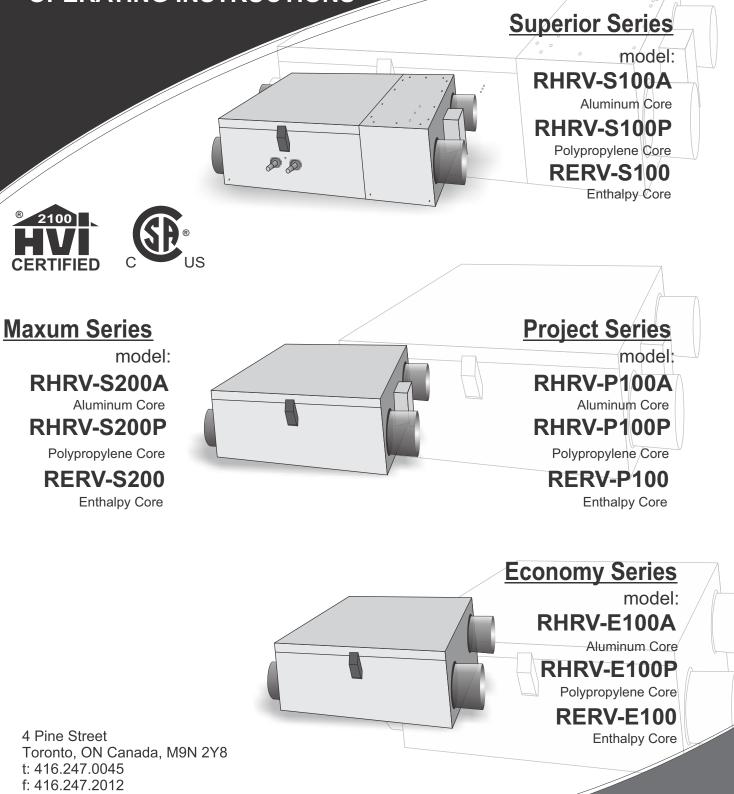


HRV / ERV INSTALLATION AND OPERATING INSTRUCTIONS



IMPORTANT SAFETY INSTRUCTIONS READ AND SAVE THESE INSTRUCTIONS

\triangle warning \triangle

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY, OBSERVE THE FOLLOWING:

- 1. Read all the instructions carefully before installation, operation or maintenance of the unit. Failure to comply with instructions could result in personal injury and/or property damage.
- 2. Installation of the unit and the corresponding electrical wiring must be done by a qualified person and be in accordance with all municipal and national electrical codes and pertinent industry standards should be verified before installation.
- 3. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- Moving Parts, Disconnect Power supply before opening. ensure that all the nuts and screws are securely fastened before restarting the unit.
- 5. Before servicing or cleaning the unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- 6. When cutting or drilling into wall or ceiling, make sure that you do not damage electrical wiring and other hidden utilities.
- 7. To reduce the risk of fire, use only metal ductwork. Do not use any accessories not recommended by the manufacturer.
- 8. When performing installation, servicing or cleaning these unit, it is suggested to wear safety glasses and gloves.
- 9. Do not use this unit for commercial purpose.
- 10. For residential use only. The unit must be grounded.
- 11. Do not install in a cooking area.
- 12. This unit is not designed to exhaust combustion and/or dilution air for fuel burning appliances.

\triangle CAUTION \triangle

- 1. Turn the unit OFF during construction or repair to avoid filter blockage.
- 2. Exhaust air outside Do not intake / exhaust air into spaces within walls, crawl spaces, garage, or into attics.
- 3. Unit has to be installed in accordance to National and Local Building Code.
- 4. When leaving house for a long period of time (more than two weeks), a responsible person should check if unit operates adequately.

PACKAGING INSPECTION

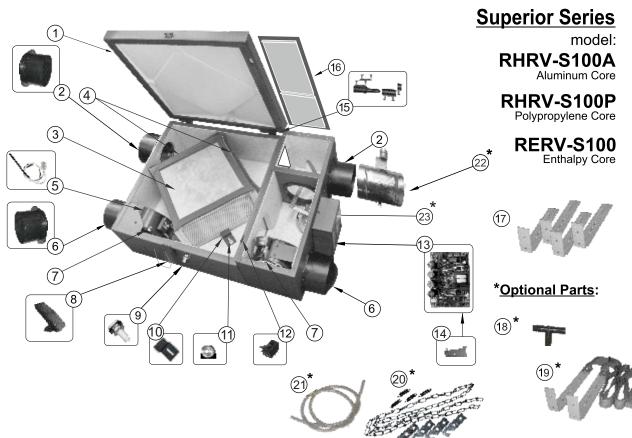
Open the box and check to make sure all the parts and accessories are present and in good condition. If you find any parts missing or any shipping damage please contact factory or our distributor immediately.

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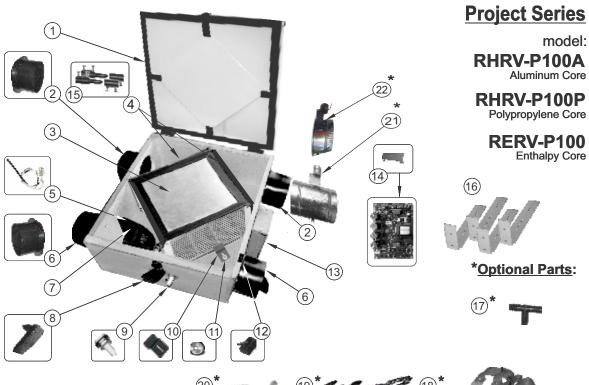
Superior Series
(RHRV-S100A, RHRV-S100P, RERV-S100) 1 • Project Series
(RHRV-P100A, RHRV-P100P, RERV-P100) 2
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- Alternate Furnace Interlock Wiring
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Deference	Description	Dout no	RHRV-S100A	RHRV-S100P	RERV-S100
Reference	Description	Part no.	QTY.	QTY.	QTY.
1	HRV / ERV - Lid, Pan Assembly	9315	1	1	1
2	Polypropylene Collar 5" Dia.	014043C	2	2	2
	Aluminum Core	9312	1	n/a	n/a
3	Polypropylene Core	9313	n/a	1	n/a
	Enthalpy Core	9314	n/a	n/a	1
4	Filter 7" x 12" (MERV - 4)	9358	2	2	2
5	Temperature Sensor	9326	1	1	1
6	5"ø Polypropylene Backdraft Damper	014043	2	2	2
7	Blower - Exhaust / Supply	9317	1	1	1
8	Adjustable Door Latch	9319	1	1	1
9	Drain Spout Assembly	9320	1	1	1
10	Core Locking Bracket	9321	1	1	1
11	Nut	014016	1	1	1
12	Safety Switch	9322	1	1	1
13	Main Control Board - Superior & Project	9356	1	1	1
14	Main Control Board Bracket	9355	2	2	2
15	Door Hinges	9328	1 Set	1 Set	1Set
16	Extension Box Cover	9329	1	1	1
17	Mounting Brackets	011135	4	4	4
18*	" T " Connector	9330	1	1	1
19*	Webbing/Brackets/Ladder Locks	9332	2 Sets	2 Sets	2 Sets
20*	Chains/Springs/Brackets	9354	1 Set	1 Set	1 Set
21*	Drain Pipe	9331	1	1	1
22*	120V Motorized spring return damper	9362	1	1	1
23*	Built-in spring return damper	9389	1	1	1



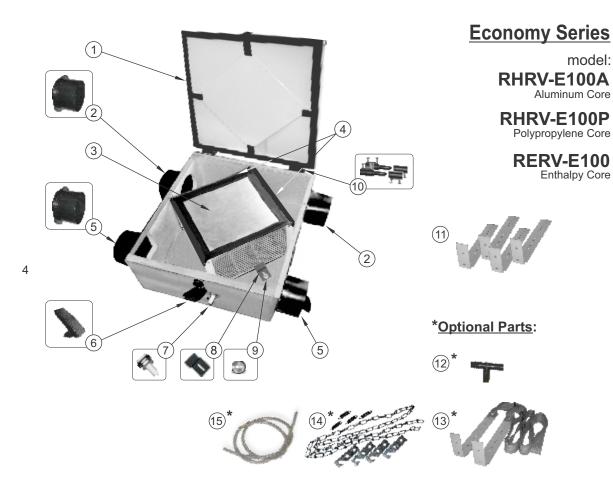


(19)*	18*	788

Reference Description		Douting	RHRV-P100A	RHRV-P100P	RERV-P100
Reference	Description	Part no.	QTY.	QTY.	QTY.
1	HRV / ERV - Lid, Pan Assembly	9315	1	1	1
2	Polypropylene Collar 5" Dia.	014043C	2	2	2
	Aluminum Core	9312	1	n/a	n/a
3	Polypropylene Core	9313	n/a	1	n/a
	Enthalpy Core	9314	n/a	n/a	1
4	Filter 7" x 12" (MERV - 4)	9358	2	2	2
5	Temperature Sensor	9326	1	1	1
6	5"ø Polypropylene Backdraft Damper	014043	2	2	2
7	Blower - Supply	9317	1	1	1
8	Adjustable Door Latch	9319	1	1	1
9	Drain Spout Assembly	9320	2	2	2
10	Core Locking Bracket	9321	1	1	1
11	Nut	014016	1	1	1
12	Safety Switch	9322	1	1	1
13	Main Control Board - Superior & Project	9356	1	1	1
14	Main Control Board Bracket	9355	2	2	2
15	Door Hinges	9328	1 Set	1 Set	1 Set
16	Mounting Brackets	011136	4	4	4
17*	" T " Connector	9330	1	1	1
18*	Webbing/Brackets/Ladder Locks	9332	2 Sets	2 Sets	2 Sets
19*	Chains/Springs/Brackets	9354	1 Set	1 Set	1 Set
20*	Drain Pipe	9331	1	1	1
21*	120V Motorized spring return damper	9362	1	1	1
22*	Built-in spring return damper	9363	1	1	1

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Deference	Description	Deutine	RHRV-E100A	RHRV-E100P	RERV-E100
Reference	Description	Part no.	QTY.	QTY.	QTY.
1	HRV / ERV - Lid, Pan Assembly	9315	1	1	1
2	Polypropylene Collar 5" Dia.	014043C	2	2	2
	Aluminum Core	9312	1	n/a	n/a
3	Polypropylene Core	9313	n/a	1	n/a
	Enthalpy Core	9314	n/a	n/a	1
4	Filter 7* x 12* (MERV - 4)	9358	2	2	2
5	5"ø Polypropylene Backdraft Damper	014043	2	2	2
6	Adjustable Door Latch	9319	1	1	1
7	Drain Spout Assembly	9320	2	2	2
8	Core Locking Bracket	9321	1	1	1
9	Nut	014016	1	1	1
10	Door Hinges	9328	1 Set	1 Set	1 Set
11	Mounting Brackets	011135	4	4	4
12*	" T " Connector	9330	1	1	1
13*	Webbing/Brackets/Ladder Locks	9332	2 Sets	2 Sets	2 Sets
14*	Chains/Springs/Brackets	9354	1 Set	1 Set	1 Set
15*	Drain Pipe	9331	1	1	1

(22)-

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4

6

2

(8)



Maxum Series

model:

RHRV-S200A

Aluminum Core

RHRV-S200P

Polypropylene Core

RERV-S200

Enthalpy Core



-21

(13)

(14)

*Optional Parts:





		¢. 4 3			
Reference	Description	Dentine	RHRV-P100A	RHRV-P100P	RERV-P100
Reference	Description	Part no.	QTY.	QTY.	QTY.
1	HRV / ERV - Lid, Pan Assembly	9391	1	1	1
2	Polypropylene Collar 6" Dia.	PBD6C	2	2	2
	Aluminum Core	9392	1	n/a	n/a
3	Polypropylene Core	9393	n/a	1	n/a
	Enthalpy Core	9394	n/a	n/a	1
4	Filter 10 1/2" x 12" (MERV - 4)	9395	2	2	2
5	Temperature Sensor	9326	1	1	1
6	6"ø Polypropylene Backdraft Damper	PBD6	2	2	2
7	Blower - Supply	013070	1	1	1
8	Adjustable Door Latch	9319	1	1	1
9	Drain Spout Assembly	9320	2	2	2
10	Core Locking Bracket	9321	1	1	1
11	Nut	014016	1	1	1
12	Safety Switch	9322	1	1	1
13	Main Control Board - Superior & Project	9356	1	1	1
14	Main Control Board Bracket	9355	2	2	2
15	Door Hinges	9328	1 Set	1 Set	1 Set
16	Mounting Brackets	011136	4	4	4
17*	"T " Connector	9330	1	1	1
18*	Webbing/Brackets/Ladder Locks	9332	2 Sets	2 Sets	2 Sets
19*	Chains/Springs/Brackets	9354	1 Set	1 Set	1 Set
20*	Drain Pipe	9331	1	1	1
21*	120V Motorized spring return damper 6"ø	9397	1	1	1
22*	Motorized damper spring return built-in 6"ø	9398	1	1	1

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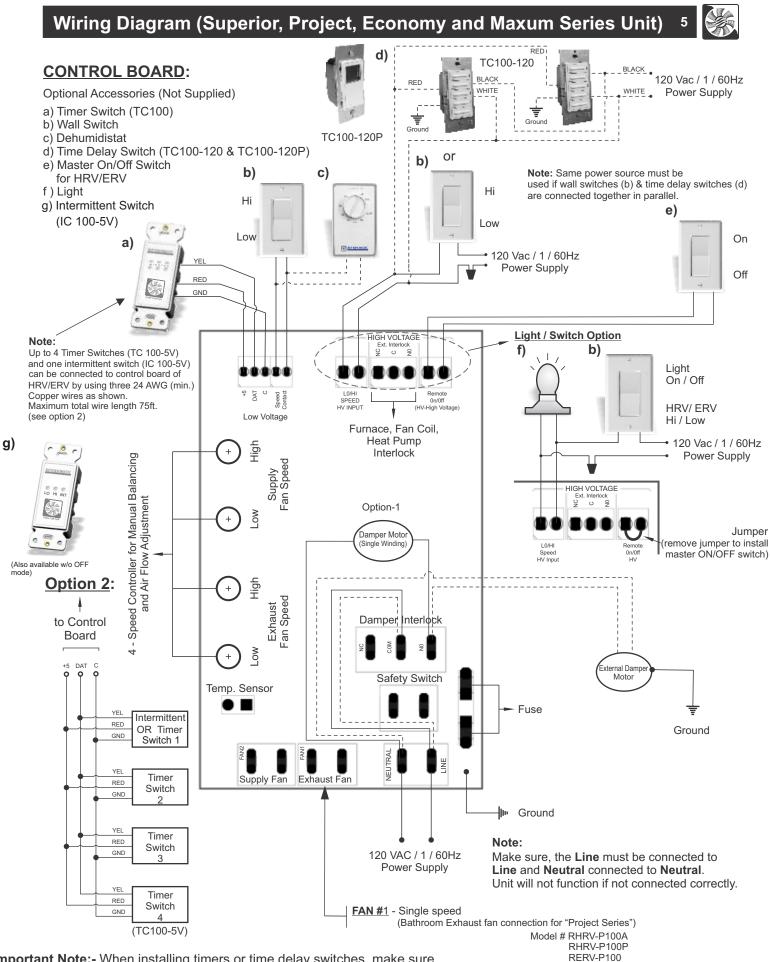
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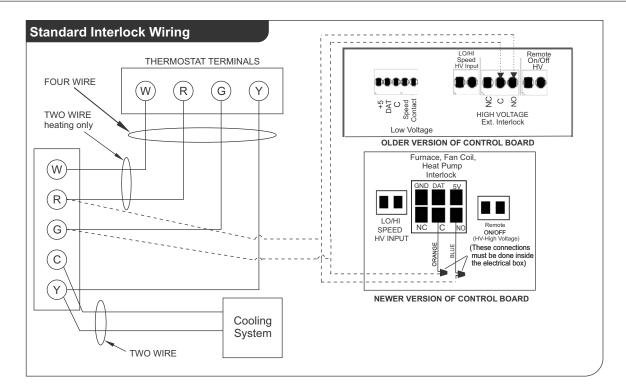


Important Note:- When installing timers or time delay switches, make sure that they are for appropriate HRV/ERV models.

Furnace / Fan-Coil / Heat Pump Interlock:

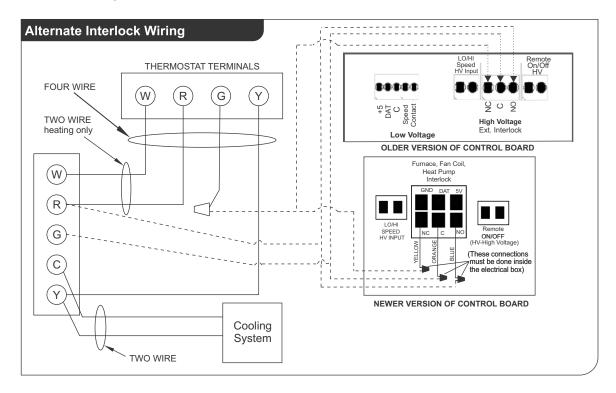
<u>//</u> W A R N I N G //

Never connect a 120 volt AC circuit to the terminals of the furnace/fan-coil/heat pump interlock (Standard Wiring). Only use the low voltage class 2 circuit.



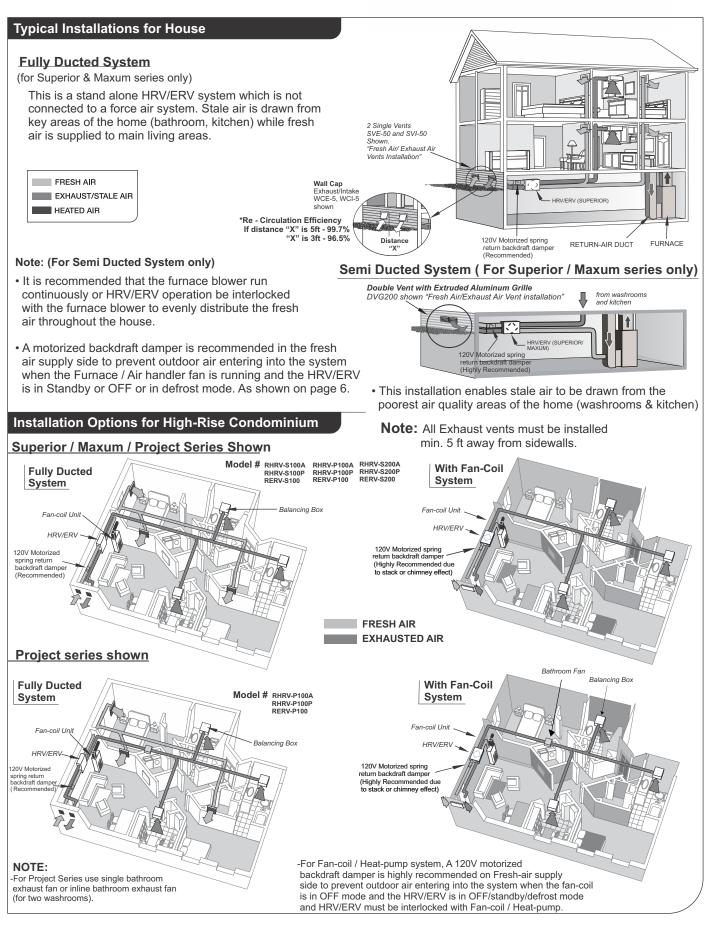
For a furnace connected to a cooling system:

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 Interlock Wiring".



HRV and ERV Typical Installations



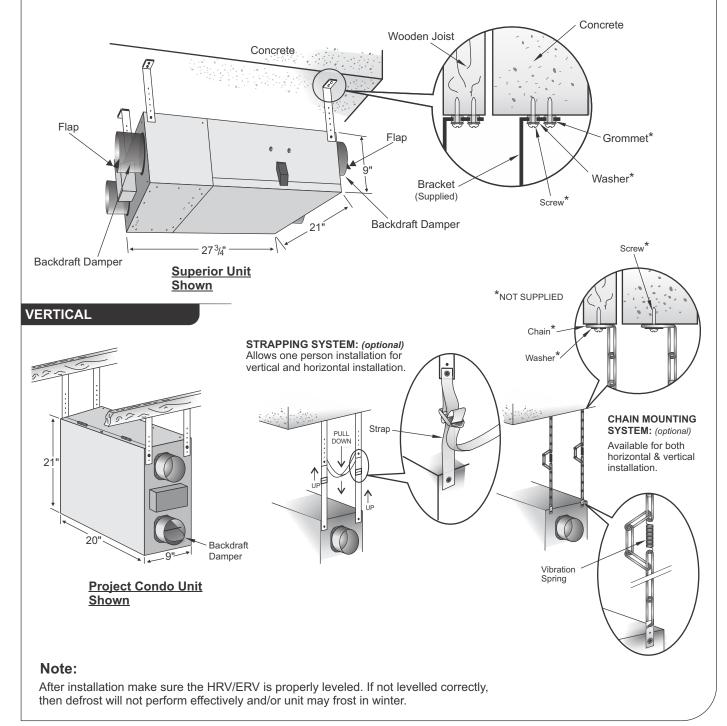




HORIZONTAL

Note:

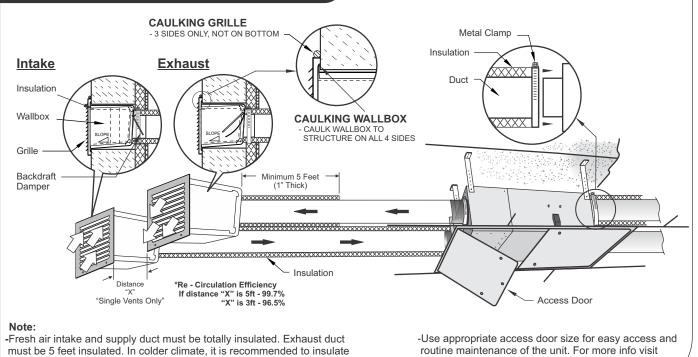
- · 30" clearance is recommended for cleaning of the core/servicing the unit.
- Dampers are installed for horizontal installation. For vertical installation both dampers have to be turned so they can open properly and close when there is any backdraft.
- Make sure no screw will interfere the function of the backdraft damper flaps while installing the duct work to the HRV/ERV.





http://www.reversomatic.com/HRV&ERV/Accessories

Typical Installations of Single Vents & Access door



Drain Connection

all exhaust and supply ducts.

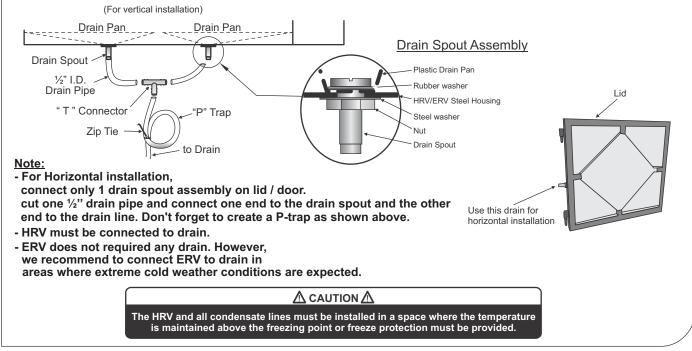
When the outside temperature drops below -5°C, the Reversomatic HRV / ERV Supply Fan cycles ON / OFF depend on the outside temperature. The exhaust fan always operates normally at all times regardless of the outside air temperature.

During defrost cycle the HRV unit may produce some condensation and the water should flow into a nearby drain.

The HRV cabinet has pre-punched holes for the drain, in order to keep the drain pan intact *hand tighten* the 2 plastic drain tube to the unit using the gasket and nuts.

For Vertical installation

Cut two sections of ½" drain pipe and connect the other ends to the drain tube then connect to " T " connector. Connect a drain line and create a **P-trap** to prevent the unit from unpleasant odours from drain source. Tape or fasten base to avoid any bends.



Air Flow Balancing



Balancing Procedure

It is required to have balanced air flows in an HRV/ERV. The volume of air brought in from the outside must equal the volume of air exhausted by the unit while running at normal speed. If the air flows are not properly balanced, then:

- The HRV/ERV may not function at its maximum efficiency
- · A negative or positive air pressure may occur in the house or condo
- The unit may not defrost properly

Prior to balancing, ensure that:

- 1. All the HRV/ERV's components are in place and functioning properly.
- 2. All sealing of the ductwork system has been completed.
- 3. Set the unit to normal speed.
- 4. Air flows in branch to specific areas of the house should be adjusted first prior to balancing the unit.
- 5. After taking reading of both the stale air to the HRV/ERV duct and fresh air to the house duct, the duct with the lowerCFM reading should be left alone while the duct with the higher airflow should be slower down to match the lower
- reading by adjusting dial/speed controller on control board(see board layout on page-4). Return unit to appropriate fan speed for normal operation.

Pitot Tube Airflow Balancing

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 normal speed.

The first step is to operate all mechanical systems on most desire speed, which have an influence on the ventilation system, i.e.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 balancing 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 capable of reading from 0 to 0.25 in. (0-62 Pa) or other digital airflow meter. The tube coming out of the top of the pitot is connected to the high pressure side of the gauge/meter and the tube coming out of the side of the pitot is connected to the low pressure or reference side of the gauge/meter.

Pitot Low Pressure Tap Nagnehelic gauge

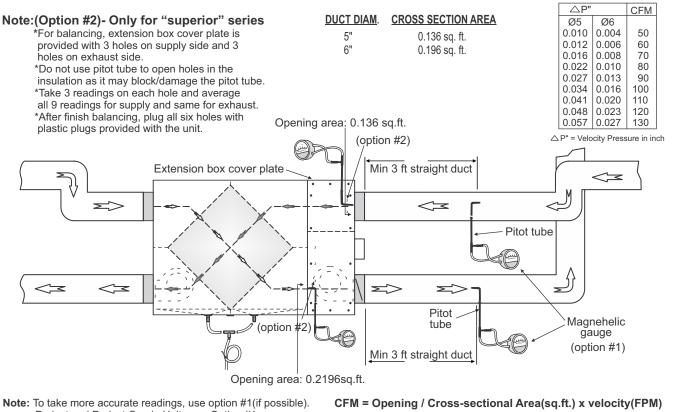
Pitot tube and gauge

NOTE:

Place the magnehelic gauge on a level surface and adjust it to zero.

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 duct. Determine which duct has the highest airflow (highest reading on the gauge). Then slower down that motor speed by adjusting dial/speed controller on control board to match the lower reading from the other duct. The flows should now be balanced. Actual airflow can be determined from the gauge/metre reading. The value read on the gauge is called the velocity pressure and on the flow meter is called air velocity(FPM). 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 metres per second. To determine the actual airflow, the velocity is multiplied by the cross sectional area of the duct being measured.

Air Flow Balancing (cont'd)



Project and Project Condo Units use Option #1 The accuracy of the flow 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 with the Pitot tube.

Air Flow (CFM) Chart for Different Knob Position

|--|

SI		RERV - S100 AND RHR			-
		KNOB POSITION			ON 🏷
S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM
0"	55	0"	85	0"	103
0.05"	52	0.05"	83	0.05"	101
0.10"	48	0.10"	82	0.10"	99
0.15"	45	0.15"	78	0.15"	95
0.20"	42	0.20"	76	0.20"	93
0.25"	40	0.25"	74	0.25"	91
		0.30"	71	0.30"	89
		0.35"	69	0.35"	87
		0.40"	66	0.40"	85
		0.45"	63	0.45"	83
		0.50"	60	0.50"	82
KNOB POSITI	ON 🕭	KNOB POSITION 🔗		KNOB POSITION 👄	
S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM
0"	122	0"	129	0"	134
0.05"	120	0.05"	128	0.05"	133
0.10"	119	0.10"	126	0.10"	132
0.15"	116	0.15"	125	0.15"	130
0.20"	114	0.20"	123	0.20"	129
0.25"	112	0.25"	122	0.25"	127
0.30"	110	0.30"	119	0.30"	125
0.35"	107	0.35"	116	0.35"	123
0.40"	104	0.40"	114	0.40"	120
0.45"	103	0.45"	112	0.45"	117
0.50"	101	0.50"	111	0.50"	115
		0.55"	109	0.55"	111
		0.60'	107	0.60'	109
		0.65"	106	0.65"	107
		0.70"	104		A A
		0.75"	102		



11

Air Flow (CFM) Chart for Different Knob Position (cont'd)



		EXHAUST (LOW SP	<u>PEED / HI</u> GH	SPEED) 190 mm VEI	NTURIES		
KNOB POSITION 🔎		KNOB POSITI	on ∢⊖	KNOB POSITIO	ON 🏷	KNOB POSITION	
S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFN
0"	54	0''	82	0''	104	0''	110
0.05"	50	0.05"	81	0.05"	102	0.05"	112
0.10"	47	0.10"	78	0.10"	99	0.10"	11:
0.15"	42	0.15"	76	0.15"	95	0.15"	10
0.20"	40	0.20"	74	0.20"	91	0.20"	10
0.25"	38	0.25"	71	0.25"	90	0.25"	10
		0.30"	70	0.30"	89	0.30"	10
		0.35"	69	0.35"	87	0.35"	99
		0.40''	66	0.40"	86	0.40"	97
		0.45"	63	0.45"	85	0.45"	95
		0.50"	60	0.50"	83	0.50"	93
				0.55"	81	0.55"	92
				0.60"	78	0.60"	91
				0.65"	76	0.65"	90
				0.70"	74	0.70"	87
KNOB POSITION 🦪		KNOB POSITION O					
S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM	S.P. (IN. W.G.)	CFM		۹ <u>۲</u>
0''	125	0''	129	0''	131		, Fig
0.05"	123	0.05"	126	0.05"	127		d e r
0.10"	120	0.10"	123	0.10"	124	Low Hig Supply Fan Speed	n th owr
0.15"	177	0.15"	120	0.15"	122		sh tur
0.20"	116	0.20"	117	0.20"	119		as
0.25"	112	0.25"	114	0.25"	116		uir fl vise
0.30"	111	0.30"	112	0.30"	114		Note: To reduce the air flow turn the Knob counter clockwise as shown in Fig.1
0.35"	107	0.35"	107	0.35"	111	n Spe	e th cloc
0.40"	106	0.40"	104	0.40"	109		duc
0.45"	104	0.45"	102	0.45"	106		rec
0.50"	102	0.50"	101	0.50"	104	(Fig. 1)	P 8
0.55"	101	0.55"	99	0.55"	101		ote:
0.60"	99	0.60'	97	0.60'	99	(Fig. 1) ⊨	N
0.65"	97	0.65"	95	0.65"	97		
0.70"	95						

Note - The following air-flow results are based on rotating the knob into clock-wise direction

Maintenance

Regular Maintenance

- 1. Turn the unit off and disconnect the power supply.
- 2. Unlatch the door and lift the door panel towards you, hold it firmly and slide it to the left.
- 3. Clean the inside of the *door* and *drain pan* with a damp cloth to remove dirt and debris that may be present.
- 4. Clean the *filters:* (twice a year)
 - Remove the filters.
 - Vacuum to remove most of the dust.
 - Wash with a mixture of warm water and mild soap. Rinse thoroughly and shake filters to remove water and let dry.
- 5. Oil defrost damper levers and hinges.
- 6. Check the exterior fresh air supply hood:
 - Make sure there are no leaves, twigs, grass, ice or snow that could be drawn into the vent. *Partial blocking of this air vent could cause the unit to malfunction.*
- 7. Reassemble the components, Filters and Door (The door is secured when you hear a click.)
- 8. Reconnect the power and turn on the unit.

Maintenance (cont'd)

Annual Maintenance

Repeat steps 1 to 5 from the previous section and continue with the following steps:

1. Clean the HRV and ERV core:

- Remove filters
- Loosen the core locking bracket
- Remove the core, carefully grip ends of core and pull evenly outward
- HRV Core > remove dust using vacuum cleaner or
 - rinse with cold water
 - > Soak and rinse the HRV core in warm soapy water
- ERV Core > remove dust using vacuum cleaner



- Do not use cleaning solution for the HRV/ERV core
 Do not use pressure washer on the HRV/ERV core
 Do not place the HRV/ERV core in dishwasher
 Do not use bleach or chlorine
- 2. Motors Maintenance Free, permanently lubricated
- 3. Drain Tube and Drain Pipe Inspect drain tube, drain pipe and "P" trap for blockage, mold or kinks. Flush with warm soapy water and replace if worn, bent or unable to clean.
- 4. Clean Duct Work if Required Wipe and vacuum the duct once every year. The duct work running to and from HRV/ERV may accumulate dirt. You may wish to contact a heating / ventilation company to do this.
- 5. Cleaning the Fans Fans may accumulate dirt causing an imbalance and/or excessive vibration on the HRV/ERV. A reduction in the air flow may also occur. In new construction this may result within the first year due to heavy dust and may occur periodically after that over time depending on the outdoor conditions.
 - unplug the HRV/ERV
 - open the service door
 remove the core
 - remove the core
 disconnect the fan motor w
 - disconnect the fan motor wires
 remove the screws securing fan assembly
 - pull the fan assembly out of unit
 - check for any accumulation on the blades
 - clean with a small brush if necessary:
 - scrub individual fan blades until clean
 - vacuum and wipe
 - put the components back in place
 - reconnect the power supply and turn the unit back on.



Electrical shock hazard. Can cause injury or death. Before attempting to perform any service or maintenance, always disconnect the unit from its power source.

Troubleshooting

PROBLEMS

POSSIBLE CAUSES

1. Air flow is low	 - HRV/ERV airflow improperly balanced - filter clogged - core obstructed - exterior fresh air supply blocked - damper is closed (if supplied) - ductwork is restricting - power supply low (Low Voltage) 	 have professional balancer or contractor balance the unit remove and clean filter remove and clean core remove and clean the blockage check damper inspect duct installation switch off the unit immediately and call the electrician to check the voltage
2. Senses cold air from Supply	 Exhaust hood outside the building is blocked HRV/ERV airflow improperly balanced outdoor temperature is extremely cold 	 remove the blockage and clean the hood have contractor balance the unit placement of furniture or closed doors is restricting the movement of air in the home install a duct heater
3. Water in the bottom of HRV	- drain pans, drain tube, drain pipe and "P" trap are clogged	 check for blockage and for kinks in line check connections make sure water drains properly

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SOLUTIONS

Troubleshooting (cont'd)



15

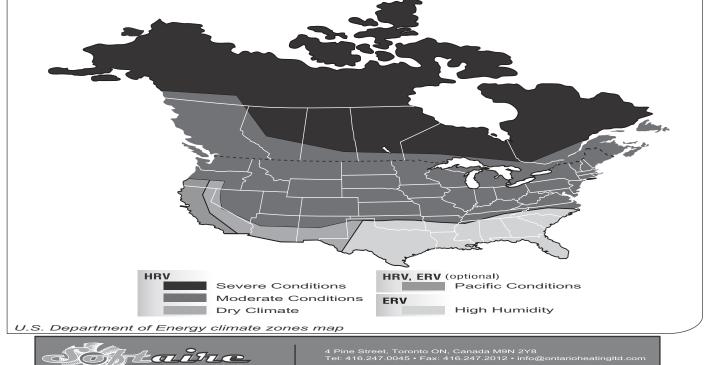
4. Timer switch 20/40/60 minute light doesn't stay on	- loose connection - the switch may be defective - turn off the HRV/ERV bracker	 check connection replace the timer switch reset the main controller
5. Unit is not defrosting properly	 fresh air duct maybe frozen HRV/ERV airflow improperly balanced Temp. sensor maybe defective 	 check and remove the ice have professional balancer or contractor balance the unit replace the Temp. sensor
6. All 3 LEDs of timer switch blinks	 Control board reports error lost communication with main control board 	 refer to problem 4. check all wire connections on timer switch and main control board
7. LED's on the Main Control board and the remote wall mount Timer Switch will flash 0.5 second On then 2 seconds Off then repeat the cycle (1 Blink)	- Exhaust fan open circuit: a) motor burned b) fan overheated	- replace motor - call technician (if possible replace fan)
8. LED's on the Main Control board and the remote wall mount Timer Switch will flash 0.5 sec On/0.5 sec Off/0.5 sec On then 2 sec Off, then repeat the cycle (2 Blinks)	- damper obstructed - exhaust fan jam / over-current	 check backdraft damper, no screw must interfere the function of the damper replace the fan
9. LED's on the Main Control board and the remote wall mount Timer Switch will flash 0.5 sec On/0.5 sec Off/0.5 sec On/0.5 sec Off/ 0.5 sec On, then 2 seconds Off, then repeat the cycle (3 Blinks)	- Supply fan open circuit: a) motor burned b) fan overheated	- replace motor - call technician (if possible replace fan)
 LED's on the Main Control board and the remote wall mount Timer Switch will flash 0.5 sec On/0.5 sec Off/0.5 sec On/0.5 sec Off/ 0.5 sec On/0.5 sec Off/0.5 sec On then 2 seconds Off, then repeat the cycle (4 Blinks) 	- damper obstructed - Supply Fan jam / over-current	 check back-draft damper, no screw must interfere the function of the damper replace the fan
 LED's on the Main Control board and the remote wall mount Timer Switch will flash: 0.5 sec On/0.5 sec Off/ 0.5 sec On/0.	- temperature sensor failure (both motors shuts off)	- replace temperature sensor

Climate Zone

Select HRV/ERV for your Climate Zone

HRVs are recommended for colder climates.

ERVs are designed for warm-humid climates with long <u>c</u>ooling seasons.



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