#### LIGHT COMMERCIAL - 3 HP ECM MOTOR / CONTROLLER HIGH STATIC DRIVE KITS

### **INSTALLATION INSTRUCTIONS**

For R7TQ/P7TQ/Q7TQ -090 (7.5T) and -120 (10T) Series Single Package Rooftop Units



### **IMPORTANT**

### **ATTENTION INSTALLERS:**

The installer performing this work assumes all responsibility when installing this kit. This includes being able to install the product according to strict safety guidelines and instructing the customer on how to operate and maintain the equipment for the life of the product. Safety should always be the deciding factor when installing this product and using common sense plays an important role as well. Pay attention to all safety warnings and any other special notes highlighted in the manual. Improper installation of the kit or failure to follow safety warnings could result in serious injury, death, or property damage.

These instructions are primarily intended to assist qualified individuals experienced in the proper installation of this appliance. Some local codes require licensed installation/service personnel for this type of equipment. Please read all instructions carefully before starting the installation. Return these instructions to the customer's package for future reference.

DO NOT DESTROY. PLEASE READ CAREFULLY & KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

#### 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.

### **MARNING:**

# ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD

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

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

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

### **MARNING:**

The safety information listed below must be followed during the installation, service, and operation of this it. Unqualified individuals should not attempt to interpret these instructions or install this equipment. Failure to follow safety recommendations could result in possible damage to the equipment, serious personal injury or death.

- Follow all precautions in the literature, on tags and labels provided with the equipment. Read and thoroughly understand the instructions provided with the equipment prior to performing the installation and operational checkout of the equipment.
- Unless noted otherwise in these instructions, only factory authorized parts or accessory kits may be used with this product. Improper installation, service, adjustment, or maintenance may cause fire, electrical shock or other hazardous conditions which may result in personal injury or property damage.
- Use caution when handling this equipment or removing components. Personal injury can occur from sharp metal edges present in all sheet metal constructed equipment.

#### GENERAL INFORMATION

The 3 HP ECM motor and controller high static drive kit is approved for use in R7TQ & P7TQ Series packaged air conditioners and Q7TQ packaged heat pumps when applied and installed according to these instructions. Use the performance tables to identify the proper drive components and airflow settings for your specific application.

**NOTE:** If any of the original wiring supplied with the unit must be replaced, it must be replaced with material of the same gauge and temperature rating.

#### PRE-INSTALLATION INFORMATION

#### **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 than increasing the units airflow when weighed against the increased energy cost for the design 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.

#### **Pre-Installation Checklist**

- Inspect the kit and verify its contents to Table 10, (page 11). Verify the High Static Drive Kit (HSDK) matches the unit application and building voltage requirements.
- 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 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.

#### **Electrical Information**

All wiring must comply with the current revision of the National Electric Code and must be sized for the minimum ampacities And over-current protective devices.

If the unit was previously installed without a high static drive motor and controller, the existing supply wiring may not be sufficient to handle the increased load. See Table 1, (page 5), Table 2, (page 6), & Table 3, (page 7) for minimum circuit ampacities and maximum overcurrent protection ratings.

Before proceeding with the electrical connections, make sure the voltage, frequency, and phase of the supply source are the same as those specified on the motor and controller kit.

Wiring Diagrams are shipped with each unit and located on the control panel access doors.

#### **MOTOR & CONTROLLER INSTALLATION**

- 1. TURN OFF ALL POWER TO THE UNIT.
- Open the blower access door and remove belt from drive pulleys by loosening & removing the four motor mounting nuts on the adjustable motor mounting plate. Set aside for later use. Loosen the mounting plate belt adjustment screw and remove belt.
- Disconnect the 12 pin motor wiring harness plug from the unit 12 pin plug and remove original motor.
- Install motor controller on rail behind motor location using two bolts provided in kit with cooling fins facing blower assembly. See Figure 1 (page 4).

- Install motor on adjustable motor mounting plate and replace four nuts removed in Step 2 for securing. Do not tighten all the way at this time.
- Check blower tables for proper blower pulley requirement matching the specific application (downflow or horizontal) and change as required.
- Install new BK45 fixed motor pulley on motor shaft using key provided with motor. Align pulleys & belt accordingly using standard practices. Tighten securely once complete.
- Adjust belt tension appropriately for proper operation. DO NOT OVER-TIGHTEN!
- Tighten four motor mounting nuts on adjustable motor mounting plate.
- 10. Connect 4 and 6 pin plugs from motor to mating connectors on controller. See Figure 3 (page 5).
- 11. Connect the 6 wire motor control interface cable with 12 pin plug to the unit 12 pin plug that was disconnected from the original motor.

## **High Voltage Connections To Motor Control 10 Pin Plug** See Figure 4 (page 5)

- a.) Connect line voltage Black wire to Terminal "G" on the motor 10 pin plug.
- b.) Connect line voltage Yellow wire to Terminal "L" on the motor 10 pin plug.
- c.) Connect line voltage Red wire to Terminal "N" on the motor 10 pin plug.
- c.) Connect GREEN ground wire using the screw that secures motor mounting rail to the blower deck. See Figure 1 (page 4).

## **Low Voltage Connections To Motor Control 10 Pin Plug** See Figure 4 (page 5)

- a.) Connect 24V COM Brown wire to Terminal C on the motor 10 pin plug.
- b.) Connect 24V Low speed Violet wire to Terminal 1 on the motor 10 pin plug.
- c.) Connect 24V High speed Orange wire to Terminal 3 on the motor 10 pin plug.

### **A CAUTION:**

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

### **IMPORTANT NOTE:**

The ECM motor is designed to have line voltage power to it 100% of the time while waiting for a 24V Low or High Speed signal to begin operation.

- 12. Locate the factory Low Speed- 3 Pole contactor in the unit main control panel. Remove the Blue, White, and Orange wires from T1, T2, and T3 and relocate to L1, L2, and L3 on the contactor respectively, so the motor has continuous power once power is restored to the unit. See Figure 2 (page 4).
- 13. Restore power to the unit.

#### **MOTOR OPERATION – BLOWER SPEED**

The blower speed for these accessory kits is set at the factory and should be verified for each installation. For optimum system performance and comfort, refer to blower performance data. See Table 4, (page 8), Table 5, (page 8), Table 6, (page 9), Table 7, (page 9), Table 8, (page 10), and Table 9, (page 10) for proper operating range. Always verify drive belt is secure and tensioned properly while inspecting sheaves and pulleys for proper tightness of the set screws.

#### Measuring the Blower Speed

For units equipped with either electric heat kit or gas heat 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. Set the thermostat for a call for heat and either calculate the airflow for the measured temperature rise or reference tables in the unit installation instructions 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

### **A** CAUTION:

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

The 3 HP ECM motor controller is pre-programmed from the factory for five speeds.

- Speed Taps 1 and 2 Low speed operation:
  - Fan On "G" or Stage 1 refrigerant circuit.
- Speed Taps 3, 4, and 5 High speed operation:
- Stage 2 refrigerant circuit.

Taps 1 (LOW) and 3 (HIGH) are suitable for most applications. If higher airflows are required refer to your specific airflow tables for additional speed tap selections. **NOTE:** The blower operates at the same speed for heating and cooling.

## If motor speed changes are required (See also Figure 2 and Figure 4):

Shut off all electrical power to the unit, open blower access panel and locate the motor controller 10 pin plug. For low speed adjustment relocate the low voltage Violet wire from terminal #1 to terminal #2. For high speed adjustment relocate the low voltage Orange wire from terminal #3 to terminal #4 or #5.

When a Fan On -"G" or Stage 1 Cooling call is received from the thermostat, the blower will run on low speed. If the thermostat calls for Stage 2 the motor will ramp to high speed.

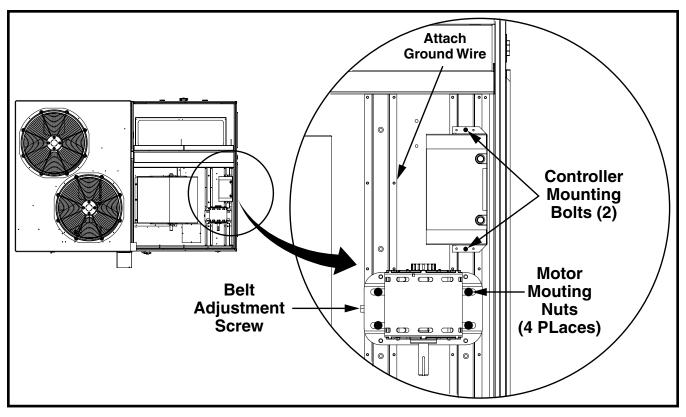


Figure 1. Motor Controller 10 Pin Plug

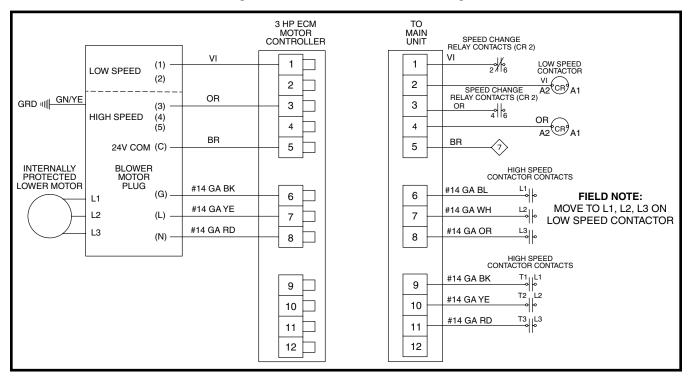
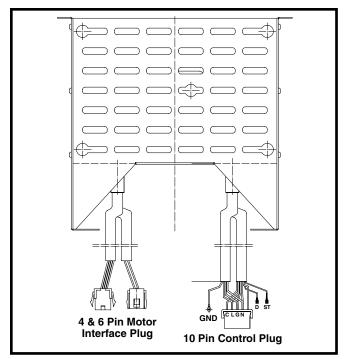


Figure 2. 3 HP ECM Motor Field Connection





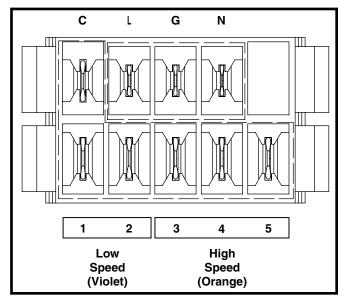


Figure 4. Motor Controller 10 Pin Plug

			SII	NGLE C	IRCUIT	1 HTIW	O ELE	CTRIC	HEAT				
Unit equi	pped with		ndard 2 H peed Mo			d 2 HP / : Power E			Static D M, 5 Spec		3 HP EČI	Static D M, 5 Spec wer Exha	ed Motor
Cooling Tonnage	Voltage	Total Line Current	MCA	МОР	Total Line Current	MCA	МОР	Total Line Current	МСА	МОР	Total Line Current	МСА	МОР
	208-230	26.4	30.8	45	30.4	34.8	50	29.3	33.7	50	33.3	37.7	55
6	460	12.8	14.9	20	14.8	16.9	25	14.3	16.4	20	16.3	18.4	25
	575	9.8	11.4	15	11.7	13.3	15	N/A	N/A	N/A	N/A	N/A	N/A
	208-230	36.8	40.1	50	40.8	44.1	50	39.7	43.0	50	43.7	47.0	60
7.5	460	17.7	19.2	25	19.7	21.2	25	19.2	20.7	25	21.2	22.7	25
	575	13.2	14.3	15	15.1	16.2	20	N/A	N/A	N/A	N/A	N/A	N/A
	208-230	42.6	46.6	60	46.6	50.6	60	45.5	49.5	60	49.5	53.5	60
10	460	21.1	23.1	30	23.1	25.1	30	22.6	24.6	30	24.6	26.6	30
	575	15.8	17.2	20	17.7	19.1	20	N/A	N/A	N/A	N/A	N/A	N/A

Unit equ	ipped with		ndard 3 I Speed Mo		1	d 3 HP / 2 Power E	•		Static D Speed M	,	5 HP,	n Static D 2 Speed ower Exha	Motor
Cooling Tonnage	Voltage	Total Line Current	МСА	МОР	Total Line Current	MCA	МОР	Total Line Current	МСА	МОР	Total Line Current	МСА	МОР
12.5	208-230	53.4	58.2	70	57.4	62.2	80	57.6	62.4	80	61.6	66.4	80
12.5	460	27.3	29.7	35	29.3	31.7	40	29.5	31.9	40	31.5	33.9	40

1) To achieve the rated unit performance, unit voltage should be within 2% of nominal.

2) For C series units:

Nominal Unit Input Voltage = 208-230 Volt, 60 Hertz, 3 Phase Minimum allowed unit voltage = 187V

Maximum allowed voltage = 253V

3) For D series units:

Nominal Unit Input Voltage = 460 Volt, 60 Hertz, 3 Phase
Minimum allowed unit voltage = 414V

Maximum allowed voltage = 506V

FLA = Full Load Amps; MCA = Minimum Circuit Ampacity; RLA = Rated Load Amps;

MOP = Maximum Over-Current Protection; LRA = Locked Rotor Amps

PE = Power Exhaust

PE = Power Exhaust

HSD = High Static Drive

Table 1. R7TQ Package Gas / Electric Series MCA / MOP Data For Single Circuit

		,	SINC	GLE CI	RCUIT I	ELEC	TRI	CAL DA	ATA						
			s	INGLE C	RCUIT WIT	H NO	ELECT	RIC HEAT							
UNIT EQUIPPE	ED WITH		NDARD 2 PEED MOT		STAND 2 SPEE + POWEI	D MOT	OR	HIGH S 3 HP ECM	STATIC [ -5 SPEEI		3 HP ECI	STATIC D M-5 SPEED WER EXH	MOTOR		
COOLING TONNAGE (2),(3)	UNIT VOLTAGE	TOTAL LINE CURRENT	MCA	МОР	TOTAL LINE CURRENT	МСА	МОР	TOTAL LINE CURRENT	МСА	МОР	TOTAL LINE CURRENT	МСА	МОР		
	208-230 26.4 30.8 45 30.4 34.8 50 29.3 33.7 50 33.3 37.7 50 6 460 12.8 14.9 20 14.8 16.9 25 14.3 16.4 20 16.3 18.4 25														
6															
	6 460 12.8 14.9 20 14.8 16.9 25 14.3 16.4 20 16.3 18.4 25 575 9.8 11.4 15 11.7 13.3 15 N/A N/A N/A N/A N/A N/A N/A N/A														
	208-230	36.8	40.1	50	40.8	44.1	50	39.7	43.0	50	43.7	47.0	60		
7.5	460	17.7	19.2	25	19.7	21.2	25	19.2	20.7	25	21.2	22.7	25		
	575	13.2	14.3	15	15.1	16.2	20	N/A	N/A	N/A	N/A	N/A	N/A		
	208-230	42.6	46.6	60	46.6	50.6	60	45.5	49.5	60	49.5	53.5	60		
10	460	21.1	23.1	30	23.1	25.1	30	22.6	24.6	30	24.6	26.6	30		
	575	15.8	17.2	20	17.7	19.1	20	N/A	N/A	N/A	N/A	N/A	N/A		
UNIT EQUIPPE	ED WITH		NDARD 3 PEED MOT		STAND 2 SPEE + POWEI	D MOT	OR		STATIC I		5 HP-2	STATIC D SPEED M WER EXH	OTOR		
COOLING TONNAGE (2),(3)	UNIT VOLTAGE	TOTAL LINE CURRENT	МСА	МОР	TOTAL LINE CURRENT	МСА	МОР	TOTAL LINE CURRENT	МСА	МОР	TOTAL LINE CURRENT	МСА	МОР		
12.5	208-230	53.4	58.2	70	57.4	62.2	80	57.6	62.4	80	61.6	66.4	80		
12.0	460	27.3	29.7	35	29.3	31.7	40	29.5	31.9	40	31.5	33.9	40		

		SINC	GLE CIRC	UIT WITH	ELECTRIC	CHEAT	Γ - STA	NDARD D	RIVE M	OTOR AN	ID/OR PO	WER EXI	HAUST				
UNIT EQUIPPE	D WITH		2	HP-2 SPE	ED MOTOR -	+ HEAT	ER KIT			2	HP-2 SPE	D MOTOR	+ HEATER	KIT + P	OWER E	XHAUST	
COOLING	UNIT		М	CA				МОР			М	CA			N	ЮР	
TONNAGE (2),(3)	VOLTAGE	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW
	208-240V	31.0-34.6	52.9-59.9	82.5-94.1	98.3-112.1	45-45	60-60	90-100	100-125	36.0-39.6	57.9-64.9	87.5-99.1	103.3-117.1	50-50	60-70	90-100	110-125
6	480V	18.5	30.8	46.9	56.0	20	35	50	60	21.0	33.3	49.4	58.5	25	35	50	60
	575V	15.5	28.1	40.6	53.3	20	30	45	60	17.9	30.5	43	55.6	20	35	45	60
	208-240V	40.1-40.1	52.9-59.9	82.5-94.1	98.3-112.1	50-50	60-60	90-100	100-125	44.1-44.1	57.9-64.9	87.5-99.1	103.3-117.1	50 - 50	60-70	90-100	110-125
7.5	480V	19.2	30.8	46.9	56.0	25	35	50	60	21.2	33.3	49.4	58.5	25	35	50	60
	575V	15.5	28.1	40.6	53.3	20	30	45	60	17.9	30.5	43	55.6	20	35	45	60
	208-240V	46.6-46.6	52.9-59.9	82.5-94.1	98.3-112.1	60-60	60-60	90-100	100-125	50.6-50.6	57.9-64.9	87.5-99.1	103.3-117.1	60 - 60	60-70	90-100	110-125
10	480V	23.1	30.8	46.9	56.0	30	35	50	60	25.1	33.3	49.4	58.5	30	35	50	60
	575V	17.2	28.1	40.6	53.3	20	30	45	60	19.1	30.5	43	55.6	20	35	45	60
UNIT EQUIPPE	D WITH		3	HP-2 SPE	ED MOTOR -	+ HEATI	ER KIT			3	HP-2 SPE	D MOTOR	+ HEATER	KIT + P	OWER E	XHAUST	•
COOLING	UNIT		М	CA	MOP			М	CA			N	ЮР				
TONNAGE (2),(3)	VOLTAGE	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW
12.5	208-240V	58.2-58.2	58.9-65.9	88.5-100.1	104.3-118.1	70-70	60-70	90-110	110-125	62.2-62.2	63.9-70.9	93.5-105.1	109.3-123.1	80-80	70-80	100-110	110-125
12.5	480V	29.7	33.8	49.9	59.0	35	35	50	60	31.7	36.3	52.4	61.9	40	40	60	70

		SING	LE CIRC	UIT WITH	ELECTRIC	HEAT	- HIGH	STATIC E	RIVE M	OTOR AN	ND/OR PC	WER EXI	HAUST				
UNIT EQUIPPE	D WITH			3 HP ECM	MOTOR + I	HEATER	KIT				3 HP ECM	MOTOR +	HEATER KI	T + POV	VER EX	HAUST	
COOLING	UNIT		М	CA				МОР			М	CA			ı	ИОР	
TONNAGE (2),(3)	VOLTAGE	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW
	208-240V	34.6-38.3	56.5-63.5	86.1-97.8	101.9-115.8	50-50	60-70	90-100	110-125	39.6-43.3	61.5-68.5	91.1-102.8	106.9-120.8	50-50	70-70	100-110	110-125
6	480V	20.4	32.6	48.8	57.9	25	35	50	60	22.9	35.1	51.3	60.4	25	40	60	70
	575V																
	208-240V	43.0-43.0	56.5-63.5	86.1-97.8	101.9-115.8	50-50	60-70	90-100	110-125	47.0-47.0	61.5-68.5	91.1-102.8	106.9-120.8	60-60	70-70	100-110	110-125
7.5	480V	20.7	32.6	48.8	57.9	25	35	50	60	22.9	35.1	51.3	60.4	25	40	60	70
	575V																
	208-240V	49.5-49.5	56.5-63.5	86.1-97.8	101.9-115.8	60-60	60-70	90-100	110-125	53.5-53.5	61.5-68.5	91.1-102.8	106.9-120.8	60-60	70-70	100-110	110-125
10	480V	24.6	32.6	48.8	57.9	30	35	50	60	26.6	35.1	51.3	60.4	30	40	60	70
	575V																
UNIT EQUIPPE	D WITH		5	HP-2 SPE	ED MOTOR -	+ HEATI	ER KIT			5	HP-2 SPE	ED MOTOR	+ HEATER	KIT + P	OWER E	XHAUST	
COOLING	UNIT		М	CA				МОР			М	CA			ı	ИОР	
TONNAGE (2),(3)	VOLTAGE	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW	9 KW	18 KW	30 KW	35 KW
12.5	208-240V	62.4-62.4	64.1-71.1	93.8-105.4	109.5-123.4	80-80	70-80	100-110	110-125	66.4-66.4	69.1-76.1	98.8-110.4	114.5-128.4	80-80	70-80	100-125	125-150
12.5	480V	31.9	36.5	52.6	61.8	40	40	60	70	33.9	39.0	55.1	64.3	40	40	60	70

- 1. To achieve the rated unit performance, unit voltage should be within 2% of nominal.
- 2. For C series units:

Nominal Unit Input Voltage = 208-230 Volt, 60 Hertz, 3 Phase Minimum allowed unit voltage = 187V Maximum allowed voltage = 253V

3. For D series units:

Nominal Unit Input Voltage = 460 Volt, 60 Hertz, 3 Phase

Minimum allowed unit voltage = 414V

Maximum allowed voltage = 506V FLA = Full Load Amps; MCA = Minimum Circuit Ampacity; RLA = Rated Load Amps;
MOP = Maximum Over-Current Protection; LRA = Locked Rotor Amps

Table 2. P7TQ Package AC Series MCA / MOP Data For Single Circuit

-						/UL	TIPL	E CI	RCU	IT E	LECT	RICAL	DATA				,	
	COOLING				CC	OLING	CIRCL	JIT						HEATIN	G CIRCUIT			
MOTOR TYPE	TONNAGE	UNIT VOLTAGE	91	<b>W</b>	18	KW	30	KW	35	<b>CW</b>	9 K	(W	18 K	W	30 K	W	35 K	w
	(2),(3)		MCS	МОР	MCS	MOP	MCS	MOP	MCS	MOP	MCS	MOP	MCS	MOP	MCS	MOP	MCS	MOP
		208-240V	30.8	45.0	30.8	45.0	30.8	45.0	30.8	45.0	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
	6	480V	14.9	20.0	14.9	20.0	14.9	20.0	14.9	20.0	14.9	15.0	27.1	30.0	43.3	45.0	52.3	60.0
		575V	11.4	15.0	11.4	15.0	11.4	15.0	11.4	15.0	12.5	15.0	26.0	30.0	37.7	40.0	50.2	60.0
STANDARD		208-240V	40.1	50	40.1	50	40.1	50	40.1	50	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
2 HP-2 SPEED	7.5	480V	19.2	25	19.2	25	19.2	25	19.2	25	14.9	15	27.1	30	43.3	45	52.3	60
MOTOR		575V	14.3	15	14.3	15	14.3	15	14.3	15	12.5	15	26	30	37.7	40	50.2	60
		208-240V	46.6	60	46.6	60	46.6	60	46.6	60	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
	10	480V	23.1	30	23.1	30	23.1	30	23.1	30	14.9	15	27.1	30	43.3	45	52.3	60
		575V	17.2	20	17.2	20	17.2	20	17.2	20	12.5	15	26	30	37.7	40	50.2	60
STANDARD 3 HP-2 SPEED	12.5	208-240V	58.2	70	58.2	70	58.2	70	58.2	70	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
MOTOR	12.5	480V	29.7	35	29.7	35	29.7	35	29.7	35	14.9	15	27.1	30	43.3	45	52.3	60
		208-240V	34.8	50	34.8	50	34.8	50	34.8	50	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
	6	480V	16.9	25	16.9	25	16.9	25	16.9	25	14.9	15.0	27.1	30.0	43.3	45.0	52.3	60.0
STANDARD		575V	13.3	15	13.3	15	13.3	15	13.3	15	12.5	15.0	26.0	30.0	37.7	40.0	50.2	60.0
2 HP-2 SPEED		208-240V	44.1	50	44.1	50	44.1	50	44.1	50	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
MOTOR WITH POWER	7.5	480V	21.2	25	21.2	25	21.2	25	21.2	25	14.9	15	27.1	30	43.3	45	52.3	60
EXHAUST		575V	16.2	20	16.2	20	16.2	20	16.2	20	12.5	15	26	30	37.7	40	50.2	60
(OPTIONAL)		208-240V	50.6	60	50.6	60	50.6	60	50.6	60	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
	10	480V	25.1	30	25.1	30	25.1	30	25.1	30	14.9	15	27.1	30	43.3	45	52.3	60
		575V	19.1	20	19.1	20	19.1	20	19.1	20	12.5	15	26	30	37.7	40	50.2	60
STANDARD 3 HP-2 SPEED MOTOR WITH	12.5	208-240V	62.2	80	62.2	80	62.2	80	62.2	80	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
POWER EXHAUST (OPTIONAL)	12.5	480V	31.7	40	31.7	40	31.7	40	31.7	40	14.9	15	27.1	30	43.3	45	52.3	60

	COOLING				CC	OLING	CIRCL	JIT						HEATIN	G CIRCUIT			
MOTOR TYPE	TONNAGE	UNIT VOLTAGE	9 H	<b>CW</b>	18	KW	30	KW	35 I	<b>CW</b>	9 K	CW	18 K	W	30 K	w	35 K	w
11112	(2),(3)	VOLIAGE	MCS	МОР	MCS	МОР	MCS	МОР	MCS	MOP	MCS	MOP	MCS	MOP	MCS	MOP	MCS	MOP
		208-240V	33.7	50	33.7	50	33.7	50	33.7	50	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
	6	480V	16.4	20	16.4	20	16.4	20	16.4	20	14.9	15.0	27.1	30.0	43.3	45.0	52.3	60.0
		575V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	15.0	26.0	30.0	37.7	40.0	50.2	60.0
HIGH STATIC DRIVE		208-240V	43.0	50	43.0	50	43.0	50	43.0	50	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
(OPTIONAL):	7.5	480V	20.7	25	20.7	25	20.7	25	20.7	25	14.9	15	27.1	30	43.3	45	52.3	60
3HP ECM MOTOR		575V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	15	26	30	37.7	40	50.2	60
		208-240V	49.5	60	49.5	60	49.5	60	49.5	60	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
	10	480V	24.6	30	24.6	30	24.6	30	24.6	30	14.9	15	27.1	30	43.3	45	52.3	60
		575V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	15	26	30	37.7	40	50.2	60
HIGH STATIC DRIVE (OPTIONAL):	12.5	208-240V	62.4	80	62.4	80	62.4	80	62.4	80	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
5 HP-2 SPEED MOTOR	12.0	480V	31.9	40	31.9	40	31.9	40	31.9	40	14.9	15	27.1	30	43.3	45	52.3	60
		208-240V	37.7	50	37.7	50	37.7	50	37.7	50	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
LUCU CTATIO	6	480V	18.4	25	18.4	25	18.4	25	18.4	25	14.9	15.0	27.1	30.0	43.3	45.0	52.3	60.0
HIGH STATIC DRIVE		575V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	15.0	26.0	30.0	37.7	40.0	50.2	60.0
(OPTIONAL):		208-240V	47.0	60	47.0	60	47.0	60	47.0	60	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
3HP ECM MOTOR	7.5	480V	22.7	25	22.7	25	22.7	25	22.7	25	14.9	15	27.1	30	43.3	45	52.3	60
WITH POWER EXHAUST		575V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	15	26	30	37.7	40	50.2	60
(OPTIONAL)		208-240V	53.5	60	53.5	60	53.5	60	53.5	60	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
(6. 1.6.1.7.2)	10	480V	26.6	30	26.6	30	26.6	30	26.6	30	14.9	15	27.1	30	43.3	45	52.3	60
		575V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	15	26	30	37.7	40	50.2	60
HIGH STATIC DRIVE (OPTIONAL): 5HP-2 SPEED	12.5	208-240V	66.4	80	66.4	80	66.4	80	66.4	80	23.5-27.1	30-30	45.4-52.3	50-60	75.0-86.6	80-90	90.7-104.6	100-110
MOTOR WITH POWER EXHAUST (OPTIONAL)	12.5	480V	33.9	40	33.9	40	33.9	40	33.9	40	14.9	15	27.1	30	43.3	45	52.3	60

Nominal Unit Input Voltage = 208-230 Volt, 60 Hertz, 3 Phase Minimum allowed unit voltage = 187V Maximum allowed voltage = 253V 3. For D series units:

Nominal Unit Input Voltage = 460 Volt, 60 Hertz, 3 Phase
 Minimum allowed unit voltage = 414V
 Maximum allowed voltage = 506V

 FLA = Full Load Amps; MCA = Minimum Circuit Ampacity; RLA = Rated

FLA = Full Load Amps; MCA = Minimum Circuit Ampacity; RLA = Rated Load Amps;

MOP = Maximum Over-Current Protection; LRA = Locked Rotor Amps

<sup>1.</sup> To achieve the rated unit performance, unit voltage should be within 2% of nominal.

<sup>2.</sup> For C series units:

			7.5	5 TO	N HIC	SH S	TATI	C DF	RIVE	- DO	WNF	LOW	- 3 H	IP E	CM N	ОТС	R				
ESP		0.2			0.3			0.4			0.5			0.6			0.7			8.0	
SPEED TAP	СҒМ	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	СЕМ	RPM	KW	CFM	RPM	KW
1-Low	2165	559	0.5	2090	588	0.52	2000	623	0.56	1900	653	0.58									
2-Low	2380	593	0.58	2310	618	0.61	2240	643	0.64	2130	680	0.67	2025	716	0.70						
3-High										3300	831	1.39	3230	847	1.41	3200	865	1.44	3160	882	1.47
4-High										3480	857	1.55	3430	875	1.58	3330	897	1.64	3230	918	1.70
5-High													3620	901	1.76	3560	918	1.79	3510	935	1.83
ESP		0.9			1.0			1.1			1.2			1.3			1.4				
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	]		
1-Low																					
2-Low																					
3-High	3100	901	1.50	3040	919	1.53	2930	953	1.57	2830	987	1.61	2780	1001	1.66						
4-High	3200	934	1.72	3170	950	1.74	3140	966	1.76	3100	982	1.78	2980	1016	1.82				]		
5-High	3450	951	1.86	3400	967	1.88	3350	986	1.93	3290	1005	1.97	3240	1023	2.01	3180	1042	2.06			

- 1. Factory recommended settings are in bold.
- Shaded areas are not recommended or approved for proper operation of equipment.
   7.5 Ton High Static Drive Consists of: 3 HP / 5 Speed ECM Motor and Controller, BK45 Motor Pulley, BK70 Blower Pulley, and B56 Belt. See accessory offering in Technical Sales Literature.

Table 4. P7TQ-090C/D/N\* Package AC Series High Static Drive

			10	10T	N HIG	iH S	ΓΑΤΙ	C DR	IVE -	. DO\	WNF	LOW	- 3 H	IP EC	M M	ото	R				
ESP		0.2			0.3			0.4			0.5			0.6			0.7			8.0	
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	2310	581	0.55	2240	608	0.58	2170	634	0.60	2050	674	0.63									
2-Low	2540	616	0.65	2450	639	0.68	2380	662	0.70	2290	692	0.73	2195	721	8.0						
3-High										3480	857	1.55	3430	875	1.58	3330	897	1.64	3230	918	1.70
4-High										3670	886	1.73	3620	901	1.76	3560	918	1.79	3510	935	1.83
5-High													3845	938	2.01	3790	954	2.06	3740	969	2.10
ESP		0.9			1.0			1.1			1.2			1.3			1.4				
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW			
1-Low																					
2-Low																					
3-High	3200	934	1.72	3170	950	1.74	3140	966	1.76												
4-High	3450	951	1.86	3400	967	1.88	3350	986	1.93	3290	1005	1.97	3240	1023	2.01	3180	1042	2.06			
5-High	3690	985	2.13	3635	1000	2.15	3575	1016	2.188	3525	1031	2.222	3490	1048	2.25	3450	1063	2.27			

#### NOTES:

- 1. Factory recommended settings are in bold.
- 2. Shaded areas are not recommended or approved for proper operation of equipment.
- 3. 10 Ton High Static Drive Consists of: 3 HP / 5 Speed ECM Motor and Controller, BK45 Motor Pulley, BK70 Blower Pulley, and B56 Belt. See accessory offering in Technical Sales Literature.

Table 5. P7TQ-120C/D/N\* Package AC Series High Static Drive

				7.5	TON HI	GH ST	ATIC [	ORIVE -	- DOW	NFLOV	V				
ESP		0.1			0.2			0.3			0.4			0.5	
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	2100	554	0.55	2000	589	0.57	1890	620	0.60	1745	648	0.74			
2-Low	2395	610	0.74	2306	637	0.77	2204	662	0.81	2032	690	0.86	1950	721	0.91
3-High	3445	821	1.71	3380	838	1.72	3325	854	1.75	3235	874	1.78	3175	895	1.81
4-High				3595	877	1.98	3530	894	2.01	3450	913	2.05	3385	931	2.07
5-High													3670	975	2.41
ESP		0.6			0.7			0.8			0.9			1.0	
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low															
2-Low															
3-High	3095	913	1.87	3040	933	1.92	2940	957	1.93	2845	975	1.97	2755	988	1.97
4-High	3335	946	2.14	3275	965	2.17	3165	984	2.17	3030	998	2.17	2925	1007	2.14
5-High	3620	985	2.44	3550	1000	2.44	3370	1005	2.37	3150	1008	2.29	3010	1011	2.20

- 1. Factory recommended settings are in bold.
- Shaded areas are not recommended or approved for proper operation of equipment.
   7.5 Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK77 Blower Pulley, and B56 Belt. See accessory offering in Technical Sales Literature.

Table 6. R7TQ-090C/D/N\* Package Gas / Electric Series High Static Drive (Downflow)

				7.5 T	ON HI	GH ST	ATIC D	RIVE -	HORE	ZONTA	L				
ESP		0.1			0.2			0.3			0.4			0.5	
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	2125	441	0.39	2010	481	0.42	1845	527	0.45	1665	576	0.48	1545	604	0.51
2-Low	2455	489	0.50	2360	522	0.53	2265	554	0.56	2100	608	0.60	1950	643	0.64
3-High	3518	640	1.02	3435	661	1.04	3350	684	1.08	3281	707	1.11	3213	730	1.14
4-High	3690	665	1.13	3600	688	1.17	3530	709	1.20	3465	733	1.23	3400	757	1.26
5-High	1845	333	0.57	3840	710	1.32	3750	730	1.38	3690	759	1.40	3630	774	1.42
ESP		0.6			0.7			0.8			0.9			1.0	
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low															
2-Low															
3-High	3135	753	1.18	3058	776	1.22	2943	812	1.28	2829	849	1.33	2718	877	1.36
4-High	3330	776	1.31	3260	794	1.36	3185	819	1.40	3110	844	1.44	2975	882	1.48
5-High	3560	799	1.46	3510	818	1.498	3440	944	1.53	3360	865	1.58	3260	889	1.61

- 1. Factory recommended settings are in bold.
- Shaded areas are not recommended or approved for proper operation of equipment.
   7.5 Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK77 Blower Pulley, and B56 Belt. See accessory offering in Technical Sales Literature.

Table 7. R7TQ-90C/D/N\* Package Gas / Electric Series High Static Drive (Horizontal)

				10 T	ON HI	GH ST	ATIC E	RIVE -	DOW	NFLOV	V				
ESP		0.1			0.2			0.3			0.4			0.5	
SPEEDTAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	2200	549	0.60	2115	574	0.62	1995	634	0.64						
2-Low	2460	601	0.74	2390	622	0.75	2285	648	0.76	2195	684	0.83	2050	713	0.85
3-High	3680	855	1.83	3635	874	1.88	3560	892	1.92	3480	906	1.97	3430	868	1.94
4-High	3905	900	2.14	3840	917	2.20	3760	932	2.21	3710	945	2.23	3650	933	2.23
5-High	4130	945	2.45	4042	961	2.51	3960	973	2.50	3937	984	2.50	3870	997	2.52
ESP		0.6			0.7			0.8			0.9			1.0	
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low															
2-Low															
3-High	3390	937	1.99	3335	953	2.01	3275	971	2.06	3230	986	2.11	3170	1009	2.13
4-High	3595	973	2.26	3535	986	2.28	3465	1000	2.31	3400	1014	2.33	3335	1031	2.34
5-High	3800	1009	2.53	3735	1018	2.55	3650	1029	2.56	3570	1043	2.56	3505	1053	2.55

- 1. Factory recommended settings are in bold.
- Shaded areas are not recommended or approved for proper operation of equipment.
   To Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK70 Blower Pulley, and B56 Belt. See accessory offering in Technical Sales Literature.

Table 8. R7TQ-120C/D/N\* Package Gas / Electric Series High Static Drive (Downflow)

10 TON HIGH STATIC DRIVE - HORIZONTAL															
ESP	P 0.1			0.2			0.3			0.4			0.5		
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	2300	466	0.40	2180	505	0.43	2100	532	0.46	1930	583	0.49	1760	634	0.53
2-Low							2406	569	0.56	2317	601	0.58	2228	633	0.61
3-High	3775	676	1.14	3710	697	1.17	3645	718	1.21	3580	739	1.25	3515	762	1.28
4-High							3850	745	1.37	3790	764	1.40	3730	786	1.43
5-High													3850	802	1.53
ESP	0.6			0.7		0.8			0.9			1.0			
SPEED TAP	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW	CFM	RPM	KW
1-Low	1655	657	0.55												
2-Low	2051	675	0.65	1874	716	0.69	1768	738	0.70	1662	760	0.72			
3-High	3450	784	1.30	3385	806	1.34	3320	828	1.37	3245	850	1.40	3170	872	1.44
4-High	3670	807	1.46	3600	829	1.50	3530	851	1.53	3460	874	1.57	3390	896	1.60
5-High	3790	821	1.57	3732	842	1.60	3668	862	1.63	3610	879	1.66	3540	904	1.70

#### NOTES:

- Factory recommended settings are in bold.
   Shaded areas are not recommended or approved for proper operation of equipment.
- 3. 10 Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK70 Blower Pulley, and B56 Belt. See accessory offering in Technical Sales Literature.

Table 9. R7TQ-120C/D/N\* Package Gas / Electric Series High Static Drive (Horizontal)

R7TQ SERIES PARTS LIST											
				7.5 TON				10 TON			
	KIT APPLICATION	DOWNFLOW APPLICATIONS		HORIZONTAL APPLICATIONS		DOWNFLOW APPLICATIONS		HORIZONTAL APPLICATIONS			
			208-230V	460V	208-230V	460V	208-230V	460V	208-230V	460V	
		KIT SKU #	1011379	1011380	1012814	1012815	1012816	1012817	1012818	1012819	
Motor, 3 HP EC	M, 208-230/3/60, 5 Speed		1010930	_	1010930	_	1010930		1010930	_	
Motor, 3 HP EC	M, 460/3/60, 5 Speed		_	1010936	_	1010936	_	1010936	_	1010936	
Wire asm.12 pir	n, LC Cab B, motor 3HP		1011080	1011080	1011080	1011080	1011080	1011080	1011080	1011080	
	rive, BK45 X 7/8"		1011448	1011448	1011448	1011448	1011448	1011448	1011448	1011448	
BLTTF, SIHWH (Controller Mntg	, SE, 5/16-18X0.75()EZ J.)		600471	600471	600471	600471	600471	600471	600471	600471	
Installation Instr	uctions		1012821	1012821	1012821	1012821	1012821	1012821	1012821	1012821	
	X, R7TQ090C, 3HP HSD-Downflow		101282001	_	_	_				_	
	X, R7TQ090D, 3HP HSD-Downflow			101282002	_	_		_		_	
Cntrl/Prog, DM2		_	_	101282003	_		_		_		
Cntrl/Prog, DM2		_	_	_	101282004		_	_	_		
Cntrl/Prog, DM2X, R7TQ120C, 3HP HSD-Downflow					_	_	101282005	_	_	_	
	ntrl/Prog, DM2X, R7TQ120D, 3HP HSD-Downflow			_	_			101282006	_	_	
	2X, R7TQ120C, 3HP HSD-Horizontal			_	_	_	_	_	101282007	_	
	2X, R7TQ120D, 3HP HSD-Horizontal			_	_					101282008	
	r, 3 HP, 208-230/3/60		1010931		1010931		1010931		1010931		
Motor Controller	r, 3 HP, 460/3/60			1010937	_	1010937		1010937	_	1010937	
Motor	Speed Tap # 1 - Low		400 500		300 400		400 500		300 390		
Program	Speed Tap # 2 - Low			1025		725		1200		900	
Torque Values	Speed Tap # 3 - High Speed Tap # 4 - High			1150		800		1350		1000	
values	Speed Tap # 5 - High		1350		1000		1500		1060		
		CO SEDIES	PARTS LIST			.000					
		G SEITIES	7.5 TON				10 TON				
	KIT	DOWNF					DOWN				
	COMPONENT DESCRIPTION	APPLICATION			ATIONS				ATIONS		
			208-230V		460V		208-230V		460V		
		KIT SKU #	1021012		1021013		1021014		1021015		
Motor, 3 HP EC	M, 208-230/3/60, 5 Speed		1010930		_		1010930		_		
Motor, 3 HP EC	M, 460/3/60, 5 Speed		_		1010936		_		1010936		
Wire asm.12 pin, LC Cab B, motor 3HP		i	1011080		1011080		1011080		1011080		
Pulley, Motor Drive, BK45 X 7/8"			1011	1080	1011	1080	101	1080	1011	1080	
Pulley, Motor Dr	· <u> </u>		1011		1011			1448	1011		
	rive, BK45 X 7/8" I,SE, 5/16-18X0.75()EZ			1448		1448		1448		1448	
BLTTF, SIHWH	rive, BK45 X 7/8" I,SE, 5/16-18X0.75()EZ I.)		1011	1448 471	1011	1448 471	101	1448 471	1011	1448 471	
BLTTF, SIHWH (Controller Mntg Installation Instr	rive, BK45 X 7/8" I,SE, 5/16-18X0.75()EZ I.)		600	1448 471 2821	1011 600	1448 471	101 600 1012	1448 471	1011 600	1448 471	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2	rive, BK45 X 7/8" I,SE, 5/16-18X0.75()EZ I.) uctions		101 <sup>-</sup> 600 1012	1448 471 2821	1011 600	1448 471	101 600 1012	1448 471 2821	1011 600	1448 471	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2	rive, BK45 X 7/8"  I,SE, 5/16-18X0.75()EZ  I,)  uctions  EX, P7TQ090C, 3HP HSD-Downflow		101 <sup>-</sup> 600 1012	1448 471 2821 32009	1011 600	1448 471	101 600 1012	1448 471 2821 32009	1011 600	1448 471	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2	rive, BK45 X 7/8"  H,SE, 5/16-18X0.75()EZ  H,DL  H,SE, 5/16-18X0.75()EZ  H,DL		1011 600 1012 10128	1448 471 2821 32009	1011 600	1448 471 2821 - -	101 <sup>2</sup> 600 1012 1012 -	1448 471 2821 32009	1011 600	1448 471 2821 - -	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2	rive, BK45 X 7/8"  I,SE, 5/16-18X0.75()EZ  L)  uctions  X, P7TQ090C, 3HP HSD-Downflow  X, P7TQ090D, 3HP HSD-Downflow  X, P7TQ120C, 3HP HSD-Downflow		101 <sup>-</sup> 600 1012 10128 -	1448 471 2821 32009	1011 600 1012 -	1448 471 2821 - -	101 <sup>2</sup> 600 1012 1012 -	1448 471 2821 32009	1011 600 1012 —	1448 471 2821 - -	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Motor Controller	rive, BK45 X 7/8"  I,SE, 5/16-18X0.75()EZ  L)  uctions  IX, P7TQ090C, 3HP HSD-Downflow  IX, P7TQ090D, 3HP HSD-Downflow  IX, P7TQ120C, 3HP HSD-Downflow  IX, P7TQ120D, 3HP HSD-Downflow		1011 6000 1012 10128	1448 471 2821 32009	1011 600 1012 -	2821 - - - 32012	101: 600 101: 1012: -	1448 471 2821 32009	1011 600 1012 —	1448 471 2821 - - - - 332012	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Motor Controller	rive, BK45 X 7/8"  I,SE, 5/16-18X0.75()EZ  I,O)  uctions  EX, P7TQ090C, 3HP HSD-Downflow  EX, P7TQ090D, 3HP HSD-Downflow  EX, P7TQ120C, 3HP HSD-Downflow  EX, P7TQ120D, 3HP HSD-Downflow		1011 6000 1012 10128	1448 471 2821 32009 - - -	1011 6000 1012 - - - 10128	2821 - - - 32012	101: 600 101: 1012: -	1448 1471 2821 32009 - - -	1011 6000 1012 - - - 10128	1448 471 2821 - - - - 332012	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Motor Controller Motor Controller	rive, BK45 X 7/8"  I,SE, 5/16-18X0.75()EZ  L)  uctions  IX, P7TQ090C, 3HP HSD-Downflow  IX, P7TQ090D, 3HP HSD-Downflow  IX, P7TQ120C, 3HP HSD-Downflow  IX, P7TQ120D, 3HP HSD-Downflow  IX, 3 HP, 208-230/3/60  IX, 3 HP, 460/3/60		1011 6000 1012 10128	1448 471 2821 32009 - - - - - - 36	1011 6000 1012 - - - 10128	2821 - - - 32012	101: 600 101: 1012: -	1448 1471 2821 32009 - - - - - - - - - - - -	1011 6000 1012 	1448 471 2821 - - - - 332012	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Motor Controller Motor Controller	rive, BK45 X 7/8"  I,SE, 5/16-18X0.75()EZ  I).)  uctions  EX, P7TQ090C, 3HP HSD-Downflow  EX, P7TQ090D, 3HP HSD-Downflow  EX, P7TQ120C, 3HP HSD-Downflow  EX, P7TQ120D, 3HP HSD-Downflow  EX,		1011 6000 1012 10128	1448 471 2821 32009 - - - - 30931 - 42	1011 6000 1012 - - 10128 - 1010	2821 - - - 32012	101: 600 101: 1012: -	1448 1471 2821 32009 - - - - 0931 - 40	1011 6000 1012 - - - 10128 - - 1010	471 2821 - - - - 32012	
BLTTF, SIHWH (Controller Mntg Installation Instr Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Cntrl/Prog, DM2 Motor Controller Motor Controller	rive, BK45 X 7/8"  I,SE, 5/16-18X0.75()EZ  L)  uctions  EX, P7TQ090C, 3HP HSD-Downflow  EX, P7TQ090D, 3HP HSD-Downflow  EX, P7TQ120C, 3HP HSD-Downflow  EX, P7TQ120D, 3HP HSD-Downflow  EX, P7		1011 6000 1012 10128	1448 471 2821 32009 - - - - 0931 - 36 42	1011 6000 1012 - - 10128 - 1010	2821 - - - 32012	101: 600 101: 1012: -	1448 1471 12821 132009 	1011 6000 1012 - - 10128 - 1010	1448 471 2821 - - - - 332012	

Please specify the correct Model No., Serial No, and Part No.(s) when ordering parts from the nearest authorized dealer or service center.

INSTALLER: PLEASE LEAVE THESE INSTALLATION INSTRUCTIONS WITH THE HOMEOWNER



