INSTALLATION INSTRUCTION

I - Shipping and Packing List

Package 1 of 1 contains:

- 1 Power Exhaust Assembly
- 1 Barometric Relief Hood
- 6 #10 x 1/2 x 16 Hex Tec
- 1 End Switch
- 1 1 1/2" Wire Grommet

Check contents for shipping damage. Contact the last carrier immediately if any shipping damage is found.

II - Application

Power exhaust can be used in down flow and horizontal economizer applications. This power exhaust is designed to relieve excess pressure that may occur with economizers or certain building conditions. All fan motors are recognized by UL. Permanently lubricated ball bearing and motor overload protection are standard.



INSTALLATION INSTRUCTIONS FOR

POWER EXHAUST USED WITH Q5SN AND R4G(M,N)-090/120 (R-22) UNITS AND P6SP, R6SP,

Q6SP-072/120 (R410A) UNITS

Figure 1

Unit Model	Nortek Global HVAC Part No.	Volts	Phase	No. of Fans	HP	High Speed			E uran		MOP
						CFM	RPM	FLA	Fuse	MCA	INIOP
R6GP and P6SP- 072* Series R4GM, R4GN,and R6GP - 090* Series P4SM, P4SN,and P6SP - 090* Series	547867	208	- 3	1	0.5	2350	1725	2.50	6A	3.13	5.63
		230						3.00	6A	3.75	6.75
	547868	460	3	1	0.5	2350	1725	1.50	ЗA	1.88	3.38
	547890	575	3	1	0.5	2385	1750	0.88	2A	1.10	1.98
R4GM, R4GN,and R6GP- 120* Series P4SM, P4SN,and P6SP- 120* Series Q5SN and Q6SP - 090*/120* Series	547876	208	3	1	0.75	4900	1140	4.00	9A	5.00	9.00
		230						4.00	9A	5.00	9.00
	547877	460	3	1	0.75	4900	1140	2.00	4A	2.50	4.50
	547891	575	3	1	0.75	4900	1140	1.50	ЗA	1.88	3.38

Note: 1. CFM is per fan curve @ 0.1" w.c. external static pressure 2. Applicable to R6GP, P6SP, Q5SN, and Q6SP Models only.

Table 1

Read these instructions in their entirety before proceeding with the installation of the power exhaust unit, control components, and its wiring.

A Warning:

This kit is to be installed by a qualified service technician in accordance with these instructions and all codes having jurisdiction. Failure to follow these instructions could result in serious injury, property damage, or death. 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.



III - Installation and Electrical Connections

- 1. Disconnect all power to unit.
- 2. Cut and discard wire tie securing wire bundle to the damper motor

FORM # 610A-0709 (610A-0808)

INSTALLATION INSTRUCTION

INSTALLATION INSTRUCTIONS FOR POWER EXHAUST USED WITH Q5SN AND R4G(M,N)-090/120 (R-22) UNITS AND P6SP, R6SP, Q6SP-072/120 (R410A) UNITS

Important - DO NOT cut other wires. Inspect for damaged connections or loose wires.

3. Remove the barometric relief hood of economizer, if previously installed, and retain screws for later use. See Figure 2.

Notice to Installer: This accessory provides a switch for sensing economizer operation and will need to be mounted and wired to the economizer prior to installation of the power exhaust unit. See installation instructions provided with the switch for set up and connection to economizer for proper power exhaust operation.

A Warning:

All electrical wiring must comply with the latest edition of the National Electrical Code (NEC) - NFPA 70.

For R4G(M,N)- 090/ 120 (R-22) Models - IMPORTANT: See unit rating label before operating this accessory to ensure correct field supply wire size has been installed to the unit for proper operation of this accessory.

- 4 Remove plastic hole plug (located on economizer panel between fresh air and return air vanes) and replace with 1 ½ " bushing supplied with this kit.
- 5 Route power exhaust high voltage supply wiring with quick connect plug up through bushing and connect to unit power exhaust plug located to the top right above unit filter rack assembly next to unit economizer plug. Ensure all wiring is secured and away from the economizer vane travel.
- 6 Route power exhaust micro switch and low voltage control wiring up through bushing and follow installation instructions provided with the switch. Ensure all wiring is secured and away from the economizer vane travel.

For Q5SN- 090/120 (R-22) Models and R6GP, P6SP, Q6SP - 072/090/120 (R410A) Models -

NOTE: Application of this accessory on Q5SN-090/120 or R6GP and (P6,Q6)SP–072/090/ 120 models requires a separate branch circuit be brought to the accessory for proper operation. See Table 1 or the accessory rating label for proper branch circuit electrical requirements. (Field Supplied)

- 4 Remove plastic hole plug (located on economizer panel between fresh air and return air vanes) and replace with 1 ½" bushing supplied with this kit.
- 5 Route power exhaust micro switch and low voltage control wiring up through bushing and follow installation instructions provided with the switch. Ensure all wiring is secured and away from the economizer vane travel.
- 6 Removal of the 6 pin/4 wire harness assembly from the "LINE" side of the power exhaust control fuse block is required prior to field wire attachment. Attach properly sized field wire to control contactor.



INSTALLATION INSTRUCTION

INSTALLATION INSTRUCTIONS FOR POWER EXHAUST USED WITH Q5SN AND R4G(M,N)-090/120 (R-22) UNITS AND P6SP, R6SP, Q6SP-072/120 (R410A) UNITS

HORIZONTAL APPLICATION

- 7. Secure power exhaust to side face of the horizontal duct over the precut hole with screws provided. Support assembly as required. Caulk all seams to ensure a leak free seal.
- 8. Install barometric relief hood in front of exhaust air opening.
- 9. Reconnect power to the unit. Energize economizer to an opening greater than what the power exhaust activation switch is set for to verify proper accessory operation.

Return Duct Size:

6 and 7.5 Ton Models - 31 $\frac{1}{2}$ " W $\,$ x 12 $\frac{3}{8}$ " H 10 Ton Models - 31 $\frac{1}{2}$ " W $\,$ x 19" H

Horizontal duct at unit requires 1" top and bottom flanges and $2\frac{1}{2}$ " side flanges for proper mounting and sealing to economizer and unit.

Power Exhaust Air Opening:

6 and 7.5 Ton Models - 30" Ŵ x 11 ½" H 10 Ton Model - 30" W x 18" H





