 - 1.3	pg. 32	921428
	0.4 - 1.6	pg. 33	
-120Ja	0.1 - 1.3	pg. 34	921429

R6GN Series Units

UNIT MODEL #	RANGE (IN-WG)	BLOWER CHART	HSD KIT
-150C-180C	1.1 - 1.9	pg. 30	918799
-150C-270C			920637
-150D-180C			
-150D-270C			
-180C-270C	1.1 - 1.9	pg. 31	918800
-180C-315C			
-180D-270C			
-180D-315C			

R6GP Series Units

UNIT MODEL #	E.S.P. RANGE (IN-WG)	DOWN-FLOW BLOWER CHART	DOWNFLOW KIT	HORIZONTAL BLOWER CHART	HORIZONTAL KIT
-072C-100C	0.7 - 1.6	pg. 22	920609	pg. 23	920609
-072C-166C		pg. 24	920609	pg. 25	920613
-072D-100C		pg. 22	920560	pg. 23	920560
-072D-166C		pg. 24	920560	pg. 25	920618
-090(C/D)-200Ca	0.1 - 1.9	pg. 26	921481	pg. 27	921655
-120(C/D)-235Ca	0.1 - 1.4	pg. 28	921645	pg. 29	921645

P6SP Series Units

UNIT MODEL #	E.S.P. RANGE (IN-WG)	DOWN-FLOW BLOWER CHART	DOWNFLOW KIT	HORIZONTAL BLOWER CHART	HORIZONTAL KIT
-072C	0.8 - 1.6	pg. 12	920609	pg. 13	920609
-072D	0.8 - 1.6	pg. 12	920560	pg. 13	920560
-090(C/D)a	0.1 - 1.7	pg. 14	921481	pg. 15	921481
-120(C/D)a	0.1 - 1.4	pg. 16	921645	pg. 17	921645

Q6SP Series Units

UNIT MODEL #	E.S.P. RANGE (IN-WG)	DOWN-FLOW BLOWER CHART	DOWNFLOW KIT	HORIZONTAL BLOWER CHART	HORIZONTAL KIT
-090(C/D)a	0.1 - 1.1	pg. 18	921646	pg. 19	921646
	0.4 - 1.5	pg. 20	921647	pg. 21	921647
-120(C/D)a	0.1 - 1.4	pg. 16	921645	pg. 17	921645

Table 2. Kit Applications

PRE-INSTALLATION INFORMATION & INSTALLATION METHOD

Before You Begin

It is recommended that prior to a kit selection for a retrofit installation, the existing duct system be inspected for security and possible improvements. The removal of flexible duct sections or replacement of under sized ducts can significantly improve a buildings air distribution system for increased unit efficiency, correction of room stratification issues for personal comfort and reduction of equipment noise levels transferred through the ducts.

Some local codes require testing a buildings duct system for external air infiltration and correcting any deficient structures. Commercial duct systems should be designed for compliance with the guidelines given in the ASHRAE Handbooks, ACCA Manual Q, SMACNA manuals or as specified by any applicable NFPA and local codes or ordinances that may apply. Improving an existing duct system could be more cost effective then increasing the units airflow when weighed against the increased energy cost for the designed life of the equipment.

Always make sure all equipment installation instructions are on-hand and reviewed prior to the commencement of any work for the unit and all field installed accessories. This accessory kit should be installed prior to the installation of any economizers, air-dampers, or other kits that require the blower operation for final setup. On roof top installations, these kits could be partially installed at ground level prior to the final unit placement in order to reduce the number of crane operations required.

Pre-Installation Checklist

- Verify the HSDK matches the unit application and building voltage requirements in Table 2 (page 3).
- Inspect the kit and verify the contents to Table 1 (page 1).
- Inspect the duct system for security, air leakage or infiltration, and that it is properly constructed for the airflow/pressure requirements of the HSDK.
- Review all equipment and accessory installation instructions prior to beginning the installation.
- Verify that the unit supply wiring, unit disconnect & over-current protection is sized properly for the addition of the HSDK and any other accessory kits that will utilize the same electrical circuit.
- Refer to the applicable unit installation instructions, technical service literature, or units rating late for the correct electrical data when using these kits.

HSDK Installation Method

1. Set the thermostat and unit disconnect(s) to the **OFF** position. Verify that the unit has been isolated from all electrical power sources. For HSDK's that do not require a motor replacement, go to step 6.
2. Open/remove the access panels for the units control panel, blower compartment and field wiring compartments.
NOTE: Never lift or hoist a unit without the access panels installed or closed and securely attached with all of the screws supplied from the factory. Refer to the unit installation instructions for additional details if necessary.
3. Locate the blower motor and trace the motor wires back to the blower motor contactor or external motor relay. Carefully cut any zip-ties to free the motor wires from the unit or wiring harness.
4. Disconnect the motor wires from the overload relay or contactor T1, T2 & T3 terminals or box lugs.
 - For HSD kits that include external motor overloads see Figures 3 & 4 (pages 6 & 7) for proper wiring routing and connections.
5. Locate and install the motor overload relay (if required) using mounting holes and provided screws (see Figure 1, page 5). Route power wires as shown in Figures 3 & 4.
6. Remove the factory motor & lead assembly from the motor mounting plate and install the HSDK motor & lead assembly in the unit.
7. Re-route the blower motor wires to either the new external motor overload or the blower contactor and secure with the supplied zip-ties.
 - Refer to Table 1 (page 1) to determine the HSDK motor part number and then Table 3 (page 5) to determine the service factor amps (SFA) for the HSDK motor at the correct unit supply voltage. Set the external overload relay to the motor SFA for that voltage. **NOTE:** Replacement overload relay part numbers can be found using the data in Tables 3 & 4 (page 6).
8. Verify the proper operation of the motor sheave. Refer to the blower chart called out for the application in Table 1 and set the sheave to the proper set-point. Install the HSDK blower pulley and belt and then reference the instructions on pages 6 - 8. Tighten the belt and secure the assembly.
9. Verify that all electrical connections have been made and wiring properly secured. Complete the instructions on verifying the electrical phase balance and blower rotation direction (pages 8 - 9).
10. After the completion of any other unit or accessory installation requirements, close or re-install the blower compartment access panel and restore the electrical power to the unit. Verify that the unit is delivering the proper airflow as described on pages 8 - 9.
11. Replace all other access panels and refer to the unit installation instructions to complete the installation and place the unit into normal service.

EXTERNAL MOTOR OVERLOADS

Application

Siemens 3RU11 overload relays provide overload protection for three-phase inductive motors with rated currents of up to 100A (75HP, AC-3, 480V). Most NORDYNE motors do not require an external motor protector. Refer to Table 3 (page 5) to determine which kits require protectors.

Auxiliary Contacts

The overload relays are equipped with a NC contact for de-energizing the contactor and a NO contact for signalling an overload trip. The breaking capacity of the switching contacts is very high so that the contactor coils can be switched directly.

Trip Class

The 3RU11 overload relays are designed in accordance with trip class 10 (e.g. The protector will trip in less than 10 seconds at 6 times the trip current setting (FLA).

Phase Failure Sensitivity

A phase failure sensitivity function is integrated in to the relay in order to provide increased protection in the event of a phase failure, i.e. faster tripping in the event of a single-phase condition.

Setting the Overload Relay

The current setting dial can be accessed once the transparent, sealable cover has been opened. The overload relay must be set at the rated Service Factor Amps (SFA) of the motor for the proper unit voltage. See Figure 2.

STOP Function

Pressing the red STOP button on the overload relay momentarily opens the NC trip contact. No other contacts and/or functions are affected by this STOP button.

Manual/Automatic Reset

The RESET button/mechanism features trip-free operation. This means that the overload relay will trip on an overload condition regardless of whether the reset button is pushed in or not. Manual or automatic reset can be selected with the blue button. The appropriate setting is selected by pressing and turning the button. This setting can then be locked by the sliding transparent cover.

TEST Function & Switch Position Indicator

The switch position indicator also incorporates a test function which, when activated, simulates a tripped overload relay. Both auxiliary contacts are actuated and the switch position is indicated.

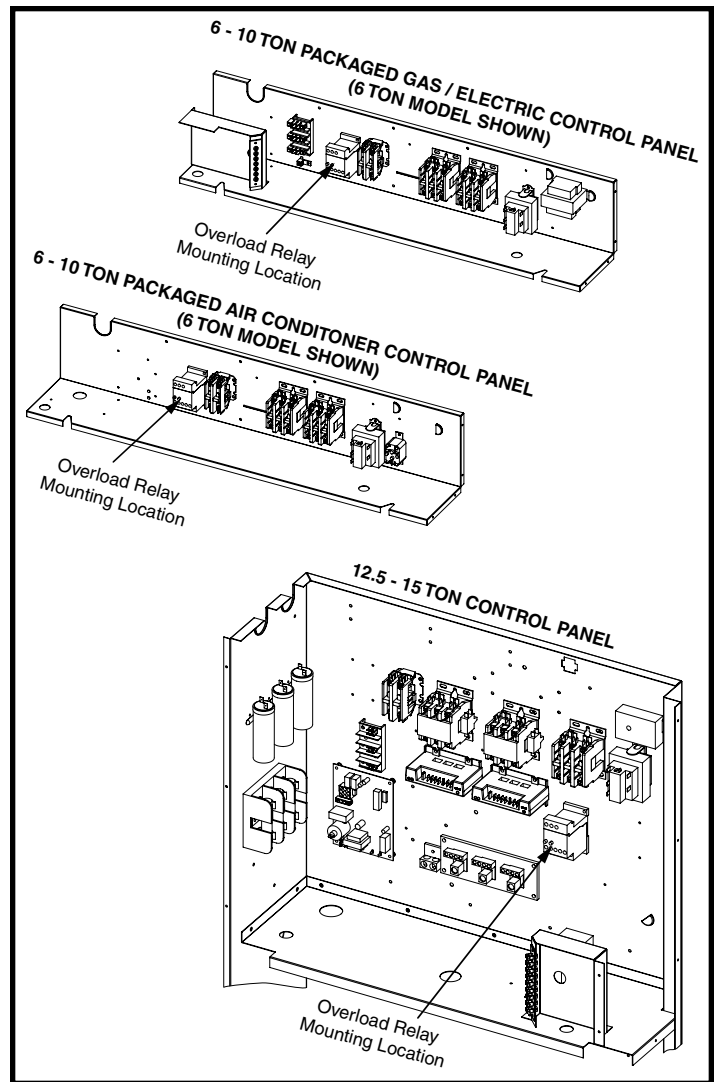


Figure 1. Overload Relay Mounting Locations

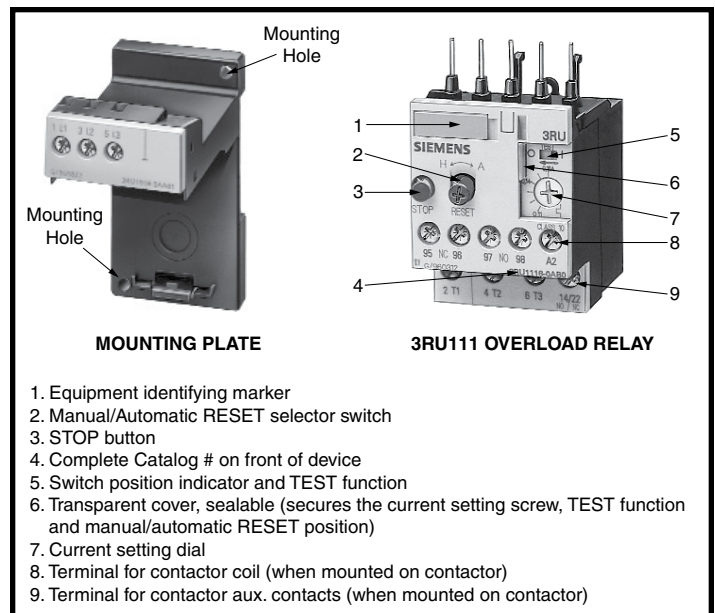


Figure 2. Overload Relay & Mounting Plate

P6SP Series - 072 Units (Figure 3)

On Drive Kits (for P6SP Series Units) that require the addition of an external overload relay.

- A) Use the included 97" wires to route power from the terminal block (1) to overload relay (2).
- B) Use the 19" wires to route power from relay (2) to the blower contactor (3).
- C) Discard original wires powering the blower contactor. Bundle all wires neatly.

R6GP Series - 072 Units (Figure 3)

On Drive Kits (for R6GP Series Units) that require the addition of an external overload relay. The relay is positioned exactly as shown above in the P6SP depiction. However the unit terminal block is in the control panel, to the left of the overload relay.

- A) Use the included wires (short, 7" yellow, 9" red, 13" black) to route power from the terminal block (not shown) to overload relay (2). Then follow steps B & C shown above for P6SP series units

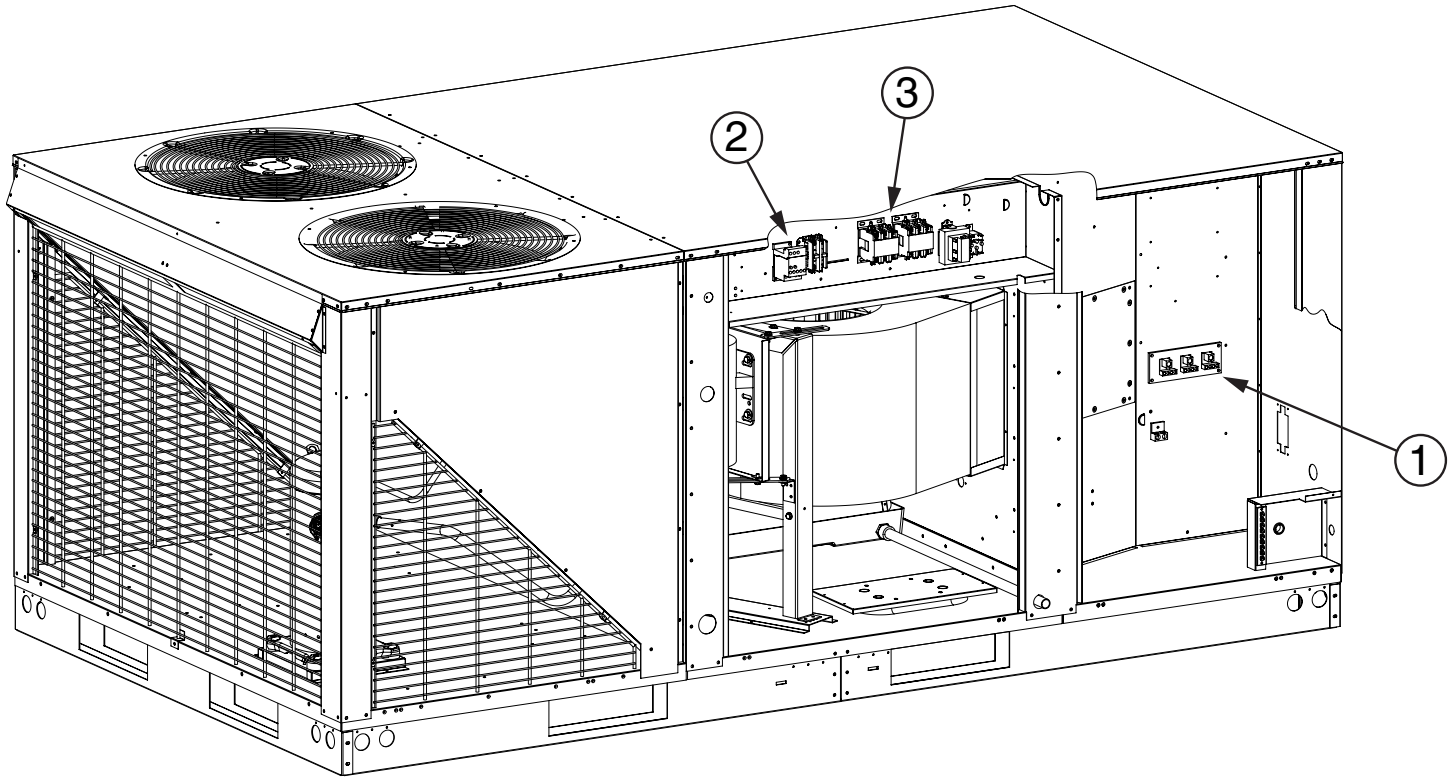


Figure 3. External Motor Overload Wire Routing - 6 Ton Units

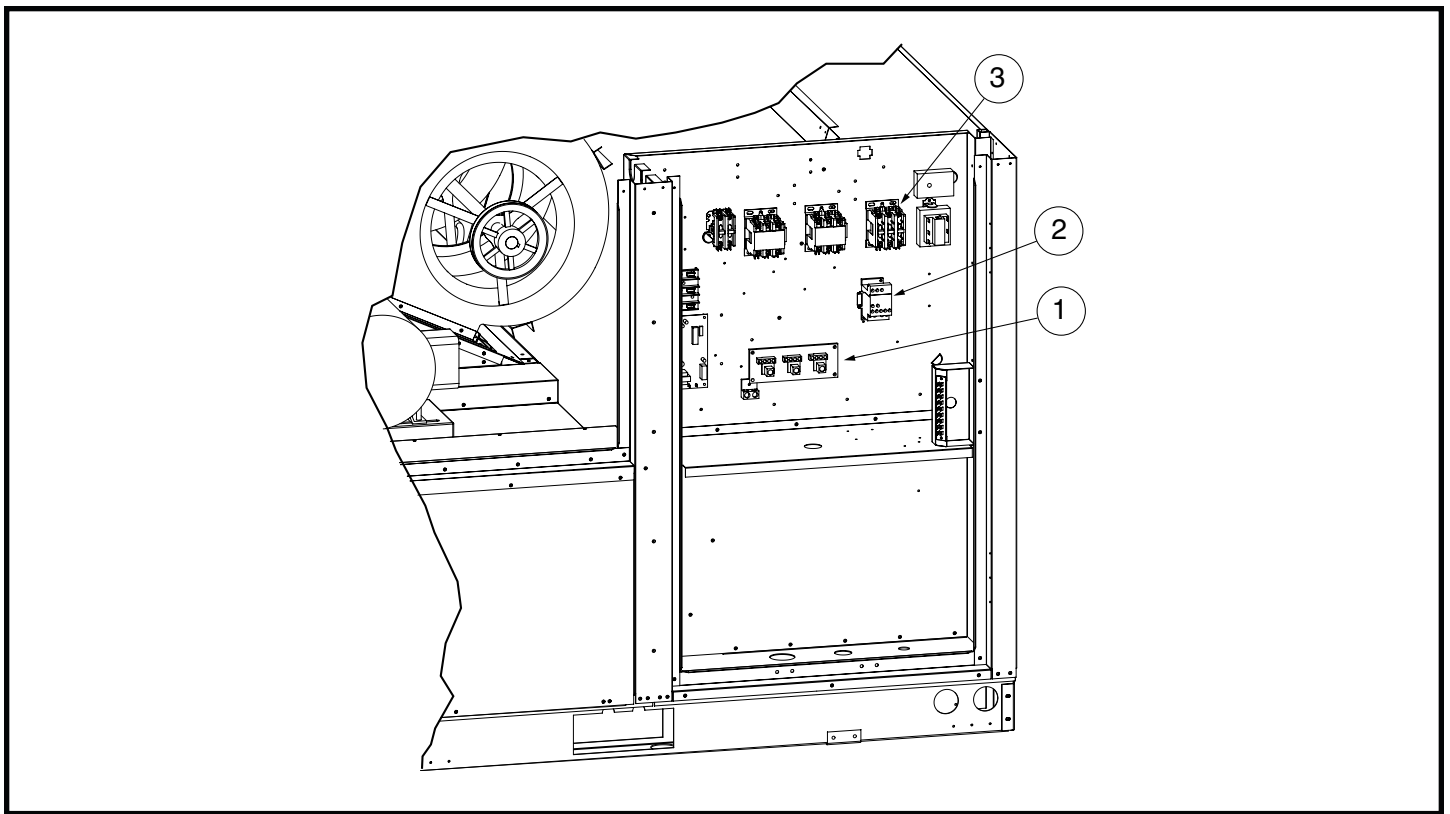


Figure 4. External Motor Overload Wire Routing - 12.5 Ton Units

R6GN Series - 150 XXXC Units (Figure 4)

On Drive Kits (for R6GN-150-XXXC Units) that require the addition of an external overload relay.

- A) Use original wiring between terminal block (1) and blower contactor (3) to route power from the terminal block to overload relay (2).
- A) Use the three 4" wires supplied in the kit to route power between the overload relay and the blower contactor (3).

MOTOR PART NUMBER	RATED HP	POLES	VOLTAGE	HZ	Ø	RATED RPM	NEMA NOM. EFF.	NEMA FRAME SIZE	MOTOR AMPERAGE			REQUIRED EXTERNAL PROTECTOR
									FLA	SF	SFA	
622305	1.5	4	208-230/460	60	3	1755	86.5%	145T	4.4 - 4.2 / 2.1	1.15	5.0 - 4.6 / 2.3	Yes
622390	1.5	4	208-230/460	60	3	1760	86.5%	143T	4.4 - 4.2 / 2.1	1.15	5.0 - 4.6 / 2.3	- n/a -
622026	2	4	208-230/460	60	3	1755	86.5%	145T	5.8 - 5.5 / 2.8	1.15	6.6 - 6.1 / 3.1	Yes
622391	2	4	208-230/460	60	3	1740	86.5%	145T	6.0 - 5.8 / 2.9	1.15	6.7 - 6.4 / 3.2	- n/a -
622393	5	4	208-230/460	60	3	1765	89.5%	184T	13.8 - 13.0 / 6.5	1.15	15.8 - 14.6 / 7.3	Yes

NOTES: FLA = Full Load Amps
SF = Service Factor
† Approximate Efficiency

SFA = Service Factor Amps
Nom. Eff. = Nominal Efficiency

Table 3. High Static Drive Motor Data

RANGE OF PROTECTION (AMPS)	RELAY PART NUMBER	REQUIRED MOUNTING PLATE
1.4 - 2.0	624728	622032
1.8 - 2.5	624729	622032
2.8 - 4.0	622034	622032
3.5 - 5.0	622075	622032
5.5 - 8.0	622031	622032
7.0 - 10.0	622077	622032
11.0 - 16.0	622082	622083

**Table 4. Overload Relay Data
(3Ø Motor External Protectors)**

MOTOR SHEAVE / PULLEYS / BELT INSTALLATION & ADJUSTMENT

WARNING:

Never perform maintenance on energized or rotating equipment. Always disconnect electrical power and allow all rotating equipment to stop before servicing the unit. Failure to do so may result in personal injury, loss of limb, or death from electrical shock or entanglement in moving parts.

Motor Pulley

The motor pulley or sheave is a variable pitch style pulley which allows blower speed adjustments over a wide range of applications. While the terms pulley and sheave can be interchanged, in this document, the adjustable motor pulley is referred to as a sheave or adjustable sheave, and the blower sheave is referred to as the pulley or blower pulley. Refer to the installation instructions supplied with the unit or refer to Tables 7 - 32 (pages 11 - 32) in this manual for proper airflow settings for each individual unit & kit. Do not adjust a motor pulley to a setting that is not shown on the table for that unit's application for that specific kit. Refer to Table 2 (page 3) to determine the proper blower chart for each application.

On 6-10T Packaged Models: The blower pulley in the kit is a simple AK or BK style pulley, sized for the application and the unit's blower shaft size. To remove or install, simply loosen the set screw and slide the pulley from the blower shaft. Make sure the shaft key is retained for installation of the new pulley.

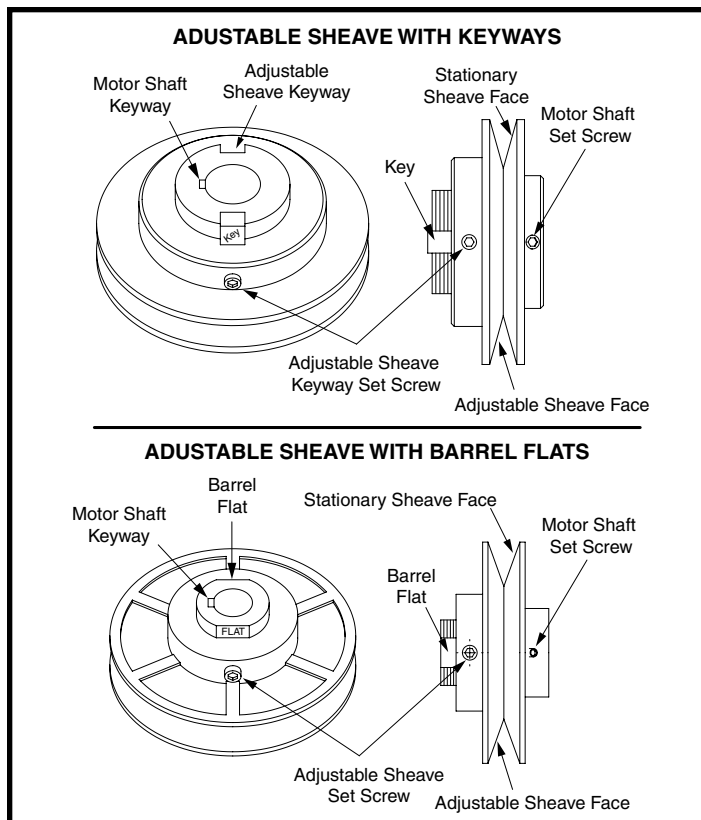


Figure 5. Adjustable Sheaves with Keyways or Barrel Flats

During installation, set the variable sheave position first, then adjust the blower pulley on the blower shaft to align the centers of the pulley and sheave. The set screw should always be above the pulley shaft key. Do not tighten the set screw directly onto the blower shaft.

On 12.5-15T Models: The blower pulleys are referred to as the split-taper style. This style of pulley positively locks the blower pulley to the shaft for higher horsepower applications. Refer to page 7 for instructions on how to install and remove these pulleys.

Single Groove Adjustable Motor Sheaves with Keyways or Barrel Flats

IMPORTANT NOTES:

- **Do not force belts over grooves! A belt tension checker should be used to set tension.**
- **Future adjustments should be made by loosening the belt tension and increasing or decreasing the pitch diameter of the sheave by half or full turns as required. Readjust belt tension before starting drive.**
- **Make sure the key is in place and that all set screws are torqued properly before starting drive. Check set screws and belt tension after 24 hours service.**
- **Sheaves can only be adjusted in 1/2 turn increments. Never attempt to tighten a set screw on to the threaded portion of the sheave barrel.**

1. Make sure the shaft, sheave bore and keyway are free of burrs, paint, etc.
2. Mount all sheaves on the motor or driving shaft with the end containing the motor shaft set screw toward the motor.
NOTE: For single groove sheaves with keyways (Figure 5), always make sure the motor sheave is fully installed onto the motor shaft.
3. Fit shaft key between sheave & shaft and lock set screw in place. Wrench torque to 110 in-lb min. - 130 in-lb max.
NOTE: Make sure both driving and driven sheaves are in alignment and that shafts are parallel. Total axial and parallel misalignment must not exceed 1/4°. See page 8 for information about V-belt alignment and tensioning.
4. Sheaves with Keyways: Loosen keyway set screw in adjustable sheave and pull out the external key. **NOTE:** The end of the key projects a small amount to provide a gripping surface for removing. See Figure 5.
Sheaves with Barrel Flats: Loosen sheave set screw in adjustable sheave until adjustable flange rotates freely.
5. Adjust sheave pitch diameter for desired speed by opening rotating parts by half or full turn increments from closed position. **IMPORTANT:** Do not set the motor sheave to points not shown on the blower table for your application.
6. Sheaves with Barrel Flats: Tighten sheave set screw to 110 to 130 in-lb. with set screw located over the center of the barrel flat. **DO NOT TIGHTEN THE SET SCREW ON THE THREADED PART OF THE SHEAVE.**
Sheaves with Keyways: Replace key and tighten the set screw to 110 to 130 in-lb.
7. Install blower pulley and align the pulleys.
8. Install belts on the sheaves and adjust belt tension.

Mounting Split Taper Bushings in Split Taper Bushed Pulleys

Pre- Installation

- Make sure the shaft, bushing barrel & bore, split taper pulley bore, keys and keyways are free of burrs, paint, etc.
- The bushing may first be loosely installed into the split taper bored pulley, and then the assembly slid onto the shaft. For heavier pulley's, it may be easier to either first slide the bushing onto the shaft and then slide the pulley onto the bushing; however, if the bushing barrel has collapsed, it must be wedged open. See Figure 6.

CAUTION:

Excessive wedging forces in bushing saw slot may damage or break bushing.

- It may be necessary to slightly wedge open the saw slot (Figure 7) on some bushings in order to start the bore and position the bushing onto the shaft. A narrow edged regular screw driver may be used.

Pulley Installation

1. Align the keyway in the bushing bore with the shaft keyway and install the key. Make sure the key runs the entire length of the bushing bore. See Figure 7.
2. Position the pulley so the keyway in the bore is aligned with the external (barrel) key in the bushing. **NOTE:** Bushings do not have an external key. The threaded holes in the pulley must be aligned with the non-threaded holes in the bushing flange. Insert the cap screws through the non-threaded holes in the bushing flange and thread them by hand into the pulley three or four turns.
3. Position the bushing & pulley assembly axially on the shaft such that it is aligned with its running mate. **NOTE:** Check for adequate clearance between the assembly and other nearby components (if applicable). Various shaft sizes are listed in Table 5.
4. Install cap screws and tighten by hand first. **NOTE:** If cap screws were provided with the pulley, use them instead of the ones provided with the bushing. Since tightening the cap screws may affect the axial position of the pulley, confirm

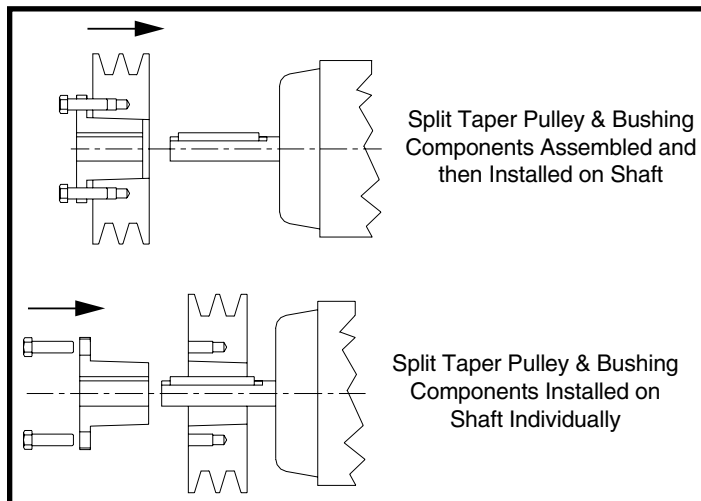


Figure 6. Split Taper Bushing & Pulley Assembly Options

that the pulley is properly aligned with its running mate. If not, determine how much the assembly must be moved into proper alignment. Split taper tightening torques are listed in Table 6.

5. If axial adjustment is required, first attempt to move the motor sheave to properly align the drive belt.
6. Check installation gap. **NOTE:** There must be a gap between the bushing flange and the pulley face. If there is no gap between them, disassemble the parts and determine the reason(s) for the faulty assembly.

Pulley Removal

1. Remove all cap screws in sequence. If the bushing has a keyway set screw, loosen it.
2. Insert cap screws in all threaded bushing flange holes. Tighten the cap screws against the (hub) face of the pulley until the screw force releases the pulley from the bushing.
3. Remove the bushing and pulley from the shaft.

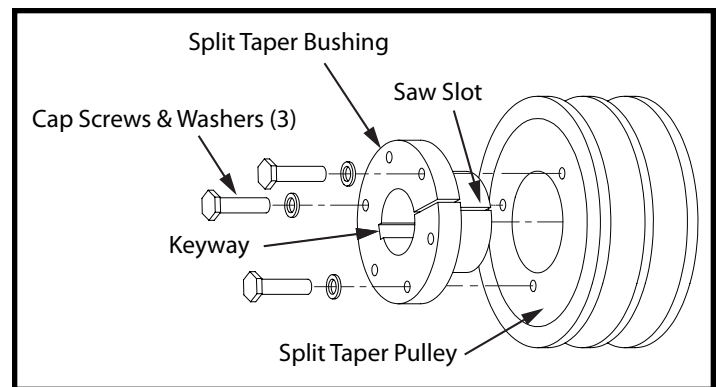


Figure 7. Split Taper Bushing & Pulley Assembly

SHAFT SIZE RANGE (IN)		LOWER SHAFT SIZE LIMIT (IN)	SHAFT SIZE RANGE (IN)		LOWER SHAFT SIZE LIMIT (MM)
Above	Through		Above	Through	
—	1 1/2	-0.003	—	38.1	-0.076
1 1/2	2 1/2	-0.004	38.1	63.5	-0.102
2 1/2	4	-0.005	63.5	101.6	-0.127
4	6	-0.006	101.6	152.4	-0.152
6	8	-0.007	152.4	203.2	-0.178
8	9	-0.008	203.2	228.6	-0.203
9	—	-0.009	228.6	—	-0.229

Table 5. Shaft Size Limits for Split Taper Bushings

Bushing	SAE Grade 5 Cap Screw		Cap Screw Torque			Set Screw Size	Set Screw Torque		
	No.	Size	(In-Lbs)	(Ft-Lbs)	(N-M)		(In-Lbs)	(Ft-Lbs)	(N-M)
G;H	2	1/4-20NC	95	8	10.7	-	-	-	-
P;B	3	5/16-18NC	192	16	21.7	-	-	-	-
Q	3	3/8-16NC	348	29	39.3	5/16-18NC	165*	13.8*	18.6*
R	3	3/8-16NC	348	29	39.3	5/16-18NC	165	13.8	18.6
S	3	3/8-16NC	840	140	189.8	3/8-16NC	290	24.2	32.8
U	3	5/8-11NC	1680	140	189.8	3/8-16NC	290	24.2	32.8
W	4	3/4-10NC	3000	250	339.0	1/2-13NC*	620*	51.7*	70.1*
YO	4	1-8NC	7200	600	813.5	1/2-13NC*	620*	51.7*	70.1*

Table 6. Split Taper Tightening Torques

V-Belt Alignment & Tensioning

IMPORTANT NOTE: Belt alignment is extremely critical for proper operation and life expectancy of belts and motor bearings. If not equipped with proper alignment tools, prior to removal of blower and motor pulley, measure center of each pulley to a reference point for replacement of new pulleys.

After installing the blower pulley onto the blower shaft, use an in-groove belt alignment tool to verify the parallel offset of the sheave and pulley. If a laser alignment tool is unavailable, place a straight edge, piano wire, or string in the center of the adjustable sheave and pulley V-notch to adjust parallel offset alignments.

NOTE: The straight edge, piano wire or string should be close to the center of the groove and contact each sheave in two places. The objective is to have the center lines of the two sheaves in line. Belt drives should be aligned as perfect as possible to maximize drive life. See Figure 8.

Calculate or measure the belt span length as shown in Figures 9 & 10. Calculate the required deflection by multiplying this number by 1/64. For example, if the belt span is 32 inches, $32 \times 1/64 = 1/2$ inch deflection. **NOTE:** Excessively high or low tensions will affect belt life. Check belt tensions again after 24 hours of operation. Keep extra belts stored in a cool, dark, dry place.

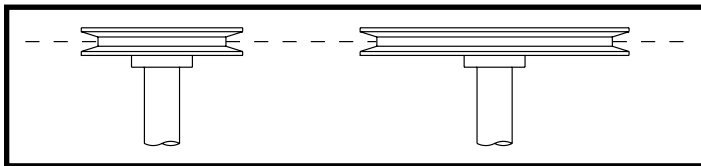


Figure 8. V-Belt Alignment

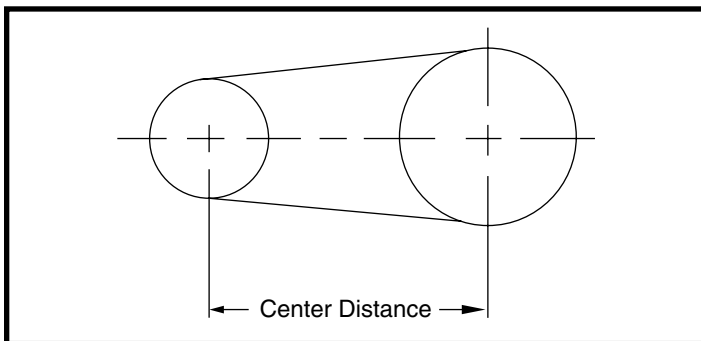


Figure 9. Pulley Alignment

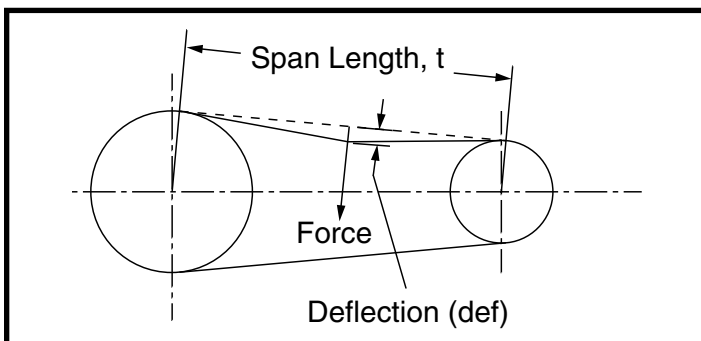


Figure 10. Tensioning V-Belts

On 12.5-15T Models: The belt tension is controlled utilizing the adjustable motor mounting plate. To release the belt tension, first loosen the 4 motor mounting nuts that attach the motor to the mounting plate approximately $\frac{1}{2}$ -1 turn and then use the adjusting bolt to release the belt tension. To tighten, complete the steps in the reverse order.

On 6-10T Packaged Models: The belt tension is controlled utilizing the belt-tensioning bars on the top and bottom of the motor mounting plate. To release the belts tension, first loosen the bolts in the adjustable slot of each tensioning bar first, followed by the second bolt in each tensioning bar. Swing the motor & motor plate assembly towards the blower. To tighten, use a pry-bar to apply pressure to the top of the motor plate and tighten the top belt tensioning bar. Verify the motor is plumb and that the shaft is vertically aligned by adjusting the bottom of the motor plate, then tighten the bottom tensioning bar bolts. When complete, always verify the belt tension and alignment, do not over-tighten.

VERIFYING THE INSTALLATION

Line Voltage

Maximum circuit ampacity and maximum overcurrent protection ratings may vary. See the unit rating plate for proper electrical ratings. **NOTE:** Older equipment may not include a rating plate that shows the HSDK maximum overcurrent protection and other electrical data for the kit. Always verify this information with the installation instructions included with the unit.

- Verify that the power supply for the unit is in accordance with the units wiring diagram and rating plate. Use only copper wire for the line voltage supply to this unit. Use proper code agency listed conduit and connector for connecting the supply wires.
- Verify all electrical connections are in accordance with all applicable codes and ordinances. Any other wiring methods must be acceptable to authority having jurisdiction. Refer to the National Electric Code for recommended wire size.
- Verify overcurrent protection is provided at the branch circuit distribution panel and sized as shown on the unit rating label and according to the National Electric Code and applicable local codes.

Grounding

WARNING:

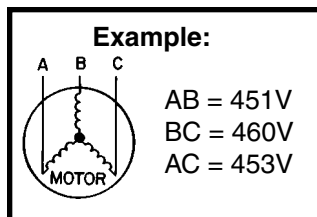
The unit cabinet must have an uninterrupted or unbroken electrical ground to minimize personal injury if an electrical fault should occur. Do not use gas piping as an electrical ground!

This unit must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code (ANSI/NFPA 70) or the CSA C22.1 Electrical Code.

Unbalanced 3-Phase Supply Voltage

Voltage unbalance occurs when the voltages of all phases of a 3-phase power supply are no longer equal. This unbalance reduces motor efficiency and performance. Some underlying causes of voltage unbalance may include: Lack of symmetry in transmission lines, large single-phase loads, and unbalanced or overloaded transformers. A motor should never be operated with a phase imbalance (in supply) that is greater than 2%. Perform the following steps to determine the percentage of voltage imbalance:

1. Measure the line voltages of your 3-phase power supply where it enters the building and at a location that will only be dedicated to the unit installation. (at the unit's circuit protection or disconnect).



2. Determine the average voltage in the power supply.

In this example, the measured line voltages were 451, 460, and 453. The average would be 454 volts ($451 + 460 + 453 = 1,364 / 3 = 454$).

3. Determine the maximum deviation:

Example:

From the values given in step 1, the BC voltage (460V) is the greatest difference in value from the average:

$$\begin{aligned} 460 - 454 &= 6 \leftarrow \text{Highest Value} \\ 454 - 451 &= 3 \\ 454 - 453 &= 1 \end{aligned}$$

4. Determine percent of voltage imbalance by using the results from steps 2 & 3 in the following equation.

Example:

$$100 \times \frac{6}{454} = 1.32\%$$

$$\% \text{ Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

The amount of phase imbalance (1.32%) is satisfactory since the amount is lower than the maximum allowable 2%. Please contact your local electric utility company if your voltage imbalance is more than 2%.

Blower Speed

The blower speed for these accessory kits is not set at the factory and must be verified for each installation. For optimum system performance and comfort, refer to blower performance data (Tables 7 - 28, pages 11 - 32) for proper operating range. Always verify drive belt are secure and tensioned properly. Also inspect variable pitch sheaves for proper tightness of the set screws.

Measuring the Blower Speed

For units equipped with either an electric heat kit or gas heat exchanger, the best method to determine the delivered CFM is through a temperature rise measurement. Using quality instruments, insert a temperature probe into the units supply and return ducts. Provide the unit a call for the maximum heat capability and either calculate the airflow for the measured temperature rise or reference Tables 29 or 30 (page 33) to estimate the CFM.

NOTE: For high static situations, never operate the blower with the access panels removed for any length of time as the blower motor may over-amp and trip the internal/external protection. If it is desired to verify the blower RPM, always use a remote indicator with the access panels closed.

To verify the blower rotation, the contactor can be manually actuated for a brief period to "bump" the motor or the **G** terminal can be briefly energized from **R**.

If necessary adjust the motor sheave to optimize the air delivery. Always verify the motor amp draw at the contactor to ensure it is less than the SFA for the unit/motor voltages at the selected sheave setting

CAUTION:

To avoid personal injury or property damage, make certain that the motor leads do not make contact with any uninsulated metal components of the unit.

Changing the blower speed:

1. Disconnect all electrical power to the unit and remove the blower access panel.
2. Loosen the motor tension bars to allow removal of the blower belt from the motor sheave.
3. Loosen top set screw on motor sheave and turn clockwise to close (increases blower speed), or counterclockwise to open (decreases blower speed). **NOTE:** Make sure the center of the sheave and pulley are properly aligned. Adjust the sheave and pulley's position on the motor or blower shaft if necessary.
4. Replace belt on pulleys and position motor mounting plate to correct position for proper belt tension.
5. Tighten tension bar bolts or adjustable motor base.

External Motor Overload

If installed, Verify that the overload is properly set for the motor SFA and that it will trip when manually tested.

AIRFLOW DATA FOR P6SP SERIES

This equipment is outfitted with a belt driven blower assembly in order to accommodate a large variety of duct configurations and airflow selections. The blower has been factory inspected for proper alignment, operation and rotational direction prior to the drive motor being situated in the shipping position. The blower drive belt is located with these instructions and must be installed by the service technician. For a more detailed explanation of belt driven blower drives and the operation of their components please refer to any of the installation instructions listed below for the high static drive kits.

The factory standard drive installed in these units has been set to deliver 400 Cfm/ton at an External Static Pressure (ESP) of 0.25-0.30 in-Wg. Tables 5-10 show the full blower curves of these drive configurations and can be utilized to easily set the adjustable motor sheave for alternate configurations. Refer to the Legend below for a description of the table information. Once a sheave setting has been made, always inspect the blower amp draw to ensure that it is less then the service factor amps listed on the motor. For systems that include a large number of accessories or have very restrictive duct systems, alternate drive kits are available – refer to table 4 below for the applicable kits. The full blower curves for the HSD kits can be found in the applicable kit installation instructions or in the unit technical service literature.

3862
1159
3.03

Indicates a recommended unit operational point

3493
1017
2.07

Indicates an allowable setting that is not recommended for unit operation[†]
[†] These operational points should be carefully examined by the installer for proper unit setup and heater operation if used.



Indicates a setting that is not permitted for unit operation

P6SP-072*

MSD kits:

920609 (208-230V, 3Ø, 60 Hz)

920560 (460V, 3Ø, 60 Hz)

‡ Indicates Factory Sheave Setting for Pre-configured Units

Downflow Performance Chart

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open ‡	2.0 Turns Open	2.5 Turns Open	3.0 Turns Open	3.5 Turns Open	4.0 Turns Open	4.5 Turns Open	5.0 Turns Open	5.5 Turns Open	6.0 Turns Open
0.8	CFM													
	RPM													
	kW													
0.9	CFM							2598	2437	2275	2097	1919		
	RPM							1039	1014	988	960	931		
	kW							1.23	1.10	0.97	0.87	0.77		
1.0	CFM						2595	2405	2232	2059				
	RPM						1066	1040	1016	991				
	kW						1.29	1.13	1.01	0.89				
1.1	CFM				2770	2558	2392	2225						
	RPM				1123	1098	1071	1044						
	kW				1.55	1.36	1.20	1.04						
1.2	CFM				2563	2401	2222	2043						
	RPM				1127	1102	1076	1049						
	kW				1.41	1.25	1.13	1.00						
1.3	CFM			2557	2402	2246								
	RPM			1155	1129	1103								
	kW			1.47	1.33	1.19								
1.4	CFM			2357	2182	2006								
	RPM			1157	1131	1105								
	kW			1.40	1.25	1.09								
1.5	CFM		2455	2267										
	RPM		1185	1160										
	kW		1.45	1.35										
1.6	CFM		2241											
	RPM		1189											
	kW		1.40											

Values includes losses for: Unit Casing, 2" Disposable Filters & Dry Evaporator Coil

Values shown reflect operation at 230V or 460V. For operation at 208V, deduct 0.025 from unit static.

Deduct 250 Cfm for electric heater kits

**Table 7. Blower Performance for P6SP-072* Units
(6 Ton Downflow Models Only)**

Horizontal Flow Performance Chart*

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open ‡	2.0 Turns Open	2.5 Turns Open	3.0 Turns Open	3.5 Turns Open	4.0 Turns Open	4.5 Turns Open	5.0 Turns Open	5.5 Turns Open	6.0 Turns Open	
0.8	CFM														
	RPM														
	kW														
0.9	CFM									2716	2500	2284			
	RPM									985	956	926			
	kW									1.17	1.05	0.93			
1.0	CFM								2677	2491	2250				
	RPM								1012	987	959				
	kW								1.23	1.09	0.94				
1.1	CFM							2682	2469	2255					
	RPM							1039	1015	990					
	kW							1.29	1.13	0.98					
1.2	CFM						2663	2452							
	RPM						1067	1041							
	kW						1.35	1.18							
1.3	CFM					2710	2465	2219							
	RPM					1096	1071	1046							
	kW					1.45	1.26	1.07							
1.4	CFM				2675	2492									
	RPM				1126	1100									
	kW				1.47	1.33									
1.5	CFM				2487	2195									
	RPM				1133	1109									
	kW				1.37	1.17									
1.6	CFM			2558	2208										
	RPM			1159	1137										
	kW			1.48	1.20										

*Requires horizontal conversion kit. Please refer to unit TSL for kit number.

Values includes losses for: Unit Casing, 2" Disposable Filters & Dry Evaporator Coil

Values shown reflect operation at 230V or 460V. For operation at 208V, deduct 0.025 from unit static.

Deduct 250 Cfm for electric heater kits

**Table 8. Blower Performance for P6SP-072* Units
(6 Ton Horizontal Models Only)**

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open ‡	
0.1	CFM												3726	3592	
	RPM												911	884	
	kW												1.59	1.44	
0.2	CFM											3729	3593	3457	
	RPM											939	913	887	
	kW											1.66	1.52	1.39	
0.3	CFM										3724	3586	3449	3312	
	RPM										968	940	915	889	
	kW										1.75	1.59	1.45	1.31	
0.4	CFM									3732	3592	3451	3303	3155	
	RPM									998	970	943	916	890	
	kW									1.82	1.66	1.50	1.37	1.24	
0.5	CFM								3730	3594	3448	3301	3148	2995	
	RPM								1024	1000	973	945	918	891	
	kW								1.91	1.75	1.59	1.44	1.30	1.17	
0.6	CFM							3737	3597	3457	3308	3158	2988	2818	
	RPM							1051	1027	1003	975	947	921	894	
	kW							1.98	1.82	1.66	1.50	1.35	1.22	1.10	
0.7	CFM						3635	3598	3458	3318	3146	2974	2799	2624	
	RPM						1079	1054	1030	1005	977	949	923	897	
	kW						1.98	1.89	1.73	1.57	1.42	1.27	1.14	1.01	
0.8	CFM					3532	3490	3447	3301	3154	2963	2771	2581	2391	
	RPM					1106	1082	1057	1032	1007	979	951	925	899	
	kW					1.99	1.89	1.79	1.64	1.48	1.32	1.17	1.04	0.91	
0.9	CFM				3513	3402	3348	3293	3135	2976	2765	2553	2327		
	RPM				1130	1109	1085	1060	1035	1009	981	953	927		
	kW				2.03	1.88	1.79	1.70	1.54	1.38	1.22	1.07	0.94		
1.0	CFM				3377	3251	3191	3130	2956	2781	2536	2291			
	RPM				1133	1112	1087	1061	1036	1011	985	959			
	kW				1.93	1.77	1.68	1.59	1.44	1.28	1.12	0.96			
1.1	CFM			3354	3220	3085	3010	2934	2744	2554	2246				
	RPM			1157	1136	1115	1089	1062	1037	1012	988				
	kW			1.99	1.83	1.67	1.58	1.48	1.32	1.17	0.99				
1.2	CFM		3309	3204	3039	2874	2805	2735	2498	2261					
	RPM		1178	1159	1139	1118	1092	1066	1041	1015					
	kW		2.00	1.88	1.71	1.55	1.46	1.36	1.20	1.03					
1.3	CFM	3286	3158	3006	2850	2693	2596	2498							
	RPM	1200	1182	1163	1142	1121	1096	1070							
	kW	2.03	1.88	1.76	1.59	1.43	1.33	1.24							
1.4	CFM	3125	2996	2837	2652	2466									
	RPM	1204	1185	1167	1146	1124									
	kW	1.90	1.74	1.63	1.47	1.31									
1.5	CFM	2938	2790	2602	2428	2253									
	RPM	1208	1187	1170	1149	1127									
	kW	1.77	1.65	1.49	1.34	1.19									
1.6	CFM	2727	2575	2378											
	RPM	1212	1192	1173											
	kW	1.64	1.50	1.37											
1.7	CFM	2529	2328												
	RPM	1216	1197												
	kW	1.51	1.36												
1.8	CFM														
	RPM														
	kW														

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 9. Blower Performance for P6SP-090* Units
(7.5 Ton Downflow Models Only)**

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open ‡
0.1	CFM													3688
	RPM													874
	kW													1.46
0.2	CFM												3673	3523
	RPM												905	876
	kW												1.53	1.38
0.3	CFM											3668	3521	3374
	RPM											935	907	878
	kW											1.60	1.45	1.30
0.4	CFM										3662	3516	3363	3209
	RPM										963	938	910	882
	kW										1.66	1.51	1.37	1.23
0.5	CFM							3799	3656	3509	3362	3206	3049	
	RPM							1018	991	966	940	913	885	
	kW							1.91	1.73	1.58	1.43	1.29	1.15	
0.6	CFM							3658	3503	3349	3195	3028	2861	
	RPM							1022	996	969	942	915	888	
	kW							1.81	1.64	1.49	1.34	1.21	1.08	
0.7	CFM							3667	3512	3357	3193	3029	2847	2665
	RPM							1050	1026	1001	972	943	917	890
	kW							1.90	1.72	1.55	1.40	1.25	1.12	0.99
0.8	CFM						3669	3518	3359	3199	3019	2838	2637	2436
	RPM						1077	1054	1028	1003	975	948	920	893
	kW						1.97	1.80	1.63	1.46	1.31	1.17	1.03	0.90
0.9	CFM					3526	3371	3200	3028	2828	2628	2395		
	RPM					1079	1057	1031	1005	979	952	924		
	kW					1.87	1.70	1.53	1.37	1.22	1.07	0.93		
1.0	CFM					3528	3365	3201	3011	2821	2602	2382		
	RPM					1106	1083	1060	1034	1008	981	954		
	kW					1.95	1.77	1.59	1.42	1.26	1.11	0.96		
1.1	CFM				3510	3362	3195	3028	2812	2596	2343			
	RPM				1130	1110	1087	1063	1037	1010	983			
	kW				2.01	1.83	1.66	1.48	1.31	1.14	0.99			
1.2	CFM				3342	3192	2999	2806	2573	2339				
	RPM				1134	1114	1090	1066	1041	1016				
	kW				1.89	1.72	1.54	1.36	1.18	1.01				
1.3	CFM			3336	3167	2998	2794	2589						
	RPM			1158	1138	1117	1093	1069						
	kW			1.93	1.76	1.59	1.41	1.23						
1.4	CFM		3311	3145	2971	2796	2551	2305						
	RPM		1177	1161	1142	1122	1097	1071						
	kW		1.99	1.80	1.63	1.46	1.28	1.10						
1.5	CFM	3268	3117	2950	2746	2542								
	RPM	1200	1180	1166	1147	1127								
	kW	2.03	1.85	1.66	1.49	1.32								
1.6	CFM	3090	2930	2733	2470	2207								
	RPM	1203	1183	1171	1151	1130								
	kW	1.88	1.73	1.53	1.33	1.14								
1.7	CFM	2898	2724	2470										
	RPM	1206	1185	1175										
	kW	1.75	1.59	1.38										
1.8	CFM	2661	2447											
	RPM	1209	1194											
	kW	1.60	1.42											

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 10. Blower Performance for P6SP-090* Units
(7.5 Ton Horizontal Models Only)**

P6SP-120(C/D)a & Q6SP-120(C/D)a

MSD kit:

921645 (208-230/460V, 3Ø, 60 Hz)

Medium Static: 2Hp Downflow Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open
0.1	CFM								4927	4785	4611	4436	4266	4095
	RPM								757	737	714	691	671	650
	kW								1.90	1.78	1.64	1.50	1.36	1.22
0.2	CFM							4908	4747	4586	4395	4204	4034	3864
	RPM							778	759	739	716	693	673	652
	kW							1.95	1.82	1.69	1.55	1.42	1.28	1.14
0.3	CFM							4724	4547	4369	4169	3968	3788	3608
	RPM							780	761	741	718	695	675	654
	kW							1.87	1.73	1.59	1.47	1.34	1.21	1.07
0.4	CFM						4657	4497	4320	4142	3938	3734	3532	3304
	RPM						801	783	763	743	720	697	674	656
	kW						1.93	1.75	1.62	1.50	1.37	1.25	1.09	1.00
0.5	CFM					4599	4439	4278	4083	3888	3664	3439	3228	2996
	RPM					820	803	785	765	745	722	699	676	658
	kW					2.01	1.84	1.67	1.54	1.41	1.29	1.17	1.01	0.91
0.6	CFM					4387	4225	4063	3852	3641	3412	3119		
	RPM					823	805	787	767	747	723	701		
	kW					1.91	1.73	1.56	1.44	1.33	1.12	1.07		
0.7	CFM				4420	4159	3989	3818	3582	3345	3038			
	RPM				849	825	808	790	770	749	725			
	kW				1.93	1.79	1.62	1.46	1.34	1.22	1.00			
0.8	CFM				4147	3922	3723	3524	3233	2977				
	RPM				847	827	809	791	770	750				
	kW				1.86	1.69	1.51	1.33	1.19	1.06				
0.9	CFM			4163	3899	3635	3364	3092						
	RPM			869	849	829	811	793						
	kW			1.92	1.74	1.57	1.37	1.17						
1.0	CFM		4084	3898	3540	3233	2974							
	RPM		887	871	852	831	815							
	kW		1.94	1.79	1.62	1.40	1.22							
1.1	CFM	3971	3758	3544	3180									
	RPM	905	889	873	854									
	kW	1.90	1.77	1.63	1.48									
1.2	CFM	3640	3403	3166										
	RPM	907	892	876										
	kW	1.71	1.59	1.47										
1.3	CFM	3358	3112											
	RPM	909	896											
	kW	1.60	1.48											
1.4	CFM	3029												
	RPM	911												
	kW	1.45												

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 11. Blower Performance for P6SP-120* & Q6SP-120* Units
(10 Ton Downflow Models Only)**

P6SP-120(C/D)a & Q6SP-120(C/D)a

MSD KIT:

921645 (208-230/460V, 3Ø, 60 Hz)

Medium Static: 2Hp Horizontal Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open
0.1	CFM								4873	4717	4567	4417	4263	4109
	RPM								761	739	720	700	680	659
	kW								1.87	1.71	1.58	1.46	1.34	1.22
0.2	CFM							4876	4709	4542	4380	4217	4055	3892
	RPM							784	763	741	722	703	682	661
	kW							1.95	1.79	1.63	1.50	1.38	1.26	1.15
0.3	CFM							4690	4513	4336	4163	3990	3814	3637
	RPM							786	765	743	724	705	684	663
	kW							1.88	1.72	1.55	1.43	1.30	1.18	1.07
0.4	CFM						4651	4495	4306	4116	3936	3756	3556	3356
	RPM						809	789	767	745	726	707	687	666
	kW						1.94	1.79	1.62	1.46	1.33	1.21	1.10	0.99
0.5	CFM					4639	4453	4267	4077	3887	3672	3457	3257	3057
	RPM					831	811	791	769	747	728	708	689	669
	kW					2.01	1.84	1.68	1.52	1.36	1.23	1.10	1.00	0.90
0.6	CFM					4420	4225	4029	3820	3611	3393	3174	2953	
	RPM					833	813	793	771	749	730	710	692	
	kW					1.89	1.73	1.58	1.42	1.26	1.13	1.01	0.91	
0.7	CFM				4370	4199	3998	3796	3550	3303	3075			
	RPM				850	834	815	795	773	751	732			
	kW				1.98	1.78	1.63	1.47	1.30	1.13	1.02			
0.8	CFM				4128	3972	3747	3521	3233	2945				
	RPM				852	836	817	797	776	754				
	kW				1.85	1.67	1.51	1.36	1.19	1.03				
0.9	CFM			4080	3897	3713	3468	3222						
	RPM			870	855	839	819	799						
	kW			1.93	1.74	1.56	1.40	1.24						
1.0	CFM		4037	3843	3635	3427								
	RPM		891	873	857	841								
	kW		1.96	1.80	1.61	1.43								
1.1	CFM	3988	3782	3576	3316	3055								
	RPM	912	894	876	860	844								
	kW	1.98	1.82	1.67	1.47	1.28								
1.2	CFM	3726	3502	3278										
	RPM	915	897	879										
	kW	1.85	1.69	1.54										
1.3	CFM	3450	3133											
	RPM	918	900											
	kW	1.72	1.54											
1.4	CFM	3061												
	RPM	919												
	kW	1.55												

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 12. Blower Performance for P6SP-120* & Q6SP-120* Units
(10 Ton Horizontal Models Only)**

AIRFLOW DATA FOR Q6SP SERIES

Q6SP-090(C/D)a

MSD KIT:

921646 (208-230/460V, 3Ø, 60 Hz)

Medium Static: 1.5Hp Down-flow Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open	
0.1	CFM									3793	3594	3395			
	RPM									603	578	552			
	kW									0.92	0.82	0.71			
0.2	CFM								3732	3534	3321	3107			
	RPM								627	605	580	555			
	kW								0.97	0.86	0.76	0.65			
0.3	CFM							3671	3463	3255	3025	2794			
	RPM							650	629	607	582	557			
	kW							1.00	0.89	0.79	0.69	0.59			
0.4	CFM						3588	3364	3147	2929	2661	2393			
	RPM						674	652	631	609	585	560			
	kW						1.04	0.92	0.81	0.71	0.61	0.51			
0.5	CFM				3740	3518	3292	3066	2802	2537	2208				
	RPM				722	698	676	654	633	611	588				
	kW				1.23	1.09	0.96	0.83	0.73	0.62	0.53				
0.6	CFM			3720	3479	3237	2954	2670	2382						
	RPM			747	724	701	679	656	635						
	kW			1.28	1.14	1.00	0.87	0.74	0.63						
0.7	CFM		3683	3434	3170	2906	2559	2211							
	RPM		773	749	726	703	681	659							
	kW		1.31	1.17	1.03	0.90	0.76	0.63							
0.8	CFM	3679	3405	3136	2801	2465									
	RPM	799	775	751	728	705									
	kW	1.36	1.21	1.06	0.92	0.78									
0.9	CFM	3407	3106	2760	2106										
	RPM	801	777	753	732										
	kW	1.25	1.10	0.94	0.75										
1.0	CFM	3111	2715												
	RPM	804	779												
	kW	1.13	0.97												
1.1	CFM	2693													
	RPM	806													
	kW	1.00													
1.2	CFM														
	RPM														
	kW														

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 13. Blower Performance for Q6SP-090* Units
(7.5 Ton Downflow Models Only)**

Q6SP-090(C/D)a**MSD KIT:**

921646 (208-230/460V, 3Ø, 60 Hz)

Medium Static: 1.5Hp Horizontal Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open
0.1	CFM									3745	3552	3359		
	RPM									599	576	552		
	kW									0.90	0.80	0.71		
0.2	CFM								3685	3488	3288	3088		
	RPM								626	602	579	555		
	kW								0.93	0.83	0.74	0.65		
0.3	CFM							3641	3424	3207	2980	2753		
	RPM							651	628	604	580	556		
	kW							0.96	0.86	0.76	0.67	0.58		
0.4	CFM					3798	3582	3366	3136	2905	2636	2366		
	RPM					701	677	652	630	608	583	557		
	kW					1.12	1.00	0.88	0.78	0.68	0.59	0.51		
0.5	CFM				3746	3537	3298	3058	2800	2541	2190			
	RPM				726	702	679	656	633	609	584			
	kW				1.18	1.04	0.92	0.80	0.70	0.60	0.51			
0.6	CFM			3725	3493	3260	2975	2690	2352					
	RPM			751	728	705	682	658	635					
	kW			1.22	1.09	0.95	0.83	0.71	0.60					
0.7	CFM		3686	3469	3190	2911	2564	2217						
	RPM		774	753	731	709	685	661						
	kW		1.28	1.12	0.98	0.84	0.72	0.60						
0.8	CFM	3650	3400	3150	2811	2471								
	RPM	797	777	756	733	710								
	kW	1.32	1.17	1.02	0.87	0.73								
0.9	CFM	3355	3056	2756										
	RPM	801	780	758										
	kW	1.21	1.05	0.90										
1.0	CFM	3044	2434											
	RPM	803	785											
	kW	1.10	0.88											
1.1	CFM	2594												
	RPM	807												
	kW	0.95												
1.2	CFM													
	RPM													
	kW													
1.3	CFM													
	RPM													
	kW													
1.4	CFM													
	RPM													
	kW													

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 14. Blower Performance for Q6SP-090* Units
(7.5 Ton Horizontal Models Only)**

AIRFLOW DATA FOR HIGH STATIC DRIVES

Q6SP-090(C/D)a

MSD KIT:

921647 (208-230/460V, 3Ø, 60 Hz)

High Static: 2Hp Downflow Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open ‡	
0.4	CFM												3829	3632	
	RPM												698	677	
	kW												1.21	1.08	
0.5	CFM											3777	3571	3365	
	RPM											723	702	680	
	kW											1.24	1.11	0.98	
0.6	CFM										3719	3506	3283	3060	
	RPM										746	725	704	683	
	kW										1.28	1.14	1.01	0.89	
0.7	CFM									3684	3445	3206	2944	2682	
	RPM									767	748	728	707	685	
	kW									1.32	1.18	1.04	0.91	0.79	
0.8	CFM								3617	3385	3111	2837	2287		
	RPM								793	772	751	729	708		
	kW								1.36	1.21	1.06	0.92	0.75		
0.9	CFM							3610	3327	3043	2718	2392			
	RPM							815	795	774	753	732			
	kW							1.40	1.24	1.08	0.94	0.79			
1.0	CFM					3759	3510	3260	2666						
	RPM					855	837	818	799						
	kW					1.56	1.41	1.25	1.03						
1.1	CFM				3689	3481	3194	2907							
	RPM				874	856	838	819							
	kW				1.62	1.44	1.28	1.12							
1.2	CFM		3778	3611	3383	3155	2535								
	RPM		909	895	879	862	844								
	kW		1.82	1.65	1.48	1.31	1.07								
1.3	CFM	3681	3482	3283	2703										
	RPM	925	913	900	884										
	kW	1.85	1.68	1.51	1.25										
1.4	CFM	3349	2795	2240											
	RPM	929	918	906											
	kW	1.70	1.41	1.12											
1.5	CFM	2970													
	RPM	935													
	kW	1.54													

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 15. Blower Performance for Q6SP-090* Units
(7.5 Ton Downflow Models Only)**

Q6SP-090(C/D)a**MSD KIT:**

921647 (208-230/460V, 3Ø, 60 Hz)

High Static: 2Hp Horizontal Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open ‡
0.4	CFM												3813	3624
	RPM												702	680
	kW												1.20	1.07
0.5	CFM											3767	3561	3355
	RPM											725	704	682
	kW											1.23	1.11	0.98
0.6	CFM										3702	3486	3270	3054
	RPM										747	727	706	685
	kW										1.26	1.13	1.01	0.90
0.7	CFM									3659	3423	3187	2932	2677
	RPM									769	749	729	708	687
	kW									1.31	1.18	1.04	0.92	0.79
0.8	CFM							3815	3589	3362	3089	2815	2254	
	RPM							812	792	771	751	731	710	
	kW							1.49	1.34	1.19	1.06	0.93	0.76	
0.9	CFM						3782	3552	3280	3007	2415			
	RPM						836	815	795	774	755			
	kW						1.54	1.37	1.22	1.07	0.88			
1.0	CFM					3715	3464	3213	2887	2560				
	RPM					858	838	817	797	777				
	kW					1.61	1.43	1.26	1.09	0.92				
1.1	CFM				3646	3427	3119	2810						
	RPM				877	860	840	820						
	kW				1.64	1.47	1.28	1.10						
1.2	CFM		3779	3568	3310	3052	2429							
	RPM		908	895	879	863	846							
	kW		1.80	1.67	1.49	1.31	1.06							
1.3	CFM	3674	3499	3236	2617									
	RPM	925	911	897	882									
	kW	1.83	1.68	1.52	1.25									
1.4	CFM	3348	3158											
	RPM	927	913											
	kW	1.64	1.50											
1.5	CFM	2985												
	RPM	930												
	kW	1.50												

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

When utilized with H5HK Heater kits, not all operational points shown may be available for use. Refer to the H5HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

Deduct 250 Cfm for electric heater kit

**Table 16. Blower Performance for Q6SP-090* Units
(7.5 Ton Horizontal Models Only)**

AIRFLOW DATA FOR R6GP SERIES

R6GP-072(C/D)-100C

MSD KITS:

920609 (208-230V, 3Ø, 60 Hz)

920560 (460V, 3Ø, 60 Hz)

Medium Static: 1.5Hp Downflow Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open
0.7	CFM										2881	2710		
	RPM										943	916		
	kW										1.22	1.07		
0.8	CFM									2920	2644	2404		
	RPM									974	947	920		
	kW									1.25	1.10	0.92		
0.9	CFM								2857	2619	2336	2096		
	RPM								1003	979	951	924		
	kW								1.36	1.14	0.96	0.86		
1.0	CFM							2830	2607	2312	2043			
	RPM							1031	1008	984	956			
	kW							1.34	1.23	1.06	0.88			
1.1	CFM						2843	2535	2332	2010				
	RPM						1061	1035	1012	988				
	kW						1.39	1.23	1.11	0.88				
1.2	CFM					2743	2529	2225	2004					
	RPM					1089	1065	1039	1016					
	kW					1.48	1.27	1.06	0.97					
1.3	CFM				2754	2475	2231	2042						
	RPM				1121	1094	1069	1043						
	kW				1.51	1.28	1.13	1.01						
1.4	CFM				2512	2176	2046							
	RPM				1125	1099	1074							
	kW				1.38	1.16	1.08							
1.5	CFM			2450	2266									
	RPM			1154	1129									
	kW			4.38	1.23									
1.6	CFM			2292										
	RPM			1159										
	kW			1.34										

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil
For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 17. Blower Performance for R6GP-072* Units
(6 Ton Downflow Models Only)**

R6GP-072(C/D)-100C
MSD KIT:

920609 (208-230V, 3Ø, 60 Hz)

920560 (460V, 3Ø, 60 Hz)

Medium Static: 1.5Hp Horizontal Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open	
0.7	CFM										2909	2726			
	RPM										941	915			
	kW										1.22	1.08			
0.8	CFM									2846	2653	2459			
	RPM									971	944	917			
	kW									1.20	1.08	0.96			
0.9	CFM								2843	2618	2403	2188			
	RPM								1002	975	948	920			
	kW								1.30	1.12	0.98	0.84			
1.0	CFM							2786	2577	2367	2073	1865			
	RPM							1032	1006	980	952	924			
	kW							1.35	1.17	0.99	0.88	0.70			
1.1	CFM						2808	2562	2361	2085					
	RPM						1061	1037	1006	983					
	kW						1.44	1.21	1.07	0.93					
1.2	CFM					2834	2575	2328	2085						
	RPM					1089	1062	1041	1011						
	kW					1.51	1.31	1.10	0.95						
1.3	CFM					2601	2356	2048							
	RPM					1094	1066	1045							
	kW					1.36	1.18	0.98							
1.4	CFM				2580	2357	2126								
	RPM				1122	1099	1071								
	kW				1.46	1.25	1.12								
1.5	CFM			2569	2323	2129									
	RPM			1149	1125	1104									
	kW			1.51	1.33	1.16									
1.6	CFM			2307											
	RPM			1154											
	kW			1.37											

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil
For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 18. Blower Performance for R6GP-072* Units
(6 Ton Horizontal Models Only)**

R6GP-072(C/D)-166C**MSD KITS:**

920609 (208-230V, 3Ø, 60 Hz)

Medium Static: 1.5Hp Downflow Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open
0.7	CFM											2867		
	RPM											917		
	kW											1.08		
0.8	CFM									3054	2782	2509		
	RPM									975	948	921		
	kW									1.33	1.16	0.99		
0.9	CFM								2966	2736	2468	2200		
	RPM								1005	981	953	925		
	kW								1.42	1.22	1.04	0.85		
1.0	CFM							2925	2684	2443	2151			
	RPM							1033	1009	985	956			
	kW							1.42	1.22	1.01	0.88			
1.1	CFM						2868	2632	2351	2070				
	RPM						1062	1037	1013	988				
	kW						1.47	1.25	1.07	0.89				
1.2	CFM					2896	2589	2281	2143					
	RPM					1091	1066	1041	1019					
	kW					1.52	1.32	1.12	0.98					
1.3	CFM				2822	2546	2321	2095						
	RPM				1119	1098	1072	1046						
	kW				1.59	1.35	1.21	1.07						
1.4	CFM				2591	2280	2157							
	RPM				1124	1102	1078							
	kW				1.41	1.25	1.10							
1.5	CFM			2443	2365	2164								
	RPM			1157	1128	1108								
	kW			1.42	1.39	1.18								
1.6	CFM		2502	2344										
	RPM		1186	1161										
	kW		1.52	1.35										

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil
 For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 19. Blower Performance for R6GP-072*-166C Units
 (6 Ton Downflow Models Only)**

R6GP-072(C/D)-166C**MSD KIT:**

920613 (208-230V, 3Ø, 60 Hz)

920618 (460V, 3Ø, 60 Hz)

‡ Indicates Factory Sheave Setting for Pre-configured Units

Medium Static: 2Hp Horizontal Performance Chart

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open ‡	5 Turns Open	5.5 Turns Open	6 Turns Open	
0.9	CFM								2962	2755	2510	2265			
	1008								981	956	930				
	1.37								1.18	1.04	0.90				
1.0	CFM							2953	2732	2511	2240	1968			
	1038							1013	987	960	933				
	1.46							1.28	1.09	0.95	0.81				
1.1	CFM						2955	2714	2470	2225					
	1068						1042	1017	991						
	1.52						1.31	1.14	0.98						
1.2	CFM					2959	2708	2456	2214						
	1098					1073	1047	1021							
	1.61					1.41	1.21	1.02							
1.3	CFM				2917	2722	2446	2170							
	1128				1103	1077	1051								
	1.64				1.44	1.26	1.08								
1.4	CFM			2931	2696	2454	2204								
	1155			1131	1105	1082									
	1.70			1.54	1.31	1.11									
1.5	CFM		2922	2706	2473	2351									
	1181		1159	1137	1107										
	1.84		1.54	1.36	1.23										
1.6	CFM	2971	2713	2426	2232										
	1211	1187	1166	1143											
	1.89	1.66	1.43	1.27											
1.7	CFM	2727	2492												
	1216	1192													
	1.76	1.53													
1.8	CFM	2525													
	1223														
	1.63														

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil
 For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 20. Blower Performance for R6GP-072*-166C Units
 (6 Ton Horizontal Models Only)**

R6GP-090(C/D)-200Ca
Medium Static: 2Hp Downflow Performance Chart
MSD KIT:

921481 (208-230/460V, 3Ø, 60 Hz)

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open ‡
0.1	CFM													3757
	RPM													878
	kW													1.52
0.2	CFM												3737	3591
	RPM												907	879
	kW												1.57	1.42
0.3	CFM											3716	3554	3391
	RPM											936	908	880
	kW											1.63	1.48	1.33
0.4	CFM										3692	3537	3381	3225
	RPM										964	938	910	883
	kW										1.70	1.56	1.41	1.27
0.5	CFM									3667	3514	3360	3177	2993
	RPM									990	965	940	913	885
	kW									1.76	1.61	1.46	1.31	1.17
0.6	CFM								3666	3496	3327	3157	2959	2761
	RPM								1020	995	968	942	915	887
	kW								1.84	1.66	1.52	1.37	1.23	1.08
0.7	CFM							3670	3493	3315	3121	2927	2716	2504
	RPM							1049	1024	999	972	944	917	889
	kW							1.91	1.73	1.55	1.41	1.27	1.13	0.99
0.8	CFM						3631	3495	3299	3103	2901	2699		
	RPM						1075	1052	1027	1001	974	947		
	kW						1.96	1.79	1.62	1.45	1.31	1.17		
0.9	CFM					3603	3443	3283	3087	2890	2637			
	RPM					1101	1078	1055	1029	1003	976			
	kW					2.03	1.86	1.69	1.52	1.34	1.19			
1.0	CFM					3445	3267	3088	2857	2625				
	RPM					1105	1081	1058	1032	1006				
	kW					1.92	1.74	1.57	1.39	1.21				
1.1	CFM				3389	3205	3030	2855	2585					
	RPM				1129	1108	1085	1062	1035					
	kW				1.99	1.80	1.61	1.43	1.26					
1.2	CFM				3399	3215	3031	2820	2609					
	RPM				1152	1132	1112	1088	1065					
	kW				2.03	1.84	1.65	1.48	1.31					
1.3	CFM		3367	3160	2967	2773	2545							
	RPM		1174	1156	1136	1115	1091							
	kW		2.07	1.89	1.70	1.51	1.35							
1.4	CFM		3165	2931	2739	2547								
	RPM		1178	1160	1139	1118								
	kW		1.91	1.73	1.56	1.39								
1.5	CFM	3064	2929	2693										
	RPM	1199	1182	1164										
	kW	1.93	1.75	1.59										
1.6	CFM	2839	2683											
	RPM	1204	1188											
	kW	1.77	1.62											
1.7	CFM	2616												
	RPM	1208												
	kW	1.63												
1.8	CFM													
	RPM													
	kW													

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 21. Blower Performance for R6GP-090*-200C Units
(7.5 Ton Downflow Models Only)**

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open ‡
0.1	CFM													
	RPM													
	kW													
0.2	CFM													
	RPM													
	kW													
0.3	CFM													3783
	RPM													928
	kW													1.64
0.4	CFM												3749	3614
	RPM												952	930
	kW												1.69	1.54
0.5	CFM											3734	3582	3430
	RPM											977	954	932
	kW											1.73	1.60	1.46
0.6	CFM										3728	3600	3437	3274
	RPM										1002	979	957	934
	kW										1.81	1.66	1.52	1.37
0.7	CFM									3717	3573	3429	3258	3087
	RPM									1028	1004	981	959	936
	kW									1.87	1.72	1.57	1.43	1.29
0.8	CFM								3691	3538	3390	3241	3053	2865
	RPM								1054	1030	1007	983	961	939
	kW								1.94	1.75	1.60	1.46	1.32	1.19
0.9	CFM							3697	3528	3359	3188	3017	2814	2610
	RPM							1081	1057	1033	1009	986	963	941
	kW							2.02	1.83	1.64	1.50	1.35	1.21	1.07
1.0	CFM							3545	3368	3190	2986	2782	2543	
	RPM							1084	1060	1036	1012	988	966	
	kW							1.92	1.74	1.56	1.39	1.23	1.09	
1.1	CFM						3500	3340	3155	2969	2719			
	RPM						1110	1087	1063	1038	1015			
	kW						1.98	1.78	1.61	1.43	1.27			
1.2	CFM					3495	3318	3140	2904	2668				
	RPM					1135	1113	1090	1065	1039				
	kW					2.06	1.85	1.65	1.48	1.31				
1.3	CFM					3317	3111	2905	2641					
	RPM					1140	1117	1093	1067					
	kW					1.91	1.71	1.51	1.34					
1.4	CFM				3266	3095	2865	2634						
	RPM				1162	1145	1120	1096						
	kW				1.96	1.77	1.57	1.37						
1.5	CFM			3244	3047	2850	2584							
	RPM			1182	1166	1149	1124							
	kW			2.01	1.81	1.61	1.41							
1.6	CFM		3208	3020	2795	2570								
	RPM		1205	1186	1169	1153								
	kW		2.02	1.86	1.65	1.44								
1.7	CFM	3154	2957	2749										
	RPM	1221	1208	1189										
	kW	1.98	1.84	1.66										
1.8	CFM	2942	2709											
	RPM	1223	1212											
	kW	1.84	1.68											
1.9	CFM	2639												
	RPM	1227												
	kW	1.64												

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 22. Blower Performance for R6GP-090*-200C Units
(7.5 Ton Horizontal Models Only)**

R6GP-120(C/D)-235Ca
Medium Static: 2Hp Downflow Performance Chart
MSD KIT:

921645 (208-230/460V, 3Ø, 60 Hz)

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open ‡	5.5 Turns Open	6 Turns Open
0.1	CFM									5061	4896	4731	4558	4384
	RPM									736	715	694	673	651
	kW									1.86	1.72	1.57	1.44	1.31
0.2	CFM									4849	4679	4508	4321	4134
	RPM									737	716	696	674	653
	kW									1.77	1.63	1.49	1.35	1.22
0.3	CFM							5005	4816	4627	4447	4267	4071	3875
	RPM							781	760	738	718	697	676	655
	kW							2.01	1.83	1.66	1.52	1.38	1.25	1.12
0.4	CFM							4773	4593	4413	4202	3990	3777	3564
	RPM							782	762	741	720	698	678	657
	kW							1.92	1.74	1.56	1.42	1.29	1.15	1.02
0.5	CFM						4719	4534	4336	4137	3923	3708	3477	3245
	RPM						803	783	764	744	722	699	679	659
	kW						1.98	1.79	1.61	1.43	1.30	1.18	1.05	0.92
0.6	CFM					4685	4479	4273	4059	3845	3603	3361		
	RPM					826	806	786	766	746	724	703		
	kW					2.04	1.85	1.66	1.50	1.33	1.19	1.05		
0.7	CFM					4457	4236	4014	3773	3531	3243			
	RPM					828	808	788	768	747	727			
	kW					1.91	1.72	1.54	1.37	1.20	1.06			
0.8	CFM			4601	4395	4188	3940	3692	3412					
	RPM			867	849	832	811	791	771					
	kW			2.15	1.97	1.78	1.59	1.40	1.22					
0.9	CFM			4326	4110	3893	3609	3325						
	RPM			870	853	835	814	793						
	kW			2.01	1.82	1.63	1.44	1.26						
1.0	CFM		4251	3998	3765	3531	3252							
	RPM		890	872	855	839	817							
	kW		2.03	1.82	1.64	1.45	1.28							
1.1	CFM		3917	3675	3434	3192								
	RPM		894	874	858	842								
	kW		1.83	1.66	1.48	1.31								
1.2	CFM	3845	3605	3358										
	RPM	910	897	878										
	kW	1.89	1.68	1.51										
1.3	CFM	3551	3274											
	RPM	913	900											
	kW	1.73	1.53											
1.4	CFM	3168												
	RPM	916												
	kW	1.56												
1.5	CFM													
	RPM													
	kW													
1.6	CFM													
	RPM													
	kW													

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil
For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 23. Blower Performance for R6GP-120*-235C Units
(10 Ton Downflow Models Only)**

R6GP-120(C/D)-235Ca
MSD KIT:

921645 (208-230/460V, 3Ø, 60 Hz)

Medium Static: 2Hp Horizontal Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open ‡	5.5 Turns Open	6 Turns Open	
0.1	CFM									5020	4871	4722	4536	4350	
	RPM									736	717	697	675	653	
	kW									1.82	1.68	1.53	1.41	1.29	
0.2	CFM									4783	4619	4454	4271	4087	
	RPM									738	718	698	676	655	
	kW									1.73	1.59	1.45	1.33	1.20	
0.3	CFM							4986	4785	4584	4407	4229	4030	3831	
	RPM							779	760	740	720	699	678	656	
	kW							2.00	1.82	1.64	1.50	1.36	1.24	1.12	
0.4	CFM							4720	4519	4317	4120	3922	3727	3532	
	RPM							783	762	742	722	701	680	659	
	kW							1.90	1.71	1.53	1.39	1.26	1.14	1.02	
0.5	CFM						4661	4458	4265	4072	3858	3643	3436	3229	
	RPM						805	786	765	744	724	703	682	661	
	kW						1.94	1.76	1.59	1.42	1.29	1.15	1.04	0.92	
0.6	CFM					4637	4445	4252	4037	3821	3569	3316			
	RPM					827	808	789	767	746	726	706			
	kW					1.99	1.82	1.64	1.48	1.32	1.18	1.05			
0.7	CFM					4394	4191	3988	3745	3502	3238				
	RPM					830	811	792	770	747	728				
	kW					1.88	1.70	1.53	1.36	1.20	1.06				
0.8	CFM				4350	4173	3916	3658	3422	3186					
	RPM				851	833	814	794	773	751					
	kW				1.93	1.76	1.57	1.39	1.23	1.07					
0.9	CFM			4254	4058	3861	3601	3341							
	RPM			870	853	836	816	796							
	kW			1.97	1.80	1.62	1.44	1.26							
1.0	CFM		4191	3982	3762	3542	3270								
	RPM		891	874	856	839	816								
	kW		1.99	1.81	1.64	1.47	1.30								
1.1	CFM		3892	3685	3452	3218									
	RPM		894	877	860	843									
	kW		1.83	1.65	1.49	1.32									
1.2	CFM	3861	3572	3362											
	RPM	913	897	883											
	kW	1.88	1.68	1.51											
1.3	CFM	3500	3244												
	RPM	915	902												
	kW	1.70	1.52												
1.4	CFM	3191													
	RPM	917													
	kW	1.55													
1.5	CFM														
	RPM														
	kW														
1.6	CFM														
	RPM														
	kW														

Values includes losses for: Unit Casing, 2" Disposable (Pleated) Filters & Dry Evaporator Coil

For operation at 208V: Deduct approximately 0.5% from Cfm

**Table 24. Blower Performance for R6GP-120*-235C Units
(10 Ton Horizontal Models Only)**

AIRFLOW DATA FOR R6GN SERIES

R6GN-150* Series

HSD kits:

918799 (208-230V, 3Ø, 60 Hz)

920637 (460V, 3Ø, 60 Hz)

High Static: Blower Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2.0 Turns Open	2.5 Turns Open	3.0 Turns Open	3.5 Turns Open	4.0 Turns Open ‡	4.5 Turns Open	5.0 Turns Open	5.5 Turns Open	6.0 Turns Open
0.9	CFM													
	RPM													
	kW													
1.0	CFM													
	RPM													
	kW													
1.1	CFM									5350	5100	4850		
	RPM									1188	1168	1148		
	kW									3.20	2.98	2.75		
1.2	CFM								5225	5000	4700	4400		
	RPM								1210	1189	1169	1148		
	kW								3.23	3.00	2.75	2.50		
1.3	CFM							5100	4850	4600	4250	3900		
	RPM							1231	1211	1190	1170	1149		
	kW							3.25	3.00	2.75	2.53	2.30		
1.4	CFM					5300	5050	4800	4500	4200				
	RPM					1271	1252	1232	1212	1191				
	kW					3.55	3.33	3.10	2.85	2.60				
1.5	CFM			5400	5150	4900	4650	4400	4050	3700				
	RPM			1313	1293	1273	1253	1233	1213	1192				
	kW			3.80	3.55	3.30	3.09	2.87	2.59	2.30				
1.6	CFM		5375	5000	4725	4450	4175	3900	3600					
	RPM		1334	1314	1295	1275	1255	1235	1214					
	kW		3.90	3.60	3.35	3.10	2.86	2.62	2.35					
1.7	CFM	5350	4925	4500	4250	4000								
	RPM	1355	1336	1316	1296	1276								
	kW	4.00	3.70	3.40	3.15	2.90								
1.8	CFM	4850	4475	4100	3725									
	RPM	1357	1338	1318	1297									
	kW	3.75	3.48	3.20	2.95									
1.9	CFM	4400	4000	3600										
	RPM	1359	1340	1320										
	kW	3.50	3.23	2.95										
2.0	CFM													
	RPM													
	kW													

Values include losses for: Unit Casing, 2" Disposable Filters, Dry Evaporator Coil & Installed Heat Exchanger

Values shown reflect operation at 230V or 460V. For operation at 208V, deduct 0.025 from unit static.

**Table 25. Blower Performance for R6GN-150* Units
(12.5 Ton Models Only)**

R6GN-180* Series
HSD KITS:

918800 (208-230/460V, 3Ø, 60 Hz)

High Static: Blower Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2.0 Turns Open	2.5 Turns Open	3.0 Turns Open	3.5 Turns Open	4.0 Turns Open ‡	4.5 Turns Open	5.0 Turns Open	5.5 Turns Open	6.0 Turns Open
0.9	CFM													
	RPM													
	kW													
1.0	CFM													
	RPM													
	kW													
1.1	CFM							5800	5575	5350	5100	4850		
	RPM							1228	1208	1188	1168	1148		
	kW							3.65	3.43	3.20	2.98	2.75		
1.2	CFM					6200	5850	5500	5250	5000	4700	4400		
	RPM					1270	1250	1230	1210	1189	1169	1148		
	kW					4.1	3.80	3.50	3.25	3.00	2.75	2.50		
1.3	CFM			6100	5850	5600	5350	5100	4850	4600				
	RPM			1309	1290	1271	1251	1231	1211	1190				
	kW			4.25	4.03	3.80	3.55	3.30	3.03	2.75				
1.4	CFM			5800	5550	5300	5050	4800	4500	4200				
	RPM			1310	1291	1272	1252	1232	1211.5	1191				
	kW			4.00	3.78	3.55	3.33	3.10	2.85	2.60				
1.5	CFM	6000	5700	5400	5150	4900	4650	4400						
	RPM	1353	1333	1312	1293	1273	1253	1233						
	kW	4.45	4.13	3.80	3.55	3.30	3.09	2.87						
1.6	CFM	5650	5325	5000	4725	4450								
	RPM	1354	1334	1314	1295	1275								
	kW	4.25	3.93	3.60	3.35	3.10								
1.7	CFM	5350	4925	4500										
	RPM	1355	1336	1316										
	kW	4.00	3.70	3.40										
1.8	CFM	4850	4475	4100										
	RPM	1357	1338	1318										
	kW	3.75	3.48	3.20										
1.9	CFM	4400												
	RPM	1359												
	kW	3.50												
2.0	CFM													
	RPM													
	kW													

Values include losses for: Unit Casing, 2" Disposable Filters, Dry Evaporator Coil & Installed Heat Exchanger

Values shown reflect operation at 230V or 460V. For operation at 208V, deduct 0.025 from unit static.

**Table 26. Blower Performance for R6GN-180* Units
(15 Ton Models Only)**

AIRFLOW DATA FOR B5SM SERIES AIR HANDLERS

B5SM-090Ja

MSD/HSD KIT:

921428 (208-230/460V, 3Ø, 60 Hz)

Medium Static: 1.5Hp w/ AK66 Blower Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting - With AK66 Pulley												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open ‡	5.5 Turns Open	6 Turns Open
0.1	CFM									3802	3619	3435		
	RPM									624	599	573		
	kW									0.94	0.84	0.73		
0.2	CFM								3743	3563	3362	3160		
	RPM								649	626	601	575		
	kW								0.98	0.88	0.78	0.68		
0.3	CFM						3862	3672	3480	3287	3064	2841		
	RPM						698	673	651	628	603	577		
	kW						1.13	1.00	0.90	0.80	0.70	0.60		
0.4	CFM					3815	3614	3413	3204	2995	2745	2494		
	RPM					725	700	675	653	631	605	579		
	kW					1.17	1.04	0.92	0.83	0.73	0.63	0.53		
0.5	CFM				3766	3566	3343	3120	2872	2623				
	RPM				753	727	702	677	655	633				
	kW				1.22	1.09	0.97	0.84	0.74	0.64				
0.6	CFM			3743	3519	3295	3040	2785	2270					
	RPM			781	756	730	705	679	659					
	kW			1.27	1.14	1.01	0.88	0.75	0.63					
0.7	CFM		3680	3474	3239	3004	2461							
	RPM		804	783	758	733	708							
	kW		1.32	1.17	1.03	0.90	0.74							
0.8	CFM	3639	3431	3176	2622									
	RPM	828	807	785	761									
	kW	1.40	1.21	1.07	0.89									
0.9	CFM	3384	3108	2284										
	RPM	831	809	788										
	kW	1.29	1.10	0.84										
1.0	CFM													
	RPM													
	kW													
1.1	CFM													
	RPM													
	kW													
1.2	CFM													
	RPM													
	kW													

Values includes losses for: Unit Casing, 1" Permanent Filters & Dry Evaporator Coil

When utilized with H7HK Heater kits, not all operational points shown may be available for use. Refer to the H7HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

**Table 27. Blower Performance for B5SM-090Ja Units
(1.5 Hp With AK66 Models Only)**

B5SM-090Ja**MSD/HSD KIT:**

High Static: 1.5Hp w/ AK61 Blower Performance Chart

921428 (208-230/460V, 3Ø, 60 Hz)

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting - With AK61 Pulley													
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open	
0.1	CFM										3847	3678			
	RPM										630	605			
	kW										0.96	0.87			
0.2	CFM									3805	3624	3443			
	RPM									660	634	607			
	kW									0.99	0.89	0.79			
0.3	CFM								3797	3582	3373	3164			
	RPM								693	663	637	610			
	kW								1.07	0.92	0.82	0.73			
0.4	CFM							3790	3558	3326	3091	2856			
	RPM							725	696	666	640	613			
	kW							1.16	1.00	0.85	0.75	0.66			
0.5	CFM						3766	3543	3290	3036	2499				
	RPM						752	728	699	669	642				
	kW						1.21	1.06	0.91	0.77	0.64				
0.6	CFM					3753	3498	3242	2934	2626					
	RPM					778	755	731	702	673					
	kW					1.25	1.11	0.98	0.84	0.69					
0.7	CFM				3730	3493	3191	2888	2366						
	RPM				805	780	757	733	705						
	kW				1.37	1.18	1.02	0.87	0.71						
0.8	CFM			3736	3463	3190	2623								
	RPM			834	809	784	761								
	kW			1.45	1.26	1.08	0.88								
0.9	CFM		3791	3461	2883	2305									
	RPM		867	837	812	786									
	kW		1.55	1.34	1.09	0.83									
1.0	CFM	3787	3520	3108	2573										
	RPM	888	870	840	815										
	kW	1.65	1.43	1.18	0.98										
1.1	CFM	3483	2649	2298											
	RPM	891	875	843											
	kW	1.52	1.13	0.94											
1.2	CFM	2625													
	RPM	898													
	kW	1.28													

Values includes losses for: Unit Casing, 1" Permanent Filters & Dry Evaporator Coil

When utilized with H7HK Heater kits, not all operational points shown may be available for use. Refer to the H7HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

**Table 28. Blower Performance for B5SM-090Ja Units
(1.5 Hp with AK61 Models Only)**

B5SM-120Ja**MSD KIT:**

921429 (208-230/460V, 3Ø, 60 Hz)

High Static: 2Hp Blower Performance Chart

‡ Indicates Factory Sheave Setting for Pre-configured Units

External Unit Static (in-Wg)	Operating @ 230 or 460 Volts	Adjustable Motor Sheave Setting												
		Fully Closed	1/2 Turn Open	1 Turn Open	1.5 Turns Open	2 Turns Open	2.5 Turns Open	3 Turns Open	3.5 Turns Open ‡	4 Turns Open	4.5 Turns Open	5 Turns Open	5.5 Turns Open	6 Turns Open
0.1	CFM							4645	4505	4364	4202	4039		
	RPM							830	804	778	753	727		
	kW							1.84	1.69	1.53	1.41	1.29		
0.2	CFM						4622	4467	4327	4187	4021	3854		
	RPM						853	831	805	779	754	728		
	kW						1.96	1.75	1.62	1.49	1.36	1.23		
0.3	CFM						4472	4307	4150	3992	3821	3649		
	RPM						855	833	807	780	755	729		
	kW						1.90	1.69	1.56	1.42	1.29	1.16		
0.4	CFM					4454	4284	4113	3962	3810	3607	3403		
	RPM					878	856	834	808	782	757	731		
	kW					2.01	1.81	1.60	1.47	1.35	1.22	1.10		
0.5	CFM					4305	4128	3951	3779	3606	3381	3156		
	RPM					880	858	835	810	784	759	733		
	kW					1.93	1.73	1.54	1.40	1.26	1.12	0.99		
0.6	CFM					4075	3894	3713	3523	3333	3120			
	RPM					881	859	837	811	785	762			
	kW					1.84	1.64	1.45	1.31	1.17	1.05			
0.7	CFM				4170	3879	3679	3478	3295	3112				
	RPM				912	883	861	838	813	787				
	kW				2.02	1.75	1.56	1.36	1.23	1.09				
0.8	CFM				3998	3721	3507	3293	3046					
	RPM				913	885	862	839	817					
	kW				1.91	1.65	1.47	1.29	1.15					
0.9	CFM			4061	3781	3501	3269	3036						
	RPM			942	915	887	864	841						
	kW			2.01	1.79	1.56	1.38	1.19						
1.0	CFM			3825	3531	3237								
	RPM			944	917	889								
	kW			1.90	1.69	1.49								
1.1	CFM		3921	3633	3241									
	RPM		970	948	922									
	kW		2.04	1.80	1.51									
1.2	CFM		3605	3387										
	RPM		971	949										
	kW		1.91	1.72										
1.3	CFM	3655	3349											
	RPM	996	972											
	kW	1.98	1.76											

Values includes losses for: Unit Casing, 1" Permanent Filters & Dry Evaporator Coil

When utilized with H7HK Heater kits, not all operational points shown may be available for use. Refer to the H7HK Installation Instructions to determine the minimum airflow requirements of the applicable heater assembly.

**Table 29. Blower Performance for B5SM-120Ja Units
(2 Hp Models Only)**

UNIT MODEL	GAS TYPE	HEATING INPUT	HEATING OUTPUT	HEATING RISE RANGE	CFM RANGE						
					SCFM	1950	2100	2250	2400	2550	2700
R6GP-072*-100C	Natural Gas	100,000	80,000	15 - 45	Rise (° F)†	38	35	33	31	29	27
	Propane (LP)	85,000	68,000			32	30	28	26	25	23
					SCFM	1950	2100	2250	2400	2550	2700
R6GP-072*-166C	Natural Gas	166,000	133,000	35 - 65	Rise (° F)†	63	59	55	51	48	46
	Propane (LP)	141,000	112,800			54	50	46	44	41	39
					SCFM	2425	2625	2800	3000	3188	3375
R6GP-090*-200Ca	Natural Gas	200,000	160,000	30 - 60	Rise (° F)†	61	56	53	49	46	44
	Propane (LP)	175,000	140,000			53	49	46	43	41	38
					SCFM	3250	3500	3750	4000	4250	4500
R6GP-120*-235Ca	Natural Gas	235,000	188,000	25 - 55	Rise (° F)†	54	50	46	44	41	39
	Propane (LP)	205,000	164,000			47	43	40	38	36	34
					SCFM	4063	4375	4688	5000	5313	5625
R6GN-150*-180C	Natural Gas	180,000	144,000	20 - 50	Rise (° F)†	33	30	28	27	25	24
	Propane (LP)	153,000	122,000			28	26	24	23	21	20
					SCFM	4063	4375	4688	5000	5313	5625
R6GN-150*-270C	Natural Gas	270,000	216,000	30 - 60	Rise (° F)†	49	46	43	40	38	36
	Propane (LP)	230,000	184,000			42	39	36	34	32	30
					SCFM	4875	5250	5625	6000	6375	6750
R6GN-180*-270C	Natural Gas	270,000	216,000	30 - 60	Rise (° F)†	41	38	36	33	31	30
	Propane (LP)	230,000	184,000			35	32	30	28	27	25
					SCFM	4875	5250	5625	6000	6375	6750
R6GN-180*-315C	Natural Gas	315,000	252,000	30 - 60	Rise (° F)†	48	44	41	39	37	35
	Propane (LP)	268,000	214,000			41	38	35	33	31	29

† At Elevations of 2,000 Ft or less

Table 30. Gas Heat Exchanger Temperature Rise Data

H5HK MODEL	VOLTAGE	KW	BTUH	CFM RANGE						
				SCFM	2100	2500	2900	3300	3700	4500
009Q	208	6.8	23,202	Rise (° F)	10	9	7	7	6	5
	240	9.0	30,708		14	11	10	9	8	6
009S	480	9.9	33,779		15	13	11	9	8	7
018Q	208	13.1	44,697	Rise (° F)	20	17	14	13	11	9
	240	17.4	59,369		26	22	19	17	15	12
018S	480	18.0	61,416		27	23	20	17	15	13
030Q	208	21.6	73,699	Rise (° F)	32	27	24	21	18	15
	240	28.8	98,266		43	36	31	28	25	20
030S	480	28.8	98,266		43	36	31	28	25	20
035Q	208	26.2	89,394	Rise (° F)	39	33	29	25	22	18
	240	34.8	118,738		52	44	38	33	30	24
035S	480	34.8	118,738		52	44	38	33	30	24

Table 31. Electric Heater Kit Temperature Rise Data

NOTE: The generic tables provided above are for reference only. Always refer to the installation instructions provided with the unit or heater kit for the most recent data tables.

INSTALLATION / PERFORMANCE CHECK LIST

INSTALLATION ADDRESS:	
CITY _____	STATE _____
UNIT MODEL # _____	
UNIT SERIAL # _____	
HSDK PART # _____	

INSTALLER NAME:	
CITY _____	STATE _____
Phone Number: () _____	

BLOWER SYSTEM:	
Blower Motor HP: _____	
Sheave Setting: _____ turns open	
System Static: _____ E.S.P. (in -Wg)	

ELECTRIC HEAT / GAS HEAT EXCHANGER:		
Heater Kit Installed?	YES	NO
Heater Kit Model #: _____		
Furnace Input: _____ (Btuh)		
Return Air Temp: _____ °F		
Supply Air Temp: _____ °F		
Temperature Rise: _____ °F		

INSTALLER:
**PLEASE LEAVE THESE INSTALLATION
INSTRUCTIONS WITH THE OWNER**

We Encourage
Professionalism

Through Technician
Certification by NATE


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