INSTALLATION INSTRUCTIONS

Wall Mount Energy Recovery Ventilator with Exhaust

Models: ERV-FA5 ERV-FC5

For Use with Bard Wall Mount Air Conditioner and Heat Pump Models:

W42AC, W48AC, W60AC, W72AC W42HB, W48HB, W60HB, W72HB

NOTE: It is highly recommended that this ERV is installed into the unit **prior** to mounting the unit to the wall for improved access to fasteners!



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CONTENTS

General Information	3
Energy Recovery Ventilator Model Nomenclature.	3
Description	3
General	4
Performance and Application Data – ERV-F*	5 5
	-
Installation of Field-Installed ERV-F*5	
Basic Installation	6
Basic Installation	6
Basic Installation Control Wiring	6 13
Basic Installation Control Wiring Control Requirements	6 13 13
Basic Installation Control Wiring	6 13 13 14

General Information	16
Frequency	16
Cleanability and Performance	
Maintenance Procedures	
Quarterly Maintenance	
Annual Maintenance	

FIGURES

Figure 1 Figure 2	Disconnect Power
Figure 3	Remove Front Panels 6
Figure 4	Remove Blank Off Plates (Both Sides) 7
Figure 5	Remove Exhaust Blank Off Plate7
Figure 6	Remove Air Filters and Low Voltage
i iguie o	Control Panel Cover
Figure 7	Remove Screws on Left and Right Side7
Figure 7 Figure 8	Remove Screws from Condenser
rigure o	
	Partition Insert
Figure 9	Remove Condenser Partition Insert 8
Figure 10	Remove Screws from Under Control
	Panel
Figure 11	Remove Screws in Condenser Section 8
Figure 12	Remove Exhaust Partition9
Figure 13	Install Exhaust Blower 9
Figure 14	Install Front Mounting Rail
Figure 15	Install Cassette Support and 4 Wire
	Female Plug9
Figure 16	Install Exhaust Blower Plug10
Figure 17	Run Wires Up to Control Panel
Figure 18	Feed Wires to Left Side of Unit
Figure 19	Insert Wires into Plug 10
Figure 20	Connect White Wire to Terminal Block. 11
Figure 21	Insert Rear ERV Mounting Rail11
Figure 22	Slide Cassette Frame into Mounting
	Rails
Figure 23	Installed Cassette 11
Figure 24	Slide Upper Blower Assembly Over
C	Cassettes
Figure 25	Upper Blower Assembly Over
C	Cassettes
Figure 26	Upper Blower Assembly Installed12
Figure 27	Adjust Cassette Eyebrow 12
Figure 28	Install Upper and Lower Side Covers
i iguro Eo	on Left Side
Figure 29	Install Upper and Lower Side Covers
inguic 25	on Right Side
Figure 30	Install Bug Screen and Gaskets
Figure 31	Speed Tap Label
Figure 32	Airflow Diagram
Figure 33	Belt Replacement Instructions
Figure 34	Hub Assembly with Ball Bearings 18
Figure 35	230V Wiring Diagram
Figure 36	460V Wiring Diagram 19

TABLE

Table 1	Ventilation	Air	(CFM)	1:	3
	· on charlot		(01 10)		-

ENERGY RECOVERY VENTILATOR MODEL NOMENCLATURE ERV F – A 5

Energy Recovery Ventilator

Fixed (24V ON/OFF) -

UNPACKING

Upon receipt of the equipment, be sure to compare the model number found on the shipping label with the accessory identification information on the ordering and shipping document to verify that the correct accessory has been shipped.

Inspect the carton housing of each ventilator as it is received and, before signing the freight bill, verify that all items have been received and that there is no visible damage. Note any shortages or damage on all copies of the freight bill. The receiving party must contact the last carrier immediately, preferably in writing, requesting inspection by the carrier's agent. Concealed damage not discovered until after loading must be reported to the carrier within 15 days of its receipt.

DESCRIPTION

The energy recovery ventilator was designed to provide energy efficient, cost effective ventilation to meet IAQ (Indoor Air Quality) requirements while still maintaining good indoor comfort and humidity control for a variety of applications such as schools, classrooms, lounges, conference rooms, beauty salons and others. It provides a constant supply of fresh air for control of airborne pollutants including CO_2 , smoke, radon, formaldehyde, excess moisture, virus and bacteria.

The ventilator incorporates patented rotary heat exchanger technology to remove both heat and moisture.

It is designed as a single package which can be easily factory or field installed for new installations or retrofit to the new Bard W**A and W**H series wall-mounted units. The package consists of a unique rotary energy recovery cassette that can be easily removed for cleaning or maintenance. The ERV-F*5 has two 13" diameter heat transfer wheels. The heat transfer wheels use a permanently bonded dry desiccant coating for total heat recovery.

Ventilation is accomplished with two blower/motor assemblies each consisting of a drive motor and dual blowers for maximum ventilation at low sound levels. The intake and exhaust blowers can be operated at the same speed (airflow rate) or different speeds to allow flexibility in maintaining desired building pressurization conditions. Factory shipped on medium intake and low Wall Mount Cabinet Size: 5 – W42 thru W72

– Electrical A – 230/208 volt C – 460 volt

> exhaust. See Figure 6 on page 12 to change speeds. The rotating energy wheels provide the heat transfer effectively during both summer and winter conditions. Provide required ventilation to meet the requirements of ASHRAE 62.1 standard.

NOTE: During operation below 5° F outdoor temperature, freezing of moisture in the heat transfer wheel can occur. Consult the factory if this possibility exists.

Be sure the correct model and voltage energy recovery ventilator is used with the correct air conditioner or heat pump to ensure correct voltage compatibility.

Model	For Use Followir	Electrical	
ERV-FA5	W42AC-A, -B W48AC-A, -B W60AC-A, -B W72AC-A, -B	W42HC-A, -B W48HC-A, -B W60HC-A, -B W72HC-A, -B	230/208V 1 or 3 phase
ERV-FC5	W42AC-C W48AC-C W60AC-C W72AC-C	W42HC-C W48HC-C W60HC-C W72HC-C	460V 3 phase

ELECTRICAL SPECIFICATIONS

Model	Voltage	Amps	Control Voltage
ERV-FA5	230/208	2.2	24V
ERV-FC5	460	1.2	24V

GENERAL

The ventilator should only be installed by a trained heating and air conditioning technician. These instructions serve as a guide to the technician installing the ventilator package. They are not intended as a stepby-step procedure with which the mechanically inclined owner can install the package.

The ERV is shipped in one carton which contains the following:

ERVF-A5 (230V)

(1) 920-0454 ERVF upper blower assembly

- (1) 920-0456 ERVF cassette assembly
- (1) 920-0457 ERVF lower blower assembly
- (37) 1012-086 screw type AB HXWHD#10-16X1/2
- (1) 1012-153 screw type AB HXWSHD#10-16X1/2
- (4) 1012-065 screw type AB PZPNHD #8-18x3/8
- (1) 910-2066 ERVF-A5 control board assembly
- (2) 3000-1631 wire assembly
- (1) 3000-1632 wire assembly
- (1) 8611-125-3300 33" of 1/2" split tubing
- (2) 7950-004 cable ties 7" ladder
- (2) 7950-006 nylon cable clamp 1/2"
- (1) 543X224 upper side cover assembly RH $\,$
- (1) 543Y224 upper side cover assembly LH
- (1) 543X225 lower side cover assembly RH $\,$
- (1) 543Y225 lower side cover assembly LH $\,$
- (1) 7003-083 exhaust bug screen
- (2) 1913-002-0808 foam strips
- (1) 4056A249 wiring diagram
- (1) 2100-699 installation instructions

ERVF-C5 (460V)

Includes all of the above 230V plus:

- (49) 1012-086 screw type AB HXWHD#10-16X1/2
- (2) 1012-153 screw type AB HXWSHD#10-16X1/2
- (1) 910-2068 ERVF-C5 control board assembly
- (1) 3000-1634 wire assembly
- (1) 910-2074 transformer assembly
- (4) 7950-004 cable ties 7" ladder
- (1) 7950-012 push mount cable tie 6-1/8"
- (1) 4056A317 wiring diagram
- (1) 2100-699 installation instructions

PERFORMANCE AND APPLICATION DATA – ERV-F*5

Ambie O.D.	nt		VENTILATION RATE 450 CFM 65% EFFICIENCY						VENTILATION RATE 375 CFM 66% EFFICIENCY					VENTILATION RATE 300 CFM 67% EFFICIENCY					
DB/WB	F	VLT	VLS	VLL	HRT	HRS	HRL	VLT	VLS	VLL	HRT	HRS	HRL	VLT	VLS	VLL	HRT	HRS	HRL
	75	21465	14580	6884	13952	9477	4475	17887	12150	5737	11805	8018	3786	14310	9720	4590	9587	6512	3075
105	70	14580	14580	0	9477	9477	0	12150	12150	0	8018	8018	0	9720	9720	0	6512	6512	0
	65	14580	14580	0	9477	9477	0	12150	12150	0	8018	8018	0	9720	9720	0	6512	6512	0
	80	31590	12150	19440	20533	7897	12635	26325	10125	16200	17374	6682	10692	21060	8100	12960	14110	5427	8683
	75	21465	12150	9314	13952	7897	6054	17887	10125	7762	11805	6682	5123	14310	8100	6210	9587	5427	4160
100	70	12352	12150	202	8029	7897	131	10293	10125	168	6793	6682	111	8235	8100	135	5517	5427	90
	65	12150	12150	0	7897	7897	0	10125	10125	0	6682	6682	0	8100	8100	0	5427	5427	0
	60	12150	12150	0	7897	7897	0	10125	10125	0	6682	6682	0	8100	8100	0	5427	5427	0
	80	31590	9720	21870	20533	6318	14215	26325	8100	18225	17374	5345	12028	21060	6480	14580	14110	4341	9768
	75	21465	9720	11744	13952	6318	7634	17887	8100	9787	11805	5345	6459	14310	6480	7830	9587	4341	5246
95	70	12352	9720	2632	8029	6318	1711	10293	8100	2193	6793	5345	1447	8235	6480	1755	5517	4341	1175
	65	9720	9720	0	6318	6318	0	8100	8100	0	5345	5345	0	6480	6480	0	4341	4341	0
	60	9720	9720	0	6318	6318	0	8100	8100	0	5345	5345	0	6480	6480	0	4341	4341	0
	80	31590	7290	24300	20533	4738	15794	26325	6075	20250	17374	4009	13365	21060	4860	16200	14110	3256	10854
	75	21465	7290	14175	13952	4738	9213	17887	6075	11812	11805	4009	7796	14310	4860	9450	9587	3256	6331
90	70	12352	7290	5062	8029	4738	3290	10293	6075	4218	6793	4009	2784	8235	4860	3375	5517	3256	2261
	65	7290	7290	0	4738	4738	0	6075	6075	0	4009	4009	0	4860	4860	0	3256	3256	0
	60	7290	7290	0	4738	4738	0	6075	6075	0	4009	4009	0	4860	4860	0	3256	3256	0
	80	31590	4860	26730	20533	3159	17374	26325	4050	22275	17374	2672	14701	21060	3240	17820	14110	2170	11939
	75	21465	4860	16605	13952	3159	10793	17887	4050	13837	11805	2672	9132	14310	3240	11070	9587	2170	7416
85	70	12352	4860	7492	8029	3159	4870	10293	4050	6243	6793	2672	4120	8235	3240	4995	5517	2170	3346
	65	4860	4860	0	3159	3159	0	4050	4050	0	2672	2672	0	3240	3240	0	2170	2170	0
	60	4860	4860	0	3159	3159	0	4050	4050	0	2672	2672	0	3240	3240	0	2170	2170	0
	75	21465	2430	19035	13952	1579	12372	17887	2025	15862	11805	1336	10469	14310	1620	12690	9587	1085	8502
80	70	12352	2430	9922	8029	1579	6449	10293	2025	8268	6793	1336	5457	8235	1620	6615	5517	1085	4432
	65	4252	2430	1822	2764	1579	1184	3543	2025	1518	2338	1336	1002	2835	1620	1215	1899	1085	814
	60	2430	2430	0	1579	1579	0	2025	2025	0	1336	1336	0	1620	1620	0	1085	1085	0
	70	12352	0	12352	8029	0	8029	10293	0	10293	6793	0	6793	8235	0	8235	5517	0	5517
75	65	4252	0	4252	2764	0	2764	3543	0	3543	2338	0	2338	2835	0	2835	1899	0	1899
	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Summer Cooling Performance (Indoor Design Conditions 75°DB/62°WB)

Winter Heating Performance (Indoor Design Conditions 70°F DB)

Ambient	VENTILATION RATE									
0.D.	450 80% EFF		375 81% EFF	CFM FICIENCY	300 CFM 82% EFFICIENCY					
DB/°F	WVL	WHR	WVL	WHR	WVL	WHR				
65	2430	1944	2025	1640	1620	1328				
60	4860	3888	4050	3280	3240	2656				
55	7290	5832	6075	4920	4860	3985				
50	9720	7776	8100	6561	6480	5313				
45	12150	9720	10125	8201	8100	6642				
40	14580	11664	12150	9841	9720	7970				
35	17010	13608	14175	11481	11340	9298				
30	19440	15552	16200	13122	12960	10627				
25	21870	17496	18225	14762	14580	11955				
20	24300	19440	20250	16402	16200	13284				
15	26730	21384	22275	18042	17820	14612				

LEGEND:

- VLT = Ventilation Load Total
- VLS = Ventilation Load Sensible
- VLL = Ventilation Load Latent
- HRT = Heat Recovery Total HRS = Heat Recovery Sensible
- HRL = Heat Recovery Latent
- WVL = Winter Ventilation Load
- WHR = Winter Heat Recovery

NOTE: All performance data is based on operating intake and exhaust blower on the same speed.

INSTALLATION OF FIELD-INSTALLED ERV-F*5

Basic Installation

NOTE: It is highly recommended that this ERV is installed into the unit **prior** to mounting the unit to the wall for improved access to fasteners!

▲ WARNING

Electrical shock hazard.

Disconnect remote electrical power supply or supplies before servicing.

Failure to do so could result in electric shock or death.

🛆 WARNING

Exposed moving parts.

Disconnect electrical power before servicing.

Failure to do so could result in severe injury or amputation.

Cut hazard.

Wear gloves to avoid contact with sharp edges.

Failure to do so could result in personal injury.

Disconnect all power to unit (see Figure 1).

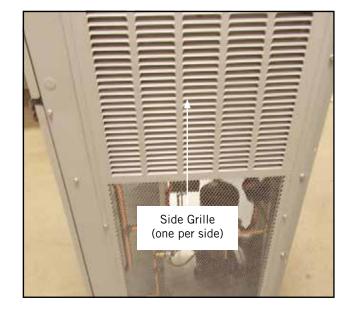




IMPORTANT: Sheet metal has sharp edges. The use of personal protective equipment (PPE) is required.

Remove both side grilles (see Figure 2).

FIGURE 2 Remove Side Grilles



Remove all front panels on unit (see Figure 3).

FIGURE 3 Remove Front Panels



Remove blank off plates (both sides) and discard (see Figure 4).

FIGURE 4 Remove Blank Off Plates (Both Sides)



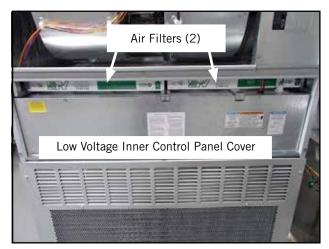
Remove exhaust blank off plate through return or through side intake openings and discard (see Figure 5).

FIGURE 5 Remove Exhaust Blank Off Plate



Remove both air filters and the low voltage inner control panel cover (see Figure 6).

FIGURE 6 Remove AIr Filters and Low Voltage Control Panel Cover



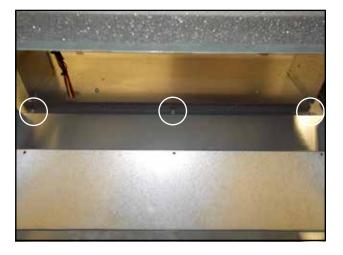
Remove screws on left and right side from condenser partition insert (see Figure 7).

FIGURE 7 Remove Screws on Left and Right Side



Remove screws from condenser partition insert (see Figure 8).

FIGURE 8 Remove Screws from Condenser Partition Insert



Remove condenser partition insert through condenser section (see Figure 9).

Remove two (2) screws under the control panel in the exhaust (see Figure 10).

FIGURE 10 Remove Screws from Under Control Panel



Remove two (2) screws in the condenser section (see Figure 11).

FIGURE 9 Remove Condenser Partition Insert



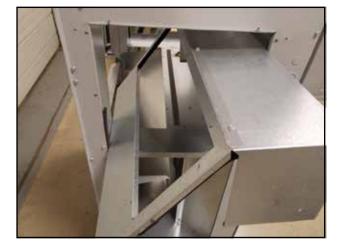
FIGURE 11 Remove Screws in Condenser Section



Remove the exhaust partition through the side intake opening as shown in Figure 12.

Install the front mounting rail on the back of the control panel (see Figure 14).

FIGURE 12 Remove Exhaust Partition

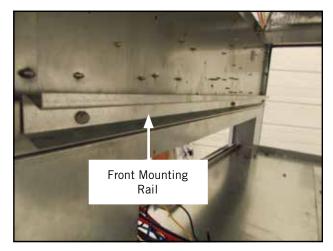


Install the exhaust blower (see Figure 13).

FIGURE 13 Install Exhaust Blower

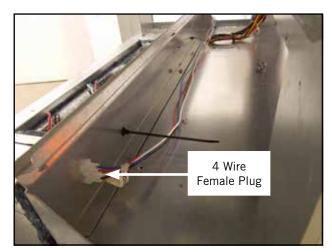


FIGURE 14 Install Front Mounting Rail



Install the cassette support and 4 wire female plug (see Figure 15).

FIGURE 15 Install Cassette Support and 4 Wire Female Plug



Install exhaust blower 4 pin plug into cassette support opening as shown in Figure 16.

Feed wires through the hole and wire channel to the left side of the unit (see Figure 18).

FIGURE 16 Install Exhaust Blower Plug

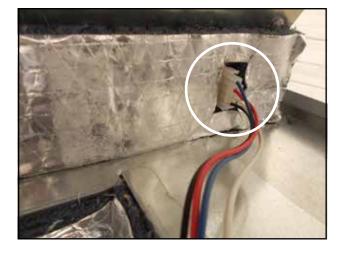


FIGURE 18 Feed Wires to Left Side of Unit



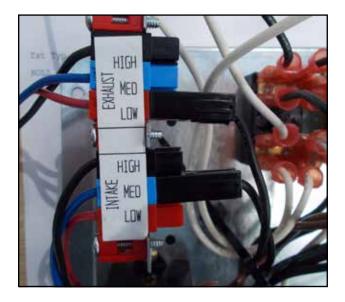
Run the wires from the 4 wire female plug to the front of the unit and through the hole on the right side up to the control panel (see Figure 17).

Insert each wire in the color corresponding plug for exhaust as shown in Figure 19.

FIGURE 17 Run Wires Up to Control Panel

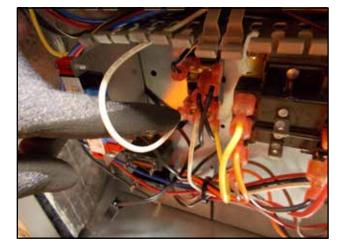


FIGURE 19 Insert Wires into Plug



White wire goes on the terminal block (see Figure 20).

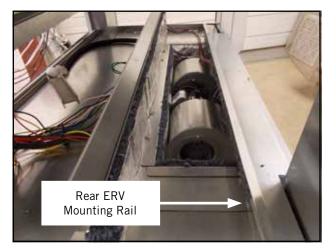
FIGURE 20 Connect White Wire to Terminal Block



See Figures 35 - 39 on pages 19 - 23 for remaining cassette wire routing, transformer mounting and wire routing on 460V models.

Insert the rear ERV mounting rail as shown in Figure 21.

FIGURE 21 Insert Rear ERV Mounting Rail



Insert cassettes by sliding the cassette frame into the front mounting rail and the rear ERV mounting rail (see Figure 22). The cassettes should also slide in on the cassette support.

FIGURE 22 Slide Cassette Frame into Mounting Rails



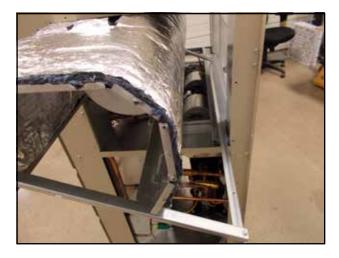
Figure 23 shows installed cassettes with the rear ERV mounting rail.

FIGURE 23 Installed Cassette



Slide in upper blower assembly on the front mounting rail over the cassettes (see Figure 24).

FIGURE 24 Slide Upper Blower Assembly Over Cassettes



Upper blower assembly should slide over the cassettes without scraping them (as shown in Figure 25).

FIGURE 25

Figure 26 shows upper blower assembly installed.

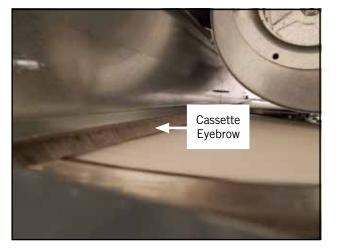
FIGURE 26 Upper Blower Assembly Installed



Cassette eyebrow should be adjusted to lightly touch the cassettes (see Figure 27).

FIGURE 27 Adjust Cassette Eyebrow





Install the upper and lower side covers on left side as shown in Figure 28.

FIGURE 28 Install Upper and Lower Side Covers on Left Side



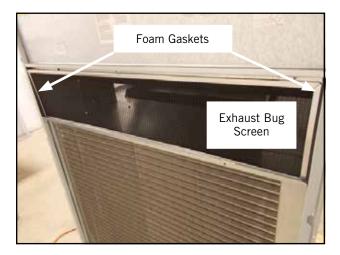
Install the upper and lower side covers on right side as shown in Figure 29.

FIGURE 29 Install Upper and Lower Side Covers on Right Side



Install the 7003-083 exhaust bug screen. Install two (2) 1913-002-0808 foam gaskets to sides of cabinet (see Figure 30).

FIGURE 30 Install Bug Screen and Gaskets



Re-install all front panels and both side grilles. Restore power to unit

Control Wiring

The ERV-F comes from the factory with the low voltage control wires connected to the wall mount low voltage terminal strip. Care must be taken when deciding how to control the operation of the ventilator. When designing the control circuit for the ventilator, the following requirements must be met.

Control Requirements

- 1. Indoor blower motor will automatically run whenever the ERV-F is run.
- 2. Select the correct motor speed tap in the ERV-F. Using Table 1, determine the motor speed needed to get the desired amount of ventilation air needed. For instance, do not use the high speed tap on a ERV-F*5 if only 300 CFM of ventilation air is needed. Use the low speed tap instead (see **VENTILATION AIRFLOW** for information on moving the speed taps). Using the high speed tap would serve no useful purpose and significantly affect the overall efficiency of the air conditioning system. System operating cost would also increase.

TABLE 1 Ventilation Air (CFM)

Model	High Speed	Medium Speed	Low Speed
	(Black)	(Blue)	(Red)
ERV-FA5 ERV-FC5	480	400	300

3. Run the ERV-F only during periods when the conditioned space is occupied. Running the ERV-F during unoccupied periods wastes energy, decreases the expected life of the ERV-F and can result in a large moisture buildup in the structure. The ERV-F removes 60-70% of the moisture in the incoming air, not 100% of it. Running the ERV-F when the structure is unoccupied allows moisture to build up in the structure because there is little or no cooling load. Thus, the air conditioner is not running enough to remove the excess moisture being brought in. Use a control system that in some way can control the system based on occupancy.

▲ IMPORTANT

Operating the ERV-F during unoccupied periods can result in a buildup of moisture in the structure.

Recommended Control Sequences

Several possible control scenarios are listed below:

- 1. Use a programmable electronic thermostat with auxiliary terminal to control the ERV-F based on daily programmed occupancy periods. Bard markets and recommends Bard Part No. 8403-060 programmable electronic thermostat for air conditioner and heat pump applications.
- 2. Use a motion sensor in conjunction with a mechanical thermostat to determine occupancy in the structure. Bard recommends Bard Model CS9B*-**** CompleteStat for this application.
- 3. Use a CO_2 control with dry contacts to energize the ERV-F when CO_2 levels rise above desired settings.
- 4. Use a DDC control system to control the ERV-F based on a room occupancy schedule to control the ERV-F.
- 5. Tie the operation of the ERV-F into the light switch. The lights in a room are usually on only when occupied.
- 6. Use a manual timer that the occupants turn to energize the ERV-F for a specific number of hours.
- 7. Use a programmable mechanical timer to energize the ERV-F and indoor blower during occupied periods of the day.

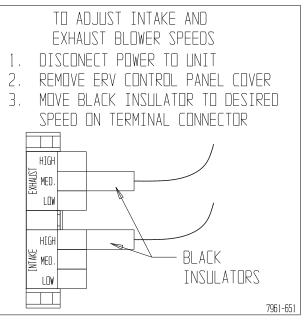
Ventilation Airflow

The ERV-FA* and ERV-FC* are equipped with a 3-speed motor to provide the capability of adjusting the ventilation rates to the requirements of the specific application by changing motor speeds (see Table 1 on page 13).

Open disconnect to shut all power OFF before changing motor speeds. Failure to do so could result in injury or death due to electrical shock.

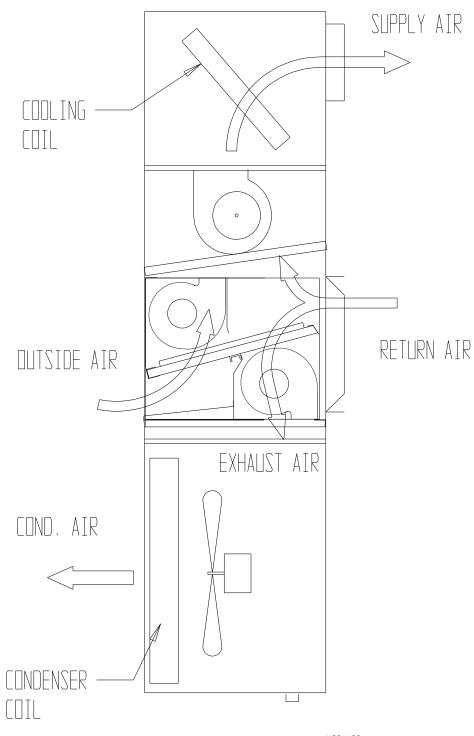
The units are set from the factory with the exhaust blower on the low speed and the intake blower on medium speed. Moving the speed taps located in the control panel can change the blower speed of the intake and exhaust (see Figure 31).

FIGURE 31 Speed Tap Label



MIS-2120





ENERGY RECOVERY VENTILATOR MAINTENANCE

General Information

The ability to clean exposed surfaces within air moving systems is an important design consideration for the maintenance of system performance and air quality. The need for periodic cleaning will be a function of operating schedule, climate and contaminants in the indoor air being exhausted and in the outdoor air being supplied to the building. All components exposed to the airstream, including energy recovery wheels, may require cleaning in most applications.

Rotary counterflow heat exchanges (heat wheels) with laminar airflow are "self-cleaning" with respect to dry particles. Smaller particles pass through; larger particles land on the surface and are blown clear as the flow direction is reversed. For this reason, the primary need for cleaning is to remove films of oil-based aerosols that have condensed on energy transfer surfaces. Buildup of material over time may eventually reduce airflow. Most importantly, in the case of desiccant-coated (enthalpy) wheels, such films can close off micron-sized pores at the surface of the desiccant material, reducing the efficiency with which the desiccant can absorb and desorb moisture.

Frequency

In a reasonably clean indoor environment such as a school, office building or home, experience shows that reductions of airflow or loss of sensible (temperature) effectiveness may not occur for 10 or more years. However, experience also shows that measurable changes in latent energy (water vapor) transfer can occur in shorter periods of time in commercial, institutional and residential applications experiencing moderate occupant smoking or with cooking facilities. In applications experiencing unusually high levels of occupant smoking, such as smoking lounges, nightclubs, bars and restaurants, washing of energy transfer surfaces, as frequently as every 6 months, may be necessary to maintain latent transfer efficiency. Similar washing cycles may also be appropriate for industrial applications involving the ventilation of high levels of smoke or oil-based aerosols such as those found in welding or machining operations, for example. In these applications, latent efficiency losses of as much as 40% or more may develop over a period of 1 to 3 years.

Cleanability and Performance

In order to maintain energy recovery ventilation systems, energy transfer surfaces must be accessible for washing to remove oils, grease, tars and dirt that can impede performance or generate odors. Washing of the desiccant surfaces is required to remove contaminate buildups that can reduce absorption of water molecules. The continued ability of an enthalpy wheel to transfer latent energy depends upon the permanence of the bond between the desiccant and the energy transfer surfaces.

Bard wheels feature silica gel desiccant permanently bonded to the heat exchange surface without adhesives; the desiccant will not be lost in the washing process. Proper cleaning of the Bard energy recovery wheel will restore latent effectiveness to near original performance.

Maintenance Procedures

NOTE: Local conditions can vary and affect the required time between routine maintenance procedures; therefore, all sites (or specific units at a site) may not have the same schedule to maintain acceptable performance. The following timetables are recommended and can be altered based on local experience.

Quarterly Maintenance

- 1. Inspect bug screen/prefilter and clean if necessary. This filter is located behind the front condenser grille. This is a nonmetallic filter and can be cleaned with soap and water only.
- 2. Inspect wall mount unit filters and clean or replace as necessary. These filters are located either in the unit, in a return air filter grille assembly or both. If in the unit they can be accessed by removing the front control panel on the front of the unit. If in a return air filter grille, hinge the grille open to gain access.
- 3. Inspect energy recovery ventilator for proper wheel rotation and dirt buildup. This can be done in conjunction with Item 2 above. Energize the energy recovery ventilator after inspecting the filter and observe for proper rotation and/or dirt buildup.
- 4. Recommended energy recovery wheel cleaning procedures follow: Disconnect all power to unit. Remove the front condenser grill and left or right side condenser grille of the wall mount unit to gain access to the energy recovery ventilator.
- 5. Remove the upper and lower side covers. Unplug amp connectors to cassette motors. Slide energy recovery cassette out of ventilator.
- 6. Use a shop vacuum with brush attachment to clean both sides of the energy recovery wheels.
- 7. Reverse shop vacuum to use as a blower and blow out any residual dry debris from the wheel.
- **NOTE:** Discoloration and staining of the wheel does not affect its performance. Only excessive buildup of foreign material needs to be removed.

8. If any belt chirping or squealing noise is present, apply a small amount of LPS-1 or equivalent dry film lubricant to the belt.

Annual Maintenance

- 1. Inspect and conduct the same procedures as outlined under **Quarterly Maintenance**.
- 2. To maintain peak latent (moisture) removal capacity, it is recommended that the energy recovery wheels be sprayed with a diluted nonacid-based evaporator coil cleaner or alkaline detergent solution such as 409.
- **NOTE:** Do not use acid-based cleaners, aromatic solvents, temperatures in excess of 170°F or steam. Damage to the wheel may result.

Do not disassemble and immerse the entire heat wheel in a soaking solution, as bearing and other damage may result.

- 3. Rinse wheel thoroughly after application of the cleaning solution and allow to drain before re-installing.
- 4. No re-lubrication is required to heat wheel bearings of the drive motor, or to the intake and exhaust blower motors.
- 5. If any belt chirping or squealing noise is present, apply a small amount of LPS-1 or equivalent dry film lubricant to the belt.

Figure 33 Belt Replacement Instructions

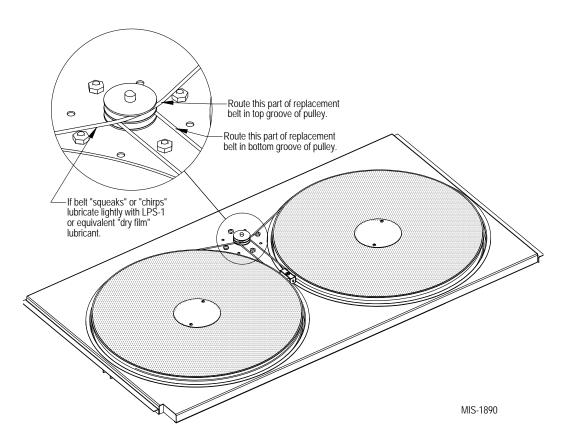


FIGURE 34 Hub Assembly with Ball Bearings

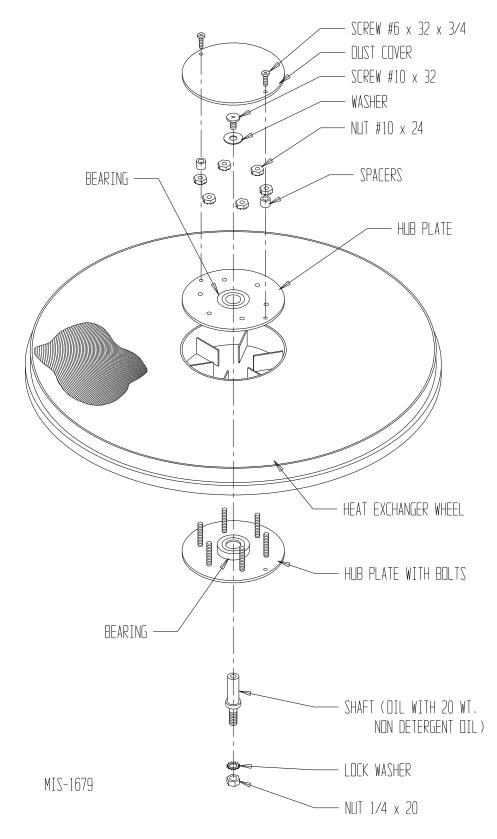


FIGURE 35 Wire Routings

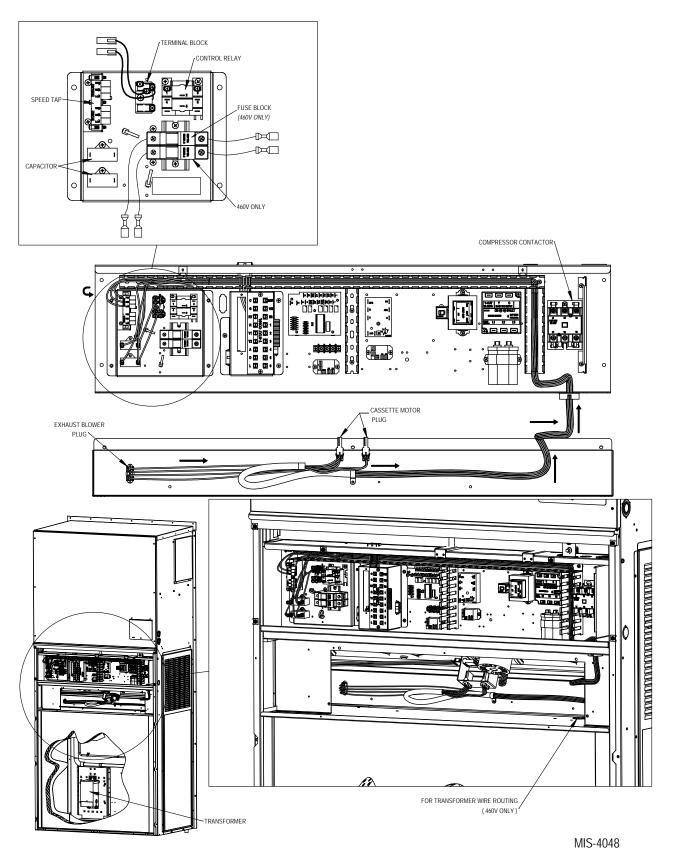


FIGURE 36 Transformer Mounting and Wire Routing (460V Only)

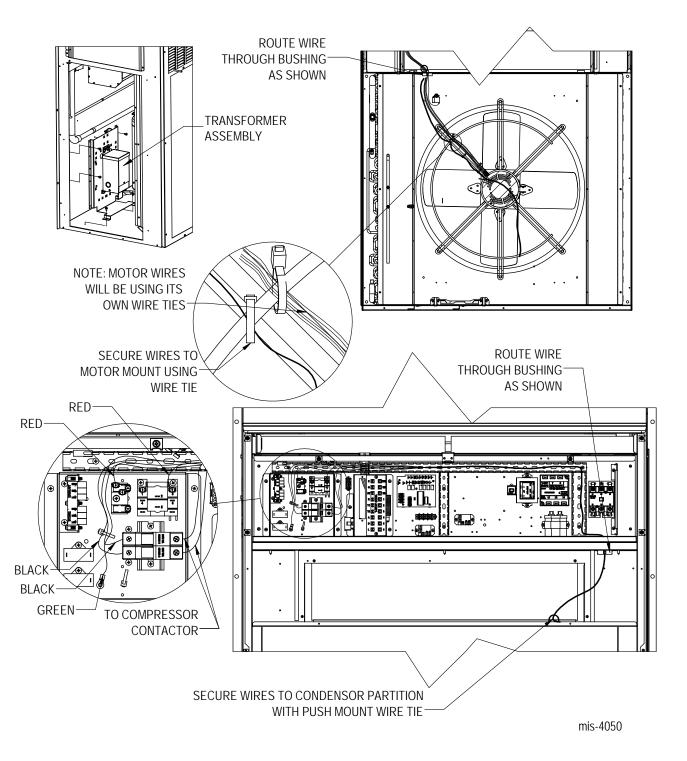
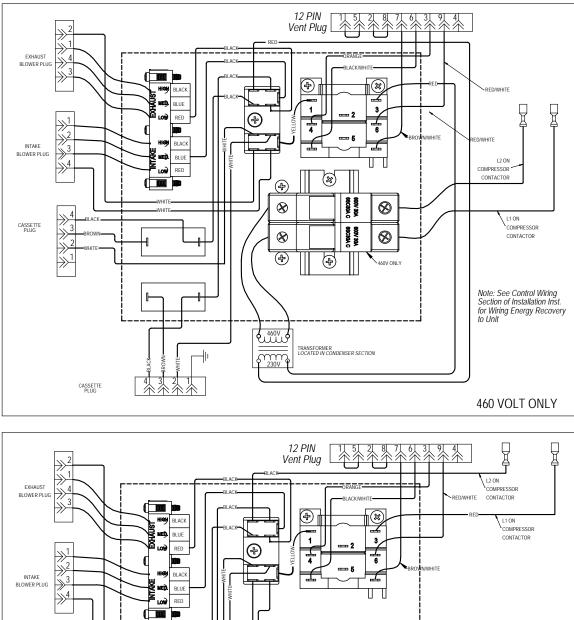


FIGURE 37 Wiring Diagrams



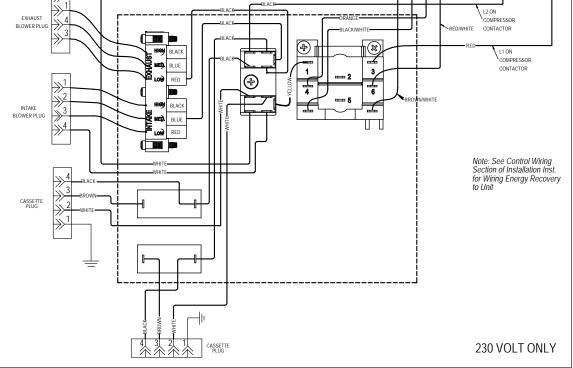


FIGURE 38 230V Wiring Diagram

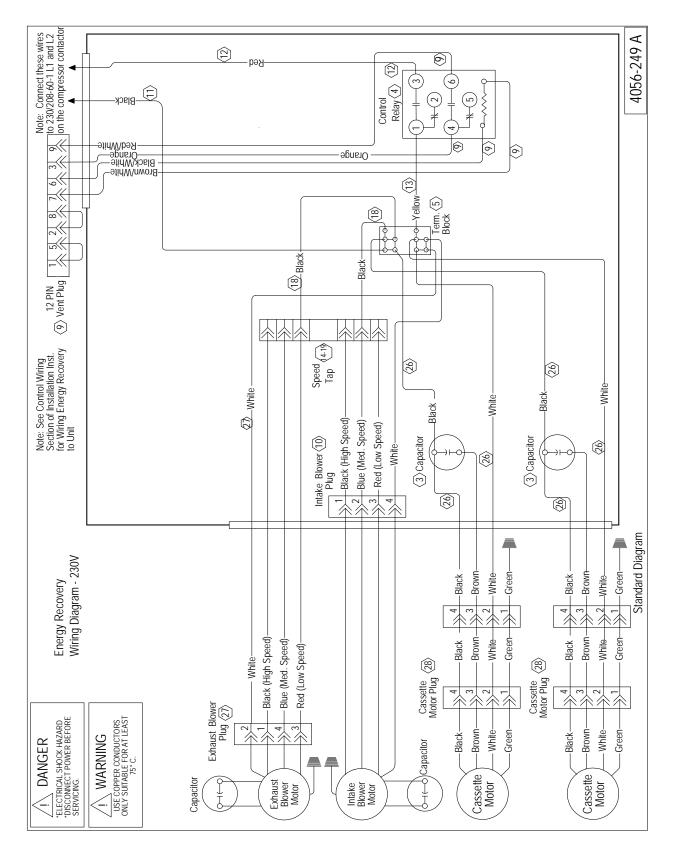


FIGURE 39 460V Wiring Diagram

