

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

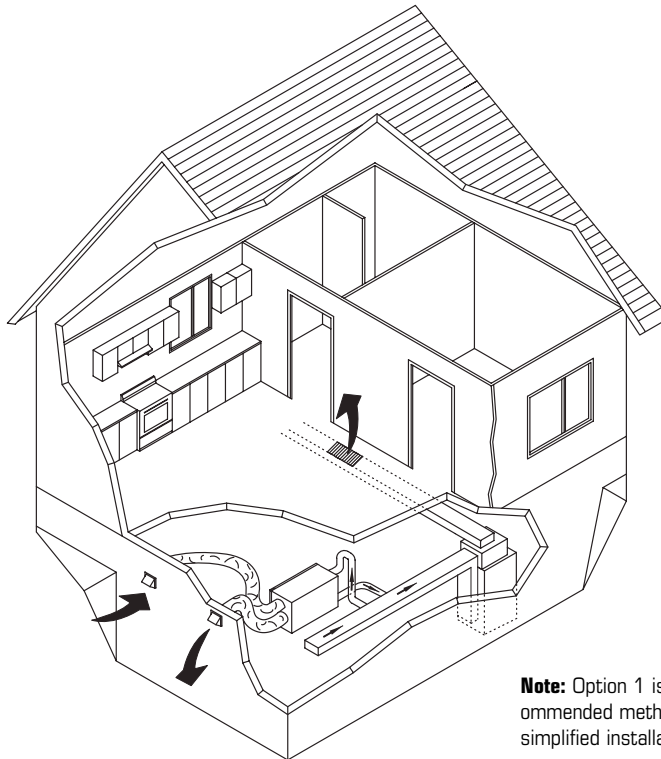
Simplified Installation

Option 1 (Return/Return Method)

- 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

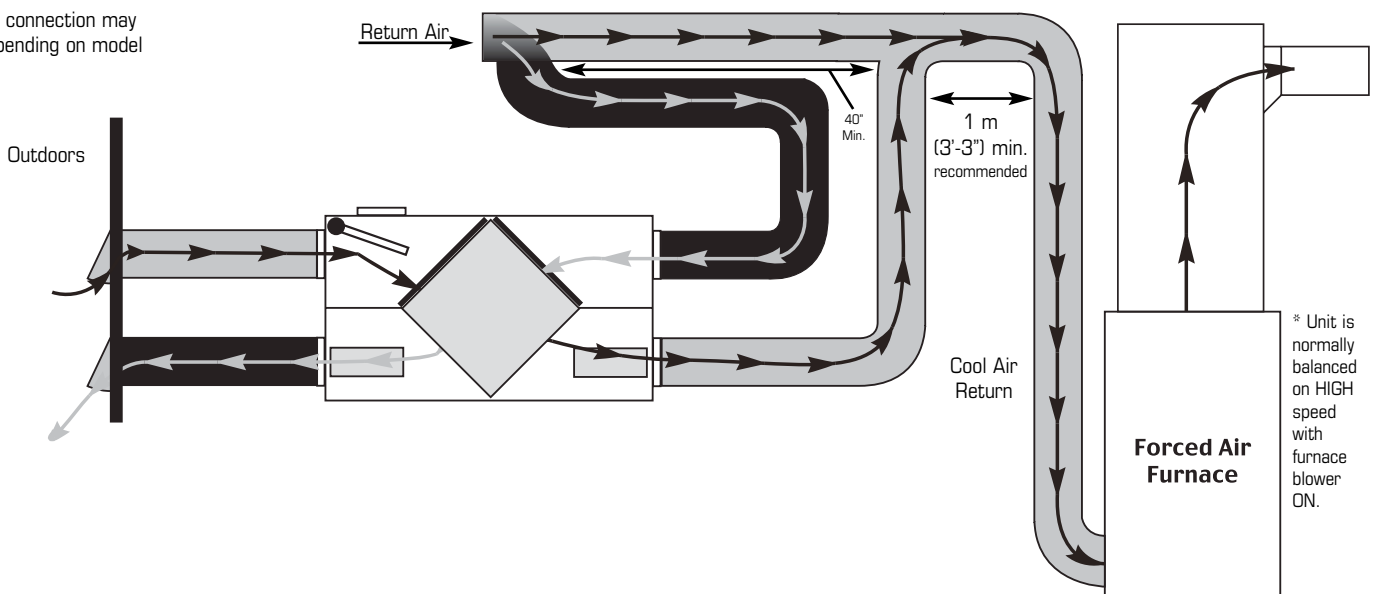
NOTES:

1. Furnace blower is required to run when HRV/ERV is operating. The furnace should be set to run continuously or interlocked with HRV/ERV.
2. A minimum separation of 39 inches (1m) is recommended between the two direct connections.
3. The exhaust air connection should be upstream of the supply air connection to prevent exhausting any fresh air.
4. Weatherhood arrangement is for drawing purposes only. 18" (460 mm) above grade minimum.
5. Due to the differences in pressure between the HRV/ERV and the equipment it is being connected to, the HRV/ERV's airflow should be confirmed on site, using the balancing procedure found in the installation manual.



Note: Option 1 is the preferred/recommended method when doing a simplified installation

* Ducts connection may vary depending on model



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

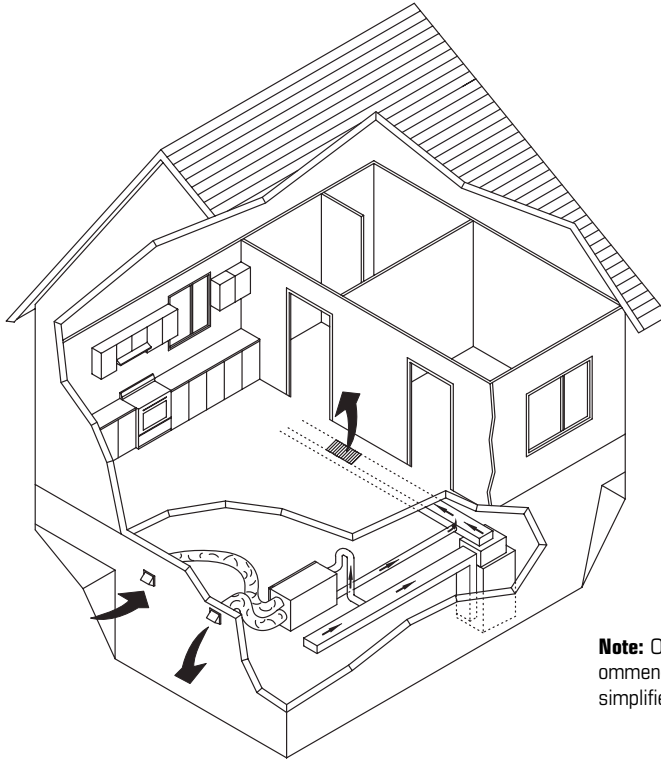
Simplified Installation

Option 2 (Supply/Return Method)

- Check local codes /authority having jurisdiction for acceptance

NOTES:

1. Furnace blower may be required to operate when ventilation from HRV/ERV is required.
2. The exhaust air connection should be upstream of the supply air connection to prevent exhausting any fresh air.
3. Weatherhood arrangement is for drawing purposes only. Eighteen inches (460 mm) above grade minimum.
4. Due to the differences in pressure between the HRV/ERV and the equipment it is being connected to, the HRV/ERV's airflow should be confirmed on site, using the balancing procedure found in the installation manual.

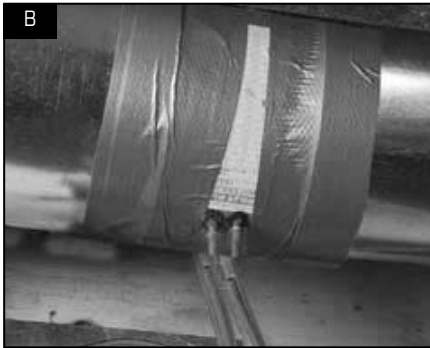


Note: Option 1 is the preferred/recommended method when doing a simplified installation

AIR FLOW BALANCING

* Fantech's superior design and use of EBM motors results in a steep fan curve that usually does not require balancing. Commissioning the system after installation is recommended which include confirming the proper operation of the system and how it interacts with other components within the home.

AIRFLOW STATION (GRID) METHOD



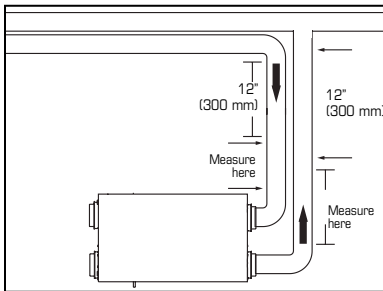
1 For this flow measuring station, cut the duct and place the flow measuring station between each section of duct. Make sure that the flow measuring station's air direction arrow points in the direction of the airflow. Secure the flow measuring station with duct tape.



2 Before taking the reading, make sure that the magnehelic gauge is level and at 0. 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 12" (300 mm) from the unit or elbow and before any transition.

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 trouble-free 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.

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 (SH704 & VH704 ONLY)

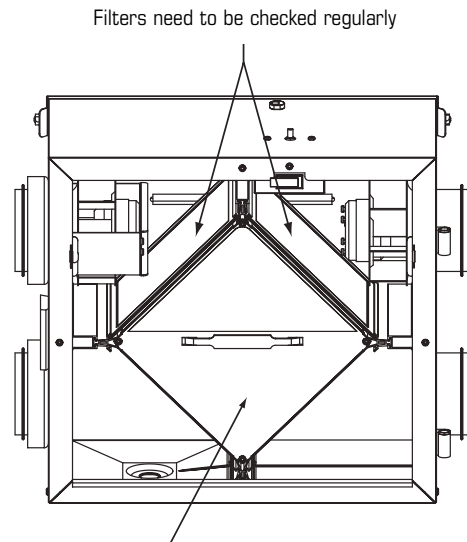
The heat recovery core needs to be checked and cleaned every six months. The core can be cleaned using a mild soap and water. Rinse thoroughly. Handle with care. Hot water and a strong detergent will damage the heat recovery core.

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

Clean Core and Filters Every 3-6 Months.

Unplug unit before doing any repairs or maintenance

- Open access door.
- Carefully grip handle of core and pull out. Core will slide out of the channel.
- Once removed from the cabinet remove filters.
- Wash core in warm soapy water (do not use dishwasher).



- Install clean core by:
 - First mounting the bottom flange of the core guide into the bottom channel approximately 1/4" (6mm).
 - 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).
 - 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.
- Install the clean filters.

ENERGY RECOVERY CORE (SE704)

The energy recovery core needs to be checked and cleaned every six months.

DO NOT wash this core, instead use a vacuum to lightly draw dirt away from the core.

Clean Core and Filters Every 3-6 Months.

Unplug unit before doing any repairs or maintenance

- Open access door.
- Carefully grip handle of core and pull out. Core will slide out of the channel.
- Once removed from the cabinet remove filters.
- Vacuum core to slightly remove dirt away.

- Install clean core by:
 - First mounting the bottom flange of the core guide into the bottom channel approximately 1/4" (6mm).
 - 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).
 - 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.
- Install the clean filters.

