

SHR & VHR Series Heat Recovery Ventilator

IMPORTANT - PLEASE READ THIS MANUAL BEFORE INSTALLING UNIT







CAUTION - Before installation, careful consideration must be given to how this system will operate if connected to any other piece of mechanical equipment, i.e. a forced air furnace or air handler, operating at a higher static. After installation, the compatibility of the two pieces of equipment must be confirmed by measuring the airflow's of the Heat Recovery or Energy Recovery Ventilators by using the balancing procedure found in this manual. It is always important to assess how the operation of any HRV/ERV may interact with vented combustion equipment (i.e. Gas Furnaces, Oil Furnaces, Wood Stoves, etc.).

NEVER - install a ventilator in a situation where its normal operation, lack of operation or partial failure may result in the backdrafting or improper functioning of vented combustion

equipment!!!





Your ventilation system should be installed in conformance with the appropriate provincial or state requirements or in the absence of such requirements with the current edition of the National Building Code, and / or ASHRAE's "Good Engineering Practices".

SHR & VHR Models

SHR 1504 • SHR 1505 R(D) • SHR 2004 • SHR 2005 R(D) • SHR 3005 R VHR 1404 • VHR 1405 R • VHR 2004 • VHR 2005 R

The Best Limited Warranty in the Business

- The heat recovery polypropylene core has a <u>limited lifetime warranty</u>.
- The motors found in all Fantech HRV's & ERV's require no lubrication, and are factory balanced to prevent vibration and promote silent operation.
- The limited warranty covers normal use. It does not apply to any defects, malfunctions or failures as a result of improper installation, abuse, mishandling, misapplication, fortuitous occurrence or any other circumstances outside Fantech's control
- Inappropriate installation or maintenance may result in the cancellation of the warranty.
- Any unauthorized work will result in the cancellation of the warranty.
- Fantech is not responsible for any incidental or consequential damages incurred in the use of the ventilation system.
- Fantech is not responsible for providing an authorized service centre near the purchaser or in the general area.
- Fantech reserves the right to supply refurbished parts as replacements.
- Transportation, removal and installation fees are the responsibility of the purchaser.
- The purchaser is responsible to adhering to all codes in effect in his area.
- The warranty is limited to 5 years on parts and 7 years on the motor from the date of purchase, including parts replaced during this time period. If there is no proof of purchase available, the date associated with the serial number will be used for the beginning of the warranty period.
- * This warranty is the exclusive and only warranty in effect relative to the ventilation system and all other warranties either expressed or implied are invalid.

Illustrations & images in this manual may not be exactly like unit purchase, these illustrations & images are for examples only.

1 cfm = 0.47189 l/s 1 l/s = 3.6 m³/hr

TABLE OF CONTENTS

TECHNICAL DATA SHR(D) Series 3 SHR Series 5 SHR 3005R 7 VHR Series 9
OPERATION11Modes Of Operation11Optional Remote Controls12Intellitek Multi-Function Controls EDF512Intellitek Multi-Function Controls 2M13
INSTALLATION 14 Mounting the Unit 14 Location & Ducting 15 Examples 18 Air Flow Balancing 22
MAINTENANCE
TROUBLESHOOTING
ELECTRICAL CONNECTIONS

Sizing (Example) for maximum airflow normally required.

HRVs are typically sized to ventilate the whole house at a minimum of 0.35 air changes per hour. To calculate, simply take the square footage of the house (including basement) and multiply by the height of the ceiling to get cubic volume. Then, divide by 60 and multiply by 0.35. Example:

SQFT of House

1100

Basement 1100
Total SQFT 2200
Height of ceiling x 8
Cubic volume 17600
/ 60

Maximum airflow required (CFM) 293
x 0.35
103

Alternate Method

Room classification	Number of rooms	CFM (L/s)	CFM Required
Master bedroom		x 20 cfm (10 l/s)	=
Basement	yes or no	if yes add 20 cfm / 10 l/s if no = 0	=
Bedrooms		x 10 cfm (5 l/s)	=
Living room		x 10 cfm (5 l/s)	=
Others		x 10 cfm (5 l/s)	=
Kitchen		x 10 cfm (5 l/s)	=
Bathroom		x 10 cfm (5 l/s)	=
Laundry room		x 10 cfm (5 l/s)	=
Utility room		x 10 cfm (5 l/s)	=

^{*} Always consult your local code for sizing requirements in your area.





Introducing the NEW SHR series of Heat Recovery Ventilators (HRV) by Fantech. As with previous designs, incoming fresh outdoor air is filtered before it is heated by the stale outgoing air through a polypropylene heat recovery core. The HRV then distributes the preheated fresh filtered air throughout the home by direct ductwork installed specifically for the HRV or through the ductwork of a forcedair system.

NEW FEATURES:

- Compact Design
- Electrostatic Filters (washable)
- · Airflow Balancing Using Fantech's Easy "TRUE" Motor Adjustment
- External Screw Type Dry Contacts For Push Button Timers (RTS 2), Dehumidistat (MDEH 1), Crank Timer (FD 30M) & EDF5 (5MR) Intellitek control.
- Easy Core Guide Channels For Removing Core
- Better Packaging For More Protection In Shipping
- Models with "D" in the name (SHRD) have access doors on 2 sides of the cabinet for multiple installation arrangements.

OPTIONAL CONTROLS

- EDF 5 Digital Multi-Function Control
- MDEH 2 Mechanical Low Voltage Dehumidistat with On/Off Switch
- MDEH 1 Mechanical Low Voltage Dehumidistat
- 15 Minute Push Button Timer
- FD 30M 30 Minute Crank Timer
- AQS 1 Air Quality Sensor

External screw type dry contacts (provided)

SHR 1505R(D) & SHR 2005R(D)

SPECIFICATIONS

CASE 22 gauge galvanized steel on the SHR 2005R(D) & 24 gauge galvanized steel on the SHR 1505R(D). Baked powder coated paint, antique white. Insulated with 1" (25 mm) high density polystyrene foam to prevent condensation and meet the requirements of the Underwriters Laboratories 94HF.

MOTORS Two (2) German-manufactured, factory-balanced ebm[™] motors with backward curved blades. Motors come with permanently lubricated sealed bearings guarantee long life and maintenance-free operation. Seven (7) year warranty.

CORE A polypropylene heat recovery core configured for an efficient cross-flow ventilation. Core is 9" x 9" (229 x 229 mm) with a 15" (380 mm) depth {SHR 1505R(D)} or 12" x 12" (305 x 305 mm) with a 15" (380 mm) depth (SHR 2005R(D)}. Cores are manufactured to withstand extreme temperature variations.

FILTERS Two (2) Washable Electrostatic Panel Type Air Filters, SHR 1505R(D) is 8.5" (216mm) x 15" (380mm) x 0.125" (3mm), SHR 2005R(D) is 11.75" (298mm) x 15" (380mm) x 0.125" (3mm).

CONTROLS External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls. (see optional controls)

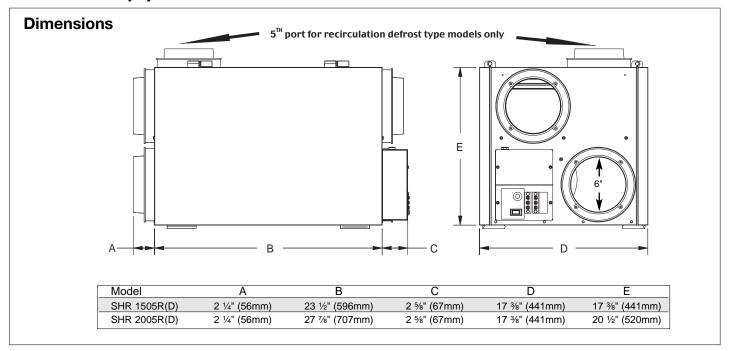
DEFROST A preset 5 minute defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower.

During the defrost sequence, its mechanism uses a motorized damper to temporarily block the incoming fresh air stream allowing the warm air from the home to circulate through the HRV. The exhaust blower shuts down & the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

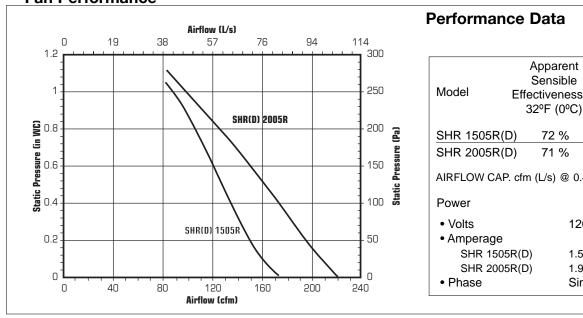
The unit then returns to normal operation for 25 minutes. and continues cycle.

SERVICEABILITY Core, filters, motors and drain pan can be easily serviced through latched access door. Core conveniently slides out with ease on an improved railing system. Electrical box, placed on the outside of the unit, can also be easily accessed.

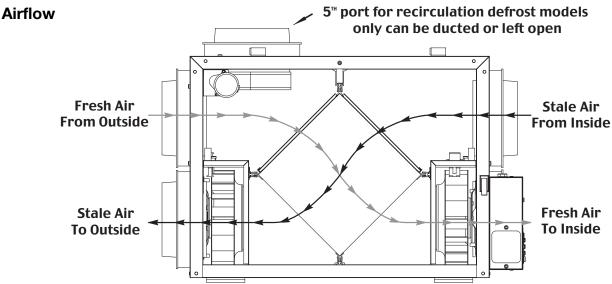
SHR 1505R(D) & 2005R Series HRV



Fan Performance



Model	Apparent Sensible Effectiveness at 32°F (0°C)	Apparent Sensible t Effectiveness at -13°F (-25°C)		
SHR 1505R	(D) 72 %	69 %		
SHR 2005R	(D) 71 %	76 %		
AIRFLOW CAP. cfm (L/s) @ 0.4 on High Speed				
• Volts	120 \	VAC		
Amperage		VAC		
SHR 150	05R(D) 1.5 Ai	mps Total		
SHR 200	` '	mps Total		
Phase	Singl	le Phase cous		







Introducing the NEW SHR series of Heat Recovery Ventilators (HRV) by Fantech. As with previous designs, incoming fresh outdoor air is filtered before it is heated by the stale outgoing air through a polypropylene heat recovery core. The HRV then distributes the preheated fresh filtered air throughout the home by direct ductwork installed specifically for the HRV or through the ductwork of a forcedair system.

NEW FEATURES:

- Compact Design
- Electrostatic Filters (washable)
- Balancing Dampers Included In Installation Kit (not factory installed)
- External Screw Type Dry Contacts For Push Button Timers (RTS 2), Dehumidistats (MDEH 1), Crank Timer (FD 30M) & EDF5 (5MR) Intellitek control.
- Easy Core Guide Channels For Removing Core
- Better Packaging For More Protection In Shipping

OPTIONAL CONTROLS

- FDF 5 Digital Multi-Function Control
- MDEH 2 Mechanical Low Voltage Dehumidistat with On/Off Switch
- MDEH 1 Mechanical Low Voltage Dehumidistat
- RTS 2 - 15 Minute Push Button Timer
- FD 30M 30 Minute Crank Timer
- AQS 1 Air Quality Sensor

External screw type dry contacts (provided)

SHR 1504 & SHR 2004

SPECIFICATIONS

CASE 22 gauge galvanized steel on the SHR 2004 & 24 gauge galvanized steel on the SHR 1504. Baked powder coated paint, antique white. Insulated with 1" (25 mm) high density polystyrene foam to prevent condensation and meet the requirements of the Underwriters Laboratories 94HF.

MOTORS Two (2) German-manufactured, factory-balanced ebm™ motors with backward curved blades. Motors come with permanently lubricated sealed bearings guarantee long life and maintenance-free operation. Seven (7) year warranty.

CORE A polypropylene heat recovery core configured for an efficient cross-flow ventilation. Core is 9" x 9" (229 x 229 mm) with a 15" (380 mm) depth (SHR 1504) or 12" x 12" (305 x 305 mm) with a 15" (380 mm) depth (SHR 2004). Cores are manufactured to withstand extreme temperature variations.

FILTERS Two (2) Washable Electrostatic Panel Type Air Filters, SHR 1504 is 8.5" (216mm) x 15" (380mm) x 0.125" (3mm), SHR 2004 is 11.75" (298mm) x 15" (380mm) x 0.125" (3mm).

CONTROLS External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls. (see optional controls)

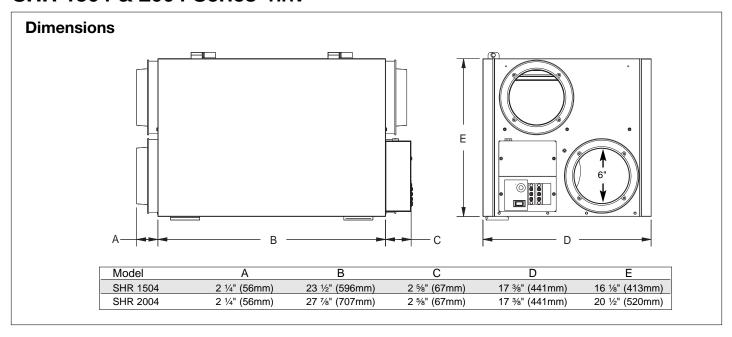
DEFROST A preset 5 minute defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower.

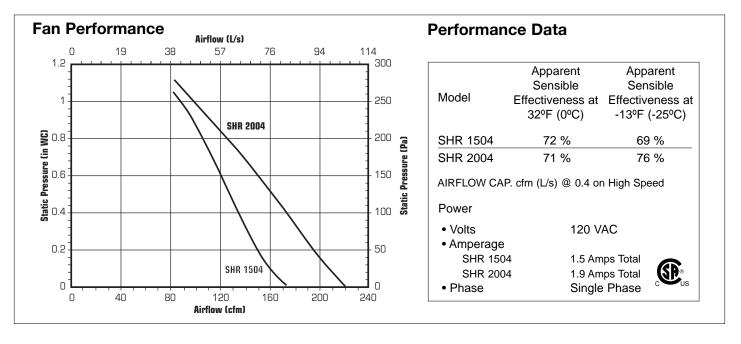
During the defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy.

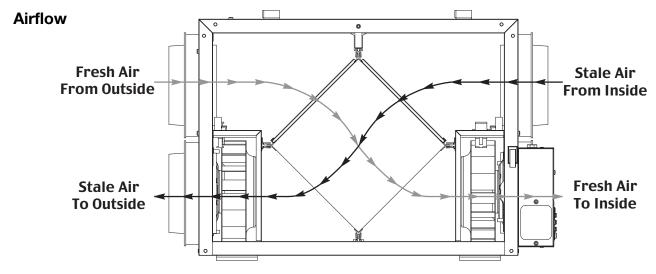
The unit then returns to normal operation for 25 minutes, and continues cycle.

SERVICEABILITY Core, filters, motors and drain pan can be easily serviced through latched access door. Core conveniently slides out with ease on an improved railing system. Electrical box, placed on the outside of the unit, can also be easily accessed.

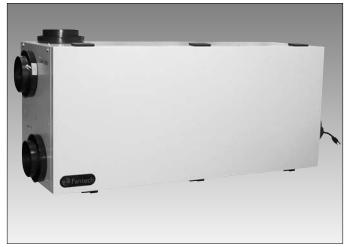
SHR 1504 & 2004 Series HRV











Introducing the SHR 3005R series of Heat Recovery Ventilators (HRV) by Fantech. As with previous designs, incoming fresh outdoor air is filtered before it is heated by the stale outgoing air. The HRV then distributes the preheated fresh filtered air throughout the home by direct ductwork installed specifically for the HRV or through the ductwork of a forced-air system.

NEW FEATURES:

- Balancing Dampers Included In Installation Kit (not factory installed)
- External Screw Type Dry Contacts For Push Button Timers (RTS 2), Dehumidistats (MDEH 1), Crank Timer (FD 30M) & EDF5 (5MR) Intellitek control.

OPTIONAL CONTROLS

• EDF 5 Digital Multi-Function Control

• MDEH 2 - Mechanical Low Voltage Dehumidistat with On/Off Switch

• MDEH 1 - Mechanical Low Voltage Dehumidistat

- 15 Minute Push Button Timer • RTS 2

• FD 30M - 30 Minute Crank Timer

- Air Quality Sensor • AQS 1

External screw type dry contacts (provided)

SPECIFICATIONS

CASE 22 gauge galvanized steel. Baked powder coated paint, grey. Insulated with 1" (25 mm) high density polystyrene foam to prevent condensation and meet the requirements of the Underwriters Laboratories 94HF.

MOTORS Two (2) German-manufactured, factory-balanced ebm™ motors with backward curved blades. Motors come with permanently lubricated sealed bearings guarantee long life and maintenance-free operation. Seven (7) year warranty.

CORES Two (2) polypropylene heat recovery cores configured for an efficient cross-flow ventilation. Core is 12" x 12" (305 x 305 mm) with a 15" (380 mm) depth. Cores are manufactured to withstand extreme temperature variations.

FILTERS Two (2) synthetic high quality filters for better indoor air quality and clean air.

CONTROLS External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls. (see optional controls)

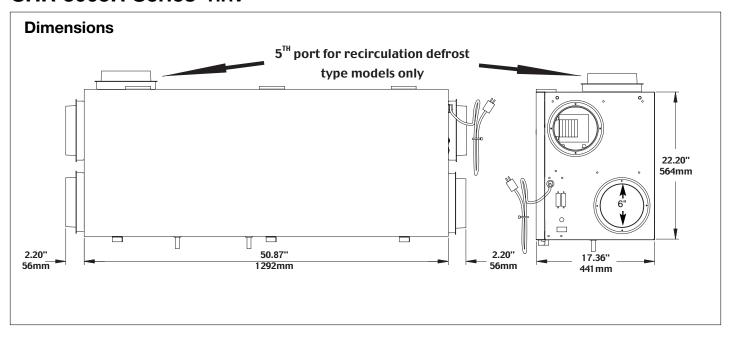
DEFROST A preset 5 minute defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower.

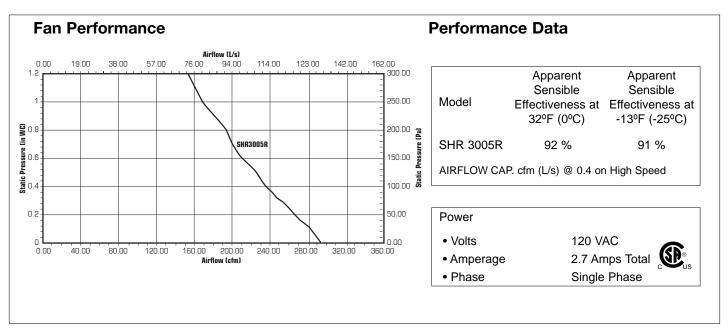
During the SHR 3005R defrost sequence, its mechanism uses a motorized damper to temporarily block the incoming fresh air stream allowing the warm air from the home to circulate through the HRV. The exhaust blower shuts down & the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

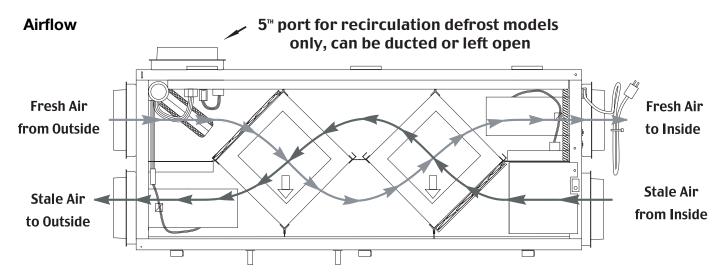
The unit then returns to normal operation for 25 minutes, and continues cycle.

SERVICEABILITY Core, filters, motors and drain pan can be easily serviced through latched access door.

SHR 3005R Series HRV











Introducing the NEW VHR series of Heat Recovery Ventilators (HRV) by Fantech. As with previous designs, incoming fresh outdoor air is filtered before it is heated by the stale outgoing air through a polypropylene heat recovery core. The HRV then distributes the preheated fresh filtered air throughout the home by direct ductwork installed specifically for the HRV or through the ductwork of a forcedair system.

NEW FEATURES:

- Compact Design
- Electrostatic Filters (washable)
- Balancing Dampers Included In Installation Kit (not factory installed)
- External Screw Type Dry Contacts For Push Button Timers (RTS 2), Dehumidistats (MDEH 1), Crank Timer (FD 30M) & EDF5 (5MR) Intellitek control.

OPTIONAL CONTROLS

- EDF 5 Digital Multi-Function Control
- MDEH 2 Mechanical Low Voltage Dehumidistat with On/Off Switch
- MDEH 1 Mechanical Low Voltage Dehumidistat
- RTS 2 - 15 Minute Push Button Timer
- FD 30M 30 Minute Crank Timer
- AQS 1 - Air Quality Sensor

External screw type dry contacts (provided)

VHR Series

1404, 1405R, 2004 & 2005R

SPECIFICATIONS

CASE 22 gauge galvanized steel. Baked powder coated paint, antique white. Insulated with 1" (25 mm) high density polystyrene foam to prevent condensation and meet the requirements of the Underwriters Laboratories 94HF.

MOTORS Two (2) German-manufactured, factory-balanced ebm™ motors with backward curved blades. Motors come with permanently lubricated sealed bearings guarantee long life and maintenance-free operation. Seven (7) year warranty.

CORE A polypropylene heat recovery core configured for an efficient cross-flow ventilation. Core is 9" x 9" (229 x 229 mm) with a 15" (380 mm) depth (VHR 1404 / VHR 1405R) or 12" x 12" (305 x 305 mm) with a 15" (380 mm) depth (VHR 2004 / VHR 2005R). Cores are manufactured to withstand extreme temperature variations.

FILTERS Two (2) Washable Electrostatic Panel Type Air Filters, VHR 1404 / VHR 1405R is 8.5" (216mm) x 15" (380mm) x 0.125" (3mm), VHR 2004 / VHR 2005R is 11.75" (298mm) x 15" (380mm) x 0.125" (3mm).

CONTROLS External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls to compliment its units and allows you to appreciate its functions to the fullest. (see optional controls)

DEFROST A preset 5 minute defrost sequence is activated at an outdoor air temperature of 23°F (-5°C) and lower.

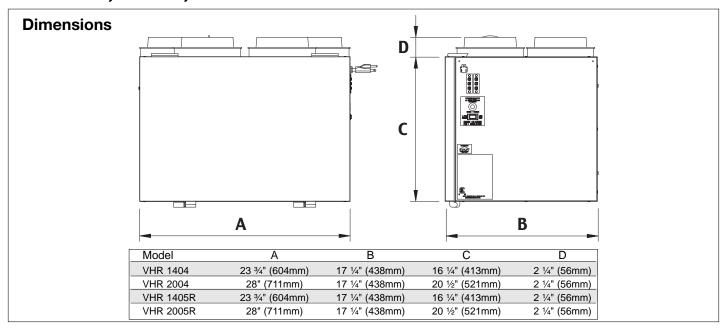
During the VHR Series (1404 & 2004) defrost sequence, the supply blower shuts down & the exhaust blower switches into high speed to maximize the effectiveness of the defrost strategy.

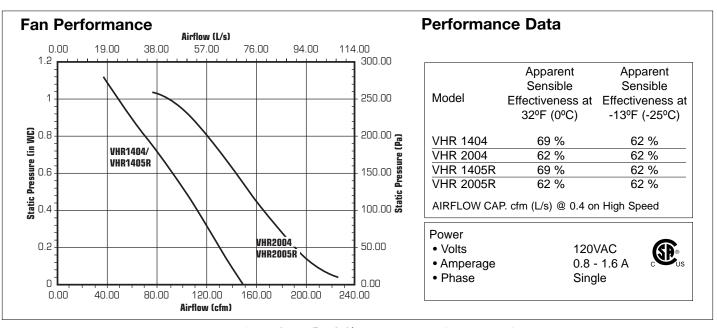
During the VHR R Series (1405R & 2005R) defrost sequence, its mechanism uses a motorized damper to temporarily block the incoming fresh air stream allowing the warm air from the home to circulate through the HRV. The exhaust blower shuts down & the supply blower switches into high speed to maximize the effectiveness of the defrost strategy.

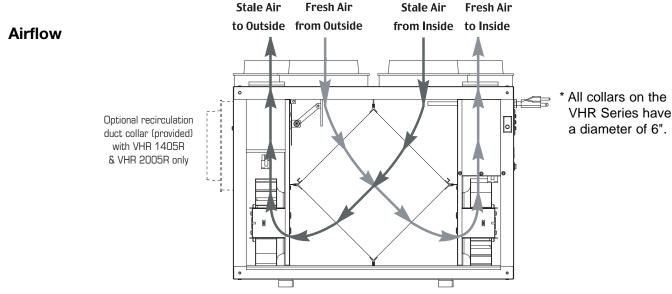
The unit then returns to normal operation for 25 minutes, and continues cycle.

SERVICEABILITY Core, filters, motors and drain pan can be easily serviced through latched access door.

VHR 1404, 1405R, 2004 & 2005R Series HRV







OPERATION

A Heat Recovery Ventilator (HRV) is designed to bring fresh air into a building while exhausting an equal amount of stale air. During the winter months, the incoming cold fresh air is warmed by utilizing the heat recovered from the stale air before it is exhausted to the outdoors. During summer months when the indoor space is air conditioned, the HRV will help in cooling the incoming fresh air with the stale air that is being exhausted.

Fantech HRV's are designed to run continuous or on intermittent, giving the homeowner complete control over their air quality. Continuous low speed ventilation is recommended, which will help eliminate carbon dioxide, voc's and other gases as well as freshen up the home. Intermittent high speed ventilation can be obtained through a variety of optional remote controls found in this manual (page 13). Below are some examples of seasonal operation of an HRV.



Winter:

Humidity control is very important during the winter months. This is when problems will be most apparent since condensation on the windows will often occur. The colder the outside temperature, the greater the risk of condensation in the home. The average relative humidity should be maintained between (30-60) to avoid condensation.

sation. Low speed continuous ventilation with high speed override is recommended.



Summer:

The air is sometimes hot and humid. To stop the warm humid air from entering, set the dehumidistat at its highest level. If the Intellitek series controller is installed, the air exchanger can be set to cycle the unit on and off as desired from that wall control. However, continuous ventilation is recommended.



Spring

Temperatures are more moderate and become warmer each day. To keep the humidity and temperature uniform, set the dehumidistat higher (if installed). You may also switch the HRV to standby mode if desired.



Fall:

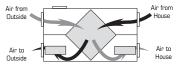
Rain and rapid temperature changes make it difficult to control the internal humidity level and may result in condensation on the windows. A remote dehumidistat may help give greater control over the inside environment.

MODES OF OPERATION

The entire line of SHR(D) / VHR / SER / VER series Heat Recovery & Energy Recovery Ventilators comes equipped with Fantech's new electronic unicontrol board which offers a wide variety of features making it the ultimate ventilation control system. Fantech engineers have used the latest technology to provide solid, trouble free operation under any conditions.

The Fantech uni-control board offers stand alone operating capabilities as well as an exclusive 2 wire communication to most external controls. The trouble-free optional controls include: two different rotary dial dehumidistats, an air quality sensor (3 wire communication required), a 15 minute remote push-button timer, as well as the most sophisticated line of remote wall mounted controls, the Intellitek EDF5 (5MR).

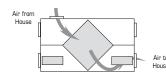
An on-board diagnostic LED helps find problems quickly and efficiently. For example the LED can be used to signal a broken or shorted electronic wall control wire. Electronic air temperature probe gives this board accurate readings in order to minimize unnecessary defrost operation, and the on-board jumpers provide the user with the option of adjusting defrost time and sequence to optimize performance under abnormal conditions. The defrost operation is automatic and is usually never adjusted.



Air from 1. Continuous / Ventilation Mode

In this mode of operation both fans are operating and exchanging air with the outside. The heat recovery ventilator (HRV) constantly exchanges the

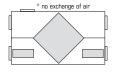
air at the rate you select, either at low or medium speed, and switches to high speed when activated by an optional remote control. The "Low" and "Med" fan speed selection will cause the unit to operate in continuous exchange mode at an exchange rate of 35% and 50% maximum airflow rating respectively. Continuous mode is recommended, since pollutants are slowly but constantly being generated in your house.



3.Defrost/Recirculation Mode (5 port "R" Models)

The automatic defrost cycle SHR R(D) / VHR R models of HRV consists of a damper defrost which allows air to recirculate throughout the unit &

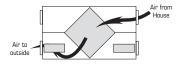
home. When the supply air stream temperature goes below -5°C (23°F), the exhaust motor shuts down, the supply motor goes to high speed, and a damper closes the supply, opening a 5th collar. The ambient air is then recirculated through the unit & home for a period of 5 minutes. The unit will then resume normal operation for a time period of 25 minutes. This damper defrost cycle continues until the supply air stream rises above 0°C (32°F). The recirculation feature can be obtained with the use of an optional Intellitek EDF5 (5MR) control.



2. Intermittent / Standby Mode (SHR(D) / VHR / SER / VER Series of HRV / ERV's)

The system is always on standby and operates at high speed when activated by an optional remote control. "Standby" should be selected if the user wishes to stop the unit from

continuous exchange. We recommend that the "Standby" mode only be used if your system is equipped with an optional external control, in which case, the unit would activate to "High" fan speed, until the control is satisfied and then return to standby (off).



Air from House Hou

The automatic defrost cycle SHR / VHR / SER / VER models of HRV / ERV's consists of a fan shutdown. When the supply air stream tem-

perature goes below -5°C (23°F), the supply motor shuts down and the exhaust motor goes into high speed. Ambient air is passed through the unit for a period of 5 minutes. The supply motor will then re-start and run at the preset speed. The exhaust motor will also slow down to the preset speed, and the unit will operate in the run cycle for 25 minutes. This fan shutdown defrost cycle continues until the supply air stream rises above 0°C (32°F).

OPERATION (CONT'D)

PRACTICAL TIPS

To avoid window condensation:

• It is not necessary to change the humidity control every day. Monitor the average weekly temperature or experiment with various settings until you find a level that is comfortable for you. Adjust the control when needed.

NOTE

A dehumidistat is ideal for use in energy efficient houses where indoor humidity (during the heating season) is higher than outdoor levels. High humidity is a major cause of structure damage and IAQ problems such as mold and mildew.

OPTIONAL REMOTE CONTROLS

* All controls are low voltage. 18 to 24 gauge wire is recommended.



2 wire installation





4 wire installation



3 wire installation



2 wire installation

Dehumidistat I - The wall mount dehumidistat monitors the humidity level in the area it is installed. When the humidity level rises above the desired setpoint, the HRV / ERV will activate to high speed/override mode. Once the humidity level returns to desired condition, the unit will return to the normal

Dehumidistat II - The wall mount dehumidistat II offers the same features of the dehumidistat I plus additional off/on control for the HRV / ERV. Dial illuminates when in override mode.

Air Quality Sensor - The wall mount Air Quality Sensor (AQS) monitors indoor air quality and activates the override mode when carbon monoxide, formaldehyde, benzene, volatile organic compounds and other pollutants are detected. The unit will then return to normal mode once the air pollutants are reduced to a pre-determined lower level.

* This control is not a warning device.

15-min Timer - The 15-minute remote timer is typically installed in areas where contaminated such as moisture and odors, are produced. Simply push the button and the HRV / ERV will activate to high speed for 15 minutes. Up to 5 electronic timers can be installed throughout the building at a distance of up to 500 feet (152 meters) from the HRV / ERV.

PRACTICAL TIPS

NOTE:

When an Intellitek control is installed, the rocker switch located on the right hand side of the HRV / ERV will be automatically deactivated giving the user complete control from wherever he/she wishes to mount the control pad.

NOTE:

The override speed cannot be set at a fan speed lower or equal to the normal operating fan speed. For example, if the unit is normally operating at a medium fan speed, the override fan speed will be automatically set to high.

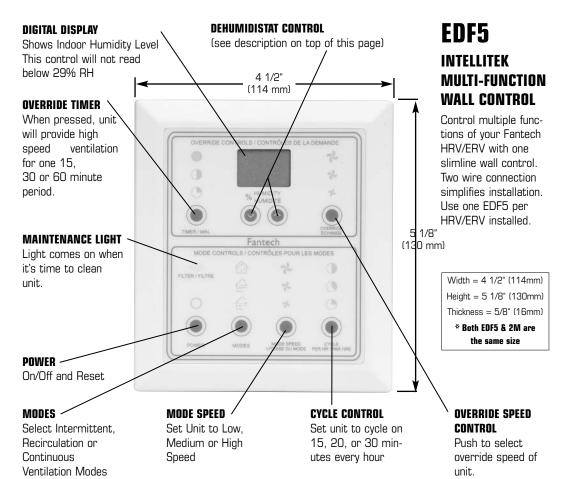
NOTE:

EDF5 model, changing the override speed will change default override speed for other external controls.

EXAMPLES:

If on the EDF5 control, you have set the override control at medium, and you start an external remote control (15 min. timer), the unit will run at medium speed for 15 min.

OPTIONAL INTELLITEK CONTROL



OPERATION (CONT'D)

OPTIONAL INTELLITEK CONTROL

DIGITAL DISPLAY

Shows Indoor Humidity Level This control will not read below 29% RH

DEHUMIDISTAT CONTROL

A Dehumidistat is ideal for use in energy efficient houses where indoor humidity (during the heating season) is higher than outdoor levels. High humidity is a major cause of structure damage and IAQ problems such as mold and mildew.

OVERRIDE TIMER

When pressed, unit will provide high speed ventilation for 15 minute period. Once the time elapsed the unit will return to its normal function. To move from one time to the other, continue pressing the timer button until you reach the desired time.

POWER

On/Off and Reset

This function is to turn your unit on or off, in the off position the damper is open and you will feel the cold outside air come in. To go from the on to off position just press once.

DEHUMIDISTAT CONTROL

seconds.

The LCD (Liquid Crystal Display) indicates the percentage of Relative

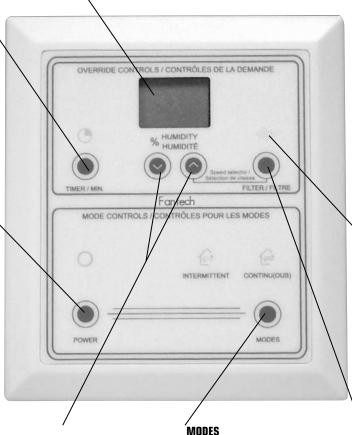
Humidity in the air surrounding the control and ultimately in the

house. Pressing either of the setpoint selectors (• , •) once, will

display the desired RH level. The setpoint selection mode is now acti-

vated and can be adjusted with either selectors to a newly desired

setpoint. The LCD will return to the actual RH level display after a few



Select Intermittent, or Continuous Ventilation Modes.

Continuous

This function will exchange outside air with your stale air.

Intermittent

This function will put your unit on stand by and can be over ride by timer, air quality sensor, etc

To move from function to the other, continue pressing the mode button until you reach the desired function. This function goes from Recirculation, Continuous to Intermittent.

EDF2

INTELLITEK MULTI-**FUNCTION WALL** CONTROL

Control multiple functions of vour Fantech SHR/VHR or SER/VER with one slimline wall control. Two wire connection simplifies installation. Use one 2M per SHR/VHR or SER/VER installed.

MAINTENANCE LIGHT

Light comes on when it's time to clean unit. This function will let you know when it's time to check your filters and core. To reset your filter light, after you've cleaned or replaced the filters, just push the power button and restart the unit. This will turn the light off and reset the clock for your filter check.

FILTER LIGHT RESET & MODE FAN SPEED SELECTOR

Press to reset the filter maintenance reminder light. The combination filter light reset and up setpoint selector buttons let's you choose at which speed the HRV, ERV unit will operate in continuous or recirculation mode only. Pressing the filter light reset button once displays the mode fan speed on the LCD. The LCD should display one of the followong three letters. L for Low, M for Medium and H for High. To change the mode speed, press the up setpoint 🖎 until desired speed is displayed, selector. After 1 second of inactivity, the LCD will return to relative humidity reading.

Note: All controls are low voltage. 18 to 24 gauge wire is recommended.

INSTALLATION

PRACTICAL TIPS

- Install the unit close to the outside wall on which the supply and exhaust hoods will be mounted.
- Have a nearby power supply 120 Volts, 60Hz.
- Have the possibility of mounting the unit to supporting beams.
- Mount the unit as level as possible in order to allow proper condensate drainage.
- Have access to a water drain for the condensate of the unit during defrost.
- Have a certain amount of heat around the unit (attic installation is not recommended).
- Minimize any noise level that would be created by the unit in the living area.
- Have access for future maintenance.

LOCATION

The HRV must be located in a heated space where it will be possible to conveniently service the unit. Typically the HRV would be located in the mechanical room or an area close to the outside wall where the weatherhoods will be mounted. If a basement area is not convenient or does not exist, a utility or laundry room may be used.

Attic installations are not normally recommended due to:

- the complexity of work to install
- freezing conditions in the attic
- difficulty of access for service and cleaning

Connecting appliances to the HRV It is not recommended, including:

- clothes dryer
- range top
- stovetop fan
- central vacuum system

These appliance may cause lint, dust or grease to collect in the HRV , damaging the unit. **NOTE:** Connecting any of these type of appliances to the HRV will invalidate your warranty

MOUNTING



1 Place Fastening hooks on the strapping board or the floor joists.



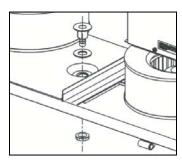
2 Attach a hanging chain (provided) to each 10 3/4" (19 mm) bolt (provided) in the top 4 corners of the unit and tighten.



3 Hang the unit by slipping a link onto the hanging hooks, making sure the unit is level.

Installing Drain Line

Through normal operation and during its defrost mode, the HRV may produce some condensation. This water should flow into a nearby drain, or be taken away by a condensate pump. The HRV and all condensate lines must be installed in a space where the temperature is maintained above the freezing point. A "P" trap should be made in the drain line. This will prevent odors from being drawn back up into the unit.



1 Install the drain nipple.



2 Install the drain hose, making a "P" trap

INSTALLING DUCTS GOING TO / FROM OUTSIDE

A well designed and installed ducting system will allow the HRV to operate at its maximum efficiency. Always try to keep duct runs as short and straight as possible.

See Installation Diagrams for installation examples.

PRACTICAL TIPS

• Decide where your intake and exhaust hoods will be located.

Locating the Intake Weatherhood

- Should be located upstream (if there are prevailing winds) from the exhaust outlet
- At least 4' 6' (2m) from the exhaust weatherhood
- At least 6' (2m) away from dryer vents and furnace exhaust (medium or high efficiency furnaces)
- A minimum of at least 6' (2m) from driveways, oil fill pipes, gas meters, or garbage containers
- At least 18" (457mm) above the ground, or above the depth of expected snow accumulation
- At least 3' (1m) from the corner of the building
- Do not locate in a garage, attic or crawl space

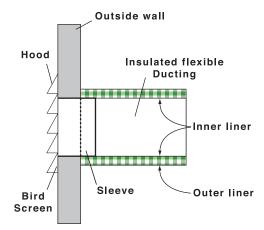
Locating the Exhaust Weatherhood

- At least 6' (2m) from the ventilation air intake
- At least 18" (457mm) above ground or above the depth of expected snow accumulation
- At least 3' (1m) away from the corner of the building
- Not near a gas meter, electric meter or a walkway where fog or ice could create a hazard
- Not into a garage, workshop or other unheated space

When installing the weatherhood, it's outside perimeter must be sealed with exterior caulking.

INSTALLING THE DUCTING TO THE WEATHERHOODS

The inner liner of the flexible insulated duct must be clamped to the sleeve of the weatherhoods (as close to the outside as possible) and to the appropriate port on the HRV. The insulation should remain full and not be squished. The outer liner, which acts as a vapor barrier must be completely sealed to outer wall and the HRV using tape and or caulking. A good bead of high quality caulking (preferably acoustical sealant) will seal the inner flexible duct to both the HRV port and the weatherhood prior to clamping. To minimize air flow restriction, the flexible insulated duct that connects the two outside weatherhoods to the HRV should be stretched tightly and be as short as possible. Twisting of folding the duct will severely restrict air flow.



Model	Description	
FML 8*	8" White Fixed Metal Hoods	
FML 10*	10" White Fixed Metal Hoods	
FML 12*	12" White Fixed Metal Hoods	
COM 6P	Supply & Exhaust Plastic Hood Kit	
COM 6M	Supply & Exhaust Metal Hood Kit	

* Application for Supply or Exhaust



1 Using the collar of the outside hood, outline the intake & exhaust holes to be cut. The holes should be slightly larger than the collar to allow for the thickness of the insulated flexible duct. Cut a hole for both the intake and exhaust hoods.



Pull the insulated flexible duct through the opening until it is well extended and straight. Slide the duct's inner vinyl sleeve over the hood collar and secure, pull the insulation over the duct and then the vapor barrier over the sleeve and secure with duct tape.



3 Push the hood into the opening. Attach the hood to the outside wall with mounting screws. Repeat the installation procedure for both the Supply and Exhaust hood.



4 Using a caulking gun, seal around both hoods to prevent any leaks.

INSTALLING DUCTS TO / FROM INSIDE

To maximize airflow in the ductwork system, all ducts should be kept short and have as few bends or elbows as possible. Forty-five degree are preferred to 90° elbows. Use "Y" tees instead of 90° elbows whenever possible.

All duct joints must be fastened with screws or duct sealant and wrapped with a quality duct tape to prevent leakage. Aluminum foil duct tape is recommended. Galvanized ducting from the HRV/ERV to the living areas in the house is recommended whenever possible, although flexible duct can be used in moderation when necessary.

SUPPLY AIR DUCTING

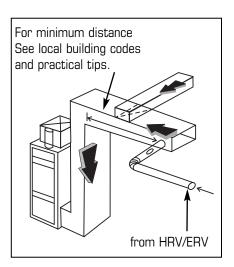
In homes without a forced air furnace, fresh air should be supplied to all habitable rooms including, bedrooms and living areas. It should be supplied from high wall or ceiling locations. Grilles that diffuse the air comfortably such as Fantech grille {MGE (metal) or PGE (plastic)}s are recommended. To avoid possible noise transfer through the ductwork system, a short length (approximately 12", 300 mm) of nonmetallic flexible insulated duct should be connected between the HRV/ERV and the supply/exhaust ductwork system. The main supply and return lines to/from the HRV/ERV must be 6 inches (150 mm) minimum. Branch lines to the individual rooms may be as small as 4 inches (100 mm), but 5 inch (125 mm) lines are preferred. If the floor is the only option available, then special care should be taken in locating grilles. Areas such as under baseboard heaters will help to temper the air. Also optional inline duct heaters are available for mounting in the supply duct work to add heat if required. In homes with a forced air furnace, you may want to connect the HRV/ERV to the furnace ductwork (see information below).

PRACTICAL TIPS

- Building Codes and Combustion Appliance Installation Codes do not allow location of return air grilles or any opening such as a "breathing tee" in an enclosed room with spillage susceptible combustion appliances.
- The fresh air inlet from the HRV / ERV needs to respect a minimum distance from the furnace return drop to ensure proper air mixing and temperature at the furnace core.
 See furnace manufacturer for appropriate specifications.

Direct Connection

• A direct connection requires that the fan of the furnace runs continuously. It may be inter-linked electrically (low voltage) with the HRV / ERV (Accessory Control Contacts) for intermittent demand. Should you wish to hard duct the supply air directly into the cold air return of the furnace, remember to check the airflow balance of the HRV / ERV with the furnace fan both "on" and "off" to determine that it does not imbalance the HRV / ERV more than 10%. Make sure you respect the 1m minimum distance from the supply air in of the HRV / ERV and the furnace (Refer to your local and National Building & Heating Codes for any variations in these notes).



INSTALLING DUCTS TO / FROM INSIDE (CONT'D)

Exhaust Air Ducting

The stale air exhaust system is used to draw air from the points in the house where the worst air quality problems occur. It is recommended that return air ducts be installed in the bathroom, kitchen, and laundry room. Additional return air ducts from strategic locations (i.e. greenhouse, atrium, swimming pool, sauna, etc.) may be installed. The furnace return duct may be also used to exhaust from. In this method, the exhaust air is not ducted back from bathrooms, kitchens, etc to the HRV/ERV with "dedicated lines".

This method has become popular and provides good ventilation when installed in accordance with the instructions. The furnace blower must be running when the HRV/ERV is operating for this method to be effective.

PRACTICAL TIPS

- For new construction, the rigid ducts are run in the walls.
- Choose the location for your Supply and Exhaust grilles - Fantech MGE (metal) or PGE (plastic).
 The Supply grilles should be located in every habitable room and the Exhaust Grilles should be located in the wet rooms.
- A piece of flexible ducting should be placed between the Supply Air In and Out collar of the HRV / ERV and the rigid ducting to absorb any noise or vibrations.
- For proper network of ducting, see TYPES OF INSTALLATIONS.
- The grilles are to be installed on the ceiling or on the wall 6" (152 mm) to 12" (305 mm) from the ceiling.

Dedicated Installation for Existing Home -

(non forced air heating / cooling system)

1 Begin with the duct collar marked "Exhaust Air In". Slide a short piece (12") of flexible duct over the duct collar. Using duct tape, tape the flexible duct to the collar. Run the flexible ducting to the main rigid duct trunk line, which connects to the remainder of the ducts going to and from rooms in the house. Repeat the steps for the "Supply Air Out" on the side of the HRV / ERV.



2 Working from a closet, attic or inside your joist wall, run the length of ducting required for the proper grille location and cut a hole in the drywall. Fasten the mounting collar (optional) to the ducting and fasten the collar to the wall or ceiling with screws.



3 The Fantech grille - MGE (metal) or PGE (plastic) - airflow can be adjusted by rotating the inside unit. It is recommended that the grilles be completely opened at first and then adjusted later as needed.





4 Push the Fantech grille - MGE (metal) or PGE (plastic) - into the optional mounting collar or directly into installed elbow.

INSTALLATION EXAMPLES

It is the responsibility of the installer to ensure all ductwork is sized and installed as designed to ensure the system will perform as intended. All air movement devices have a performance curve. The amount of air (CFM) that an HRV/ERV will deliver is directly related to the total external static pressure (E.S.P.) of the system. Static pressure is a measure of resistance imposed on the blower by length of duct work/number of fittings used in duct work, duct heater etc.

DUCTING FIFTH PORT UNITS (R)

All SHR(D) / VHR / SER / VER Series R (1405R, 1505R, 2005R & 3005R) HRV / ERV's have a fifth duct port on top (SHR(D)/SER) or side (VHR/VER) of the unit. This duct port is for both defrost and the recirculation mode. A motorized damper installed in the port closes during defrost or recirculation temporarily blocking the incoming fresh air-stream, allowing the warm air from the house to circulate through the HRV / ERV. You may wish to duct this port to a common clean air room (living room or dining room) so when recirculation is activated, household odors from the kitchen, bathroom or basement won't be introduced into the living spaces of the home environment.

RADIANT HEATED HOMES

NOTF:

The recirculation function can be accessed with a optional EDF5 (5MR) intellitek control. It allows air to move gently throughout the home without exchanging air to the outside, until needed.

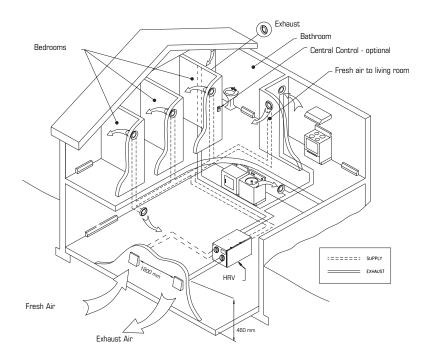
Example diagram only-duct configuration may change depending on model

Fully Dedicated System (new construction)

Stale air drawn from key areas of home (bathroom, kitchen, laundry)

Fresh air supplied to main living areas

HRV/ERV must be balanced



INSTALLATION EXAMPLES (CONT'D)

Example diagram only-duct configuration may change depending on model

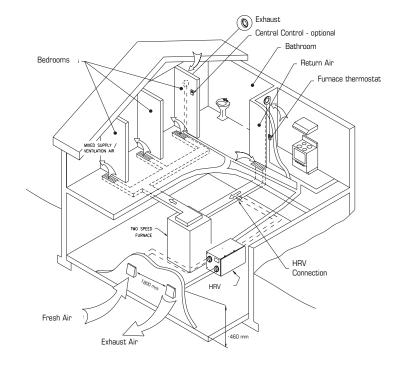
DIRECT CONNECTION of the SUPPLY AIR STREAM to the FURNACE COLD AIR RETURN (Stale air drawn from key areas of home)

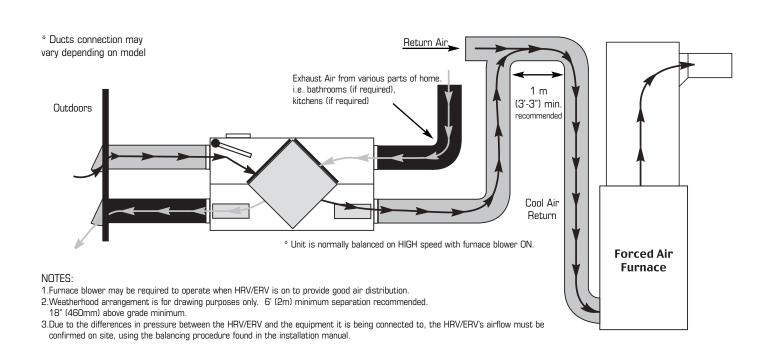
Partially Dedicated System

Stale air drawn from key areas of home (bathroom, kitchen, laundry)

Fresh air supplied to main living areas via the forced air system.

HRV/ERV must be balanced





INSTALLATION EXAMPLES (CONT'D)

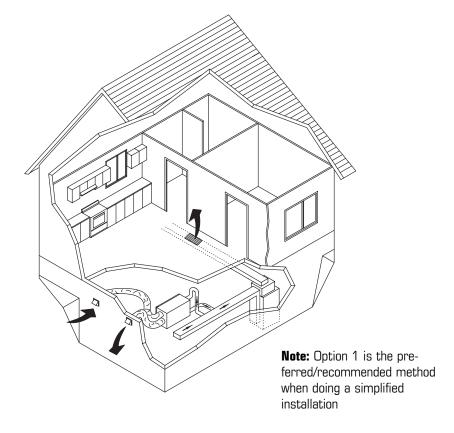
Example diagram only-duct configuration may change depending on model

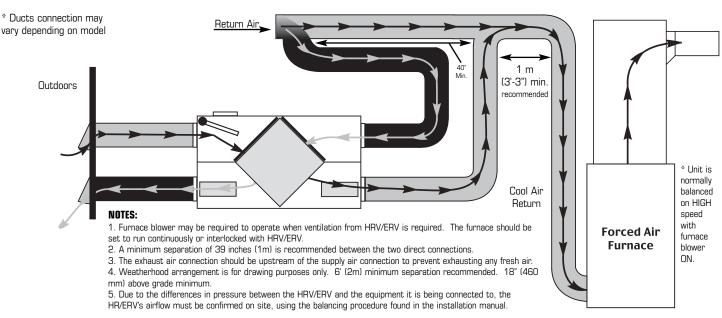
DIRECT CONNECTION of both the HRV/ERV SUPPLY AIR STREAM and EXHAUST AIR STREAM to the FURNACE COLD AIR RETURN

Simplified Installation

Option 1 (Return/Return Method)

- HRV/ERV must be balanced
- It is mandatory that the furnace blower run continuously or HRV/ERV operation be interlocked with the furnace blower
- Check local codes/authority having jurisdiction for acceptance





INSTALLATION EXAMPLES (CONT'D)

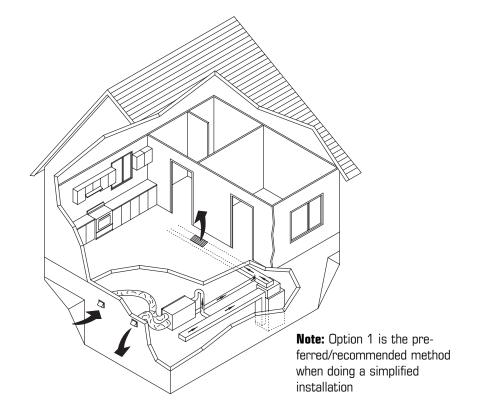
Example diagram only-duct configuration may change depending on model

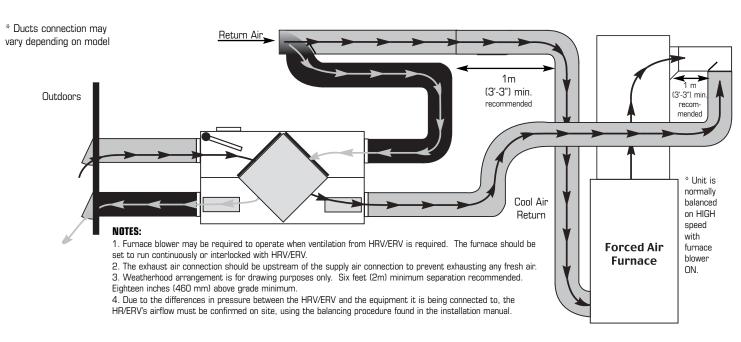
DIRECT CONNECTION of both the HRV/ERV SUPPLY AIR STREAM & EXHAUST AIR STREAM to the FURNACE COLD AIR RETURN & SUPPLY AIR SIDE

Simplified Installation

Option 2 (Supply/Return Method)

- HRV/ERV must be balanced
- It is recommended that the furnace blower run continuously or HRV/ERV operation be interlocked with the furnace blower
- Check local codes /authority having jurisdiction for acceptance





AIR FLOW BALANCING

CAUTION

- If the unit's airflows are not properly balanced...
- The unit may not operate at it's maximum efficiency.
- Heat recovery core damage may occur.
- The unit's use could cause negative or positive pressure in your home causing cold air to enter or other combustible equipment to backdraft.
- The unit may not defrost properly.

PITOT TUBE BALANCING PROCEDURE

PITOT TUBE

BALANCING PROCEDURE

The following is a method of field balancing an HRV/ERV using a Pitot tube, advantageous in situations when flow stations are not installed in the ductwork. Procedure should be performed with the HRV/ERV on high speed.

The first step is to operate all mechanical systems on high speed, which have an influence on the ventilation system, i.e. the HRV/ERV itself and the forced air furnace or air handler if applicable. This will provide the maximum pressure that the HRV/ERV will need to overcome, and allow for a more accurate balance of the unit.

Drill a small hole in the duct (about 3/16), three feet downstream of any elbows or bends, and one foot upstream of any elbows or bends. These are recommended distances but the actual installation may limit the amount of straight duct.

The Pitot tube should be connected to a magnehelic gauge or other manometer capable of reading from 0 to 0.25 in. (0-62 Pa) of water, preferably to 3 digits of resolution. The tube coming out of the top of the pitot is connected to the high pressure side of the gauge. The tube coming out of the side of the pitot is connected to the low pressure or reference side of the gauge.

Insert the Pitot tube into the duct; pointing the tip into the airflow. For general balancing it is sufficient to move the pitot tube around in the duct and take an average or typical reading. Repeat this procedure in the other (supply or return) duct. Determine which duct has the highest airflow (highest reading on the gauge). Reduce this airflow using either the electronic balancing system

(if applicable) (SHR-R) or damper. The flows should now be balanced. Actual airflow can be determined from the gauge reading. The value read on the gauge is called the velocity pressure. The Pitot tube comes with a chart that will give the air flow velocity based on the velocity pressure indicated by the gauge. This velocity will be in either feet per minute or meters per second. To determine the actual airflow, the velocity is multiplied by the cross sectional areas of the duct being measured.

This is an example for determining the airflow in a 6" duct.

The Pitot tube reading was 0.025 inches of water.

From the chart, this is 640 feet per minute.

The 6" diameter (D) duct has cross sectional area (A) of

 $A = 3.14 \times (D/24) 2$

 $A = 3.14 \times (6/24) 2$

A = 0.196 or about 0.2 ft²

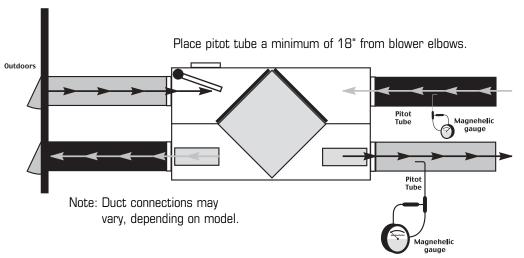
The airflow is then: 640 ft/min x 0.2 ft2 = 128 cfm

For your convenience, the cross sectional area of some common round duct is listed below:

DUCT DIAM. (inches) CROSS SECTION AREA (sq ft.)

5 0.14 6 0.20 7 0.27 8 0.35

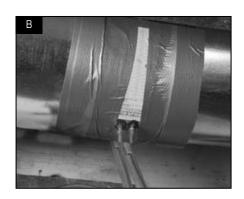
The accuracy of the airflow reading will be affected by how close to any elbows or bends the readings are taken. Accuracy can be increased by taking an average of multiple readings as outlined in the literature supplied with the Pitot tube.



- * Pitot tube should be kept at least 12" away from fans elbows and dampers to ensure accurate reading.
- * A calibration decal is included to place over electronic balancing system adjustments after it has been balanced.
- The balancing procedure consists of measuring the exhaust air leaving the system and the supply air entering the system and ensuring that these two are equal. A deviation of 10% or less is acceptable. In such cases, it is recommended to have a greater amount of exhaust air than supply air as so to increase the supply air's temperature.

AIR FLOW BALANCING (CONT'D)

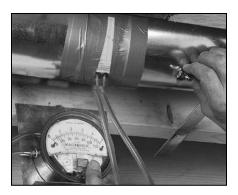
AIRFLOW STATION (GRID) METHOD



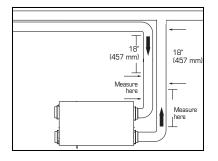
1 For this flow measuring station, cut the duct and place the flow measuring station between each station. Make sure that the flow measuring station's air direction arrow points in the direction of the airflow. Secure the flow measuring station with duct tape.



2 Before taking the reading, make sure that the magnehelic gauge is level and at O. Refer to the flow measuring station's chart to determine your unit's airflow velocity.



3 Adjust the "Supply Air Out" damper until you reach the desired velocity. Follow the previous steps to adjust the "Exhaust Air Out" damper, if needed.



 To avoid airflow turbulence and incorrect readings, the airflow velocity should be measured on steel ducting a minimum of 18" (457 mm) from the unit or elbow and before any transition.

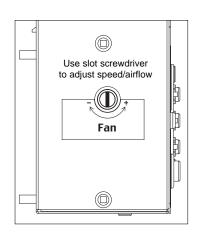
ADJUSTING AIRFLOWS

ELECTRONIC BALANCING MOTORS [SHR 1505R(D) & 2005R only] -

Motors will be factory set at their full potential depending on speed selected.

When unit is installed you will need to balance the motors for proper operation.

Insert screwdriver and turn clockwise to slow down the motor, you will notice the motor changing speeds while performing this operation. Set to desired cfm.



MAINTENANCE

CAUTION MAKE SURE UNIT IS UNPLUGGED BEFORE ATTEMPTING ANY MAINTENANCE WORK

The following components should also be inspected regularly and well maintained.

PRACTICAL TIPS

- To prevent electrical shock, check that the unit is unplugged before doing any repairs or maintenance.
- A yearly inspection is recommended to ensure the efficiency and troublefree use of your system. Run through the system and verify the different operating modes.

The motor - The motors are factory balanced and lubricated for life. They require no maintenance.

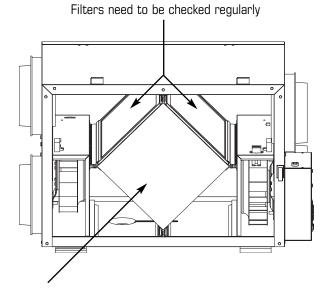
The unit - The inside of the unit should be vacuumed yearly. Be careful not to damage any of the mechanical components and electrical connections.

The drain pan and drain line - Units with drain lines should have their line and connection checked regularly.

Outside hoods - The outside hoods need to be checked every season to make sure there are no leaves or insects blocking the airflow. Check regularly that there are no pollutants near the intake hood. Make sure they are clear of any snow accumulation during the winter months.

FILTERS

The filters (2) need to be checked and cleaned every three months or when they appear dirty. Wash in warm sudsy water (mild detergent) or use a soft brush vacuum. The filters should be replaced when they can no longer be cleaned properly.



HEAT RECOVERY CORE

The heat recovery core needs to be checked and cleaned every six months. The core can be cleaned using a mild soap and water. Rinse thoroughly. Handle with care. Hot water and a strong detergent will damage the heat recovery core. It is recommended to clean the core in the summer or when the temperature is mild. Never clean the heat recovery core during winter.

Clean Core and Filters Every 3-6 Months.

Unplugged before doing any repairs or maintenance

- a) Open access door.
- b) Carefully grip ends of core and pull evenly out ward. Core may be snug, but will slide out of the channel.
- c) Once removed from the cabinet remove filters.
- d) Wash core in warm soapy water (do not use dishwasher).
- e) Install the clean filters.
- f) Install clean core.

To Install the Clean Core and Filters.

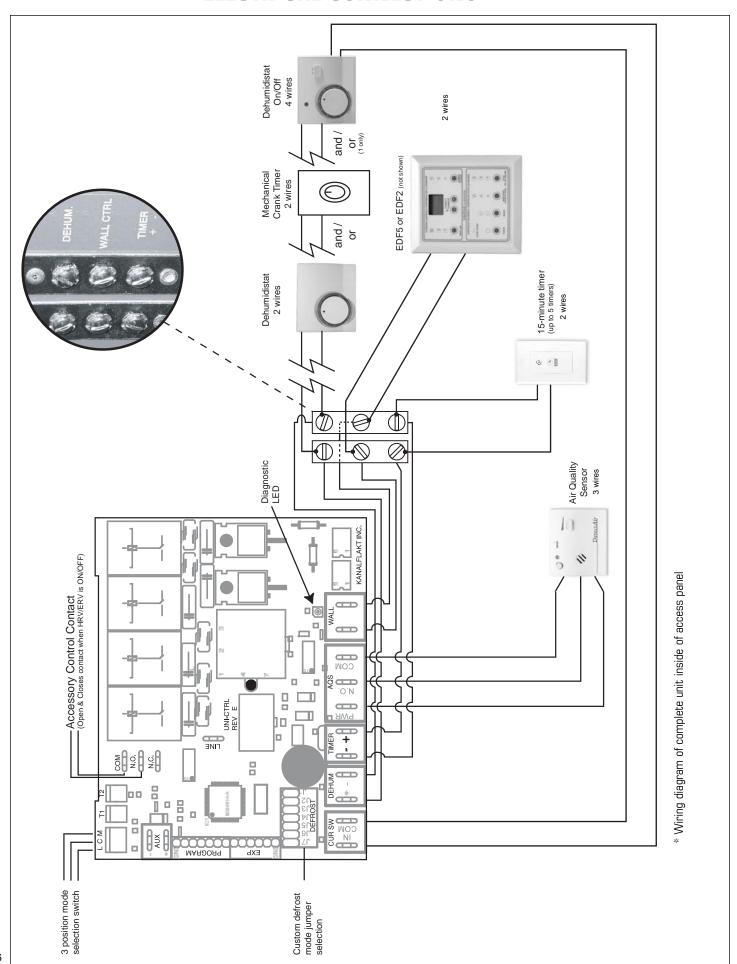
- a) First mount the bottom flange of the core guide into the bottom channel approximately 1/4" (6mm).
- b) Mount the left or right side flange of the core guide approximately 1/4 " (6mm) followed by the other side.
- Mount the top flange of the core guide into the top channel approximately 1/4" (6mm).
- d) With all four corners in place and the core straight and even, push hard in the center of the core until the core stops on the back of the cabinet.

NOTE: Some products may not be exactly as illustrated in Installation, Operation and Maintenance manual.

TROUBLESHOOTING

Problem	Causes	Solutions
Air is too dry	Dehumidistat control is set too low	Increase the desired level of humidity. Change ventilation mode from continuous mode to standby.
	HRV out of balance	Balance HRV
Air is too humid	Dehumidistat control is set too high	Reduce the desired level of humidity. Combine this step with use of continuous exchange mode.
	Sudden change in temperature	Wait until outside temperature stabilizes (winter). Heating will also improve situation.
	Storing too much wood for heating	Store a majority of your wood outside. Even dried, a cord of wood contains more than 20 gallons of water.
	Dryer vent exhaust is inside home	Arrange outside vent for dryer.
	Poor air circulating near windows	Open curtains or blinds. Bay or bow windows may require mechanical method.
	HRV out of balance	Balance HRV
	Well sealed basement door is closed	Open the door or install a grill on the door.
Persistent condensation on window	Improper adjustment of dehumidistat con- trol HRV out of balance	Reduce the desired level of humidity. Combine this with the use of continuous exchange mode. Balance HRV
Poor Air Flows	-1/4" (6mm) mesh on the outside hoods is plugged -Filters plugged -Core obstructed -House grilles closed or blocked -Dampers are closed if installed -Poor power supply at site -Ductwork is restricting HRV/ERV -Improper speed control setting -HRV/ERV airflow improperly balanced	-Clean exterior hoods or vents -Remove and clean filter -Remove and clean core -Check and open grilles -Have electrician check supply voltage at house -Check duct installation -Increase the speed of the HRV/ERV -Have contractor balance HRV/ERV
Supply air feels cold	-Poor location of supply grilles, the airflow may irritate the occupant -Outdoor temperature extremely cold	-Locate the grilles high on the walls or under the baseboards, install ceiling mounted diffuser or grilles so as not to directly spill the supply air on the occupant (eg. Over a sofa) -Turn down the HRV/ERV supply speed. A small duct heater (1kw) could be used to temper the supply air -Placement of furniture or closed doors is restricting the movement of air in the home -If supply air is ducted into furnace return, the furnace fan may need to run continuously to distribute ventilation air comfortably
HRV / ERV and / or Ducts Frosting up	-HRV/ERV air flows are improperly balanced -Malfunction of the HRV/ERV defrost system	-Note: minimal frost build-up is expected on cores before unit initiates defrost cycle functions -Have HVAC contractor balance the HRV/ERV
Condensation or Ice Build Up in Insulated Duct to the Outside	-Incomplete vapor barrier around insulated duct -A hole or tear in outer duct covering	-Tape and seal all joints -Tape any holes or tears made in the outer duct covering -Ensure that the vapor barrier is completely sealed.

ELECTRICAL CONNECTIONS



ELECTRICAL CONNECTIONS (CONT'D)

ELECTRICAL CONNECTION TO A FURNACE

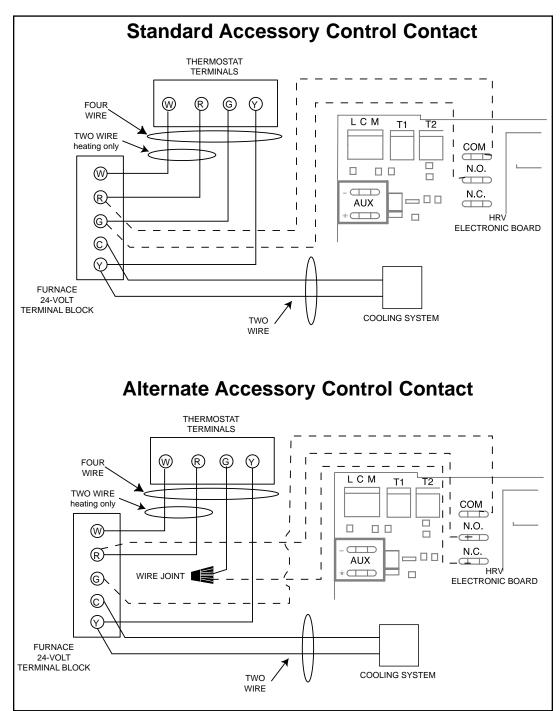
PRACTICAL TIPS

Caution:

 Never connect a 120 volt AC circuit to the terminals of the Accessory Control Contacts.
 Only use the low voltage class 2 circuit of the furnace blower control.

For a Furnace Connected to a Cooling System:

 On some older thermostats, energizing the R and G terminals at the furnace has the effect of energizing Y at the thermostat and thereby turning on the cooling system. If you identify this type of thermostat, you must use the "Alternate Furnace Interlock Wiring".





Technical support hotline 1.800.565.3548

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(T) 1.905.696.9235 • (F) 1.905.696.9236

Québec & Atlantic Provinces

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