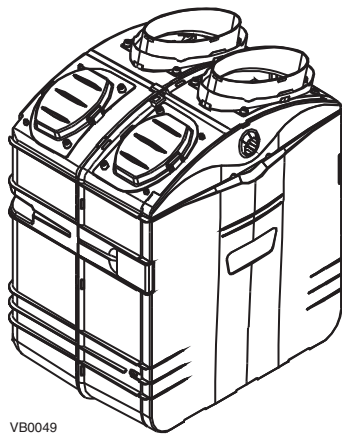
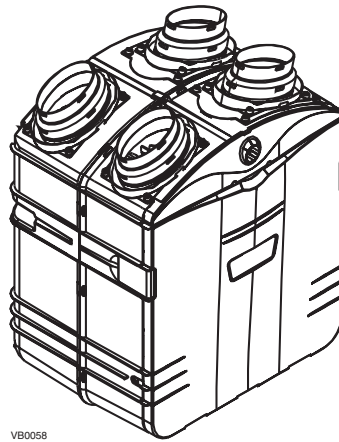


INSTALLATION INSTRUCTIONS AND USER MANUAL

MODELS HEPA 3.2* and THH 1.0*



VB0049



VB0058

*Patents pending

NOTE : HEPA 3.2 model available in Canada only.

RESIDENTIAL USE ONLY

READ AND SAVE THESE INSTRUCTIONS

INSTALLER : LEAVE THIS MANUAL WITH CONSUMER.
HOMEOWNER : USE AND CARE INFORMATION
ON PAGES 24 to 31.



7 72371 07847 5

ABOUT THIS MANUAL

First, we want to congratulate you on your purchase of this excellent unit which will allow you and your family to enjoy clean and healthy air throughout your home for years to come!

The illustrations in this publication are typical ones. Some details of your unit may be slightly different than the ones shown.

Please take note that this manual uses the following symbols to emphasize particular information :

WARNING

Identifies an instruction which, if not followed, might cause serious personal injuries including possibility of death.

CAUTION

Denotes an instruction which, if not followed, may severely damage the unit and/or its components.

NOTE: Indicates supplementary information needed to fully complete an instruction.

We welcome any suggestions you may have concerning this manual and/or the unit, and we would appreciate hearing your comments on ways to better serve you. Please contact us at the address listed in the warranty text, at the end of this manual.

ABOUT THESE UNITS

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSON(S) OBSERVE THE FOLLOWING :

1. This unit is intended for residential installation only.
2. Installation must be done in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
3. This unit is not designed to provide combustion and/or dilution air for fuel-burning appliances.
4. Do not install in a cooking area or connect directly to an appliance.
5. Before replacing filters, servicing or cleaning unit, disconnect the power cord from electrical outlet.
6. When cutting or drilling into wall or ceiling, do not damage electrical wiring or other hidden utilities.
7. Do not use this unit with any solid-state speed control device other than wall controls no. 04862 or no. 05439 (for HEPA 3.2 unit) and no. 04391, no. 05536 , Altitude or Platinum (for THH 1.0 unit) (all control devices sold separately).
8. This unit must be grounded. The power supply cord has a 3-prong grounding plug for your personal safety. It must be plugged into a mating 3-prong grounding receptacle, grounded in accordance with the national electrical code and local codes and ordinances. Do not remove the ground prong. Do not use an extension cord.
9. This unit must be installed in a weatherized location out of direct sunlight and protected from the elements.
10. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in this document.
11. For general filtration and ventilation use only. Do not use to exhaust hazardous or explosive materials and vapors.
12. When performing installation, servicing or cleaning the unit, it is recommended to wear safety glasses and gloves.
13. When applicable local regulations comprises more restrictive installation and/or certification requirements, the aforementioned requirements prevail on those of this document and the installer agrees to conform to these at his own expenses.

CAUTION

1. Intended for residential installation only in accordance with the requirements of NFPA 90B.
2. Do not run any air ducts directly above or closer than 2 ft (0.61 m) to any furnace or its supply plenum, boiler, or other heat producing appliance.
 - 2.1 **For HEPA 3.2 unit only**, if a duct has to be connected to the furnace return plenum, it must be connected not closer than 2 ft (0.61 m) from this plenum connection to the furnace.
 - 2.2 **For THH 1.0 unit only**, if a duct has to be connected to the furnace return plenum, it must be connected not closer than 9'10" (3 m) from this plenum connection to the furnace.
3. The ductwork is intended to be installed in compliance with all applicable codes.
4. To avoid premature clogged filters, turn OFF the unit during construction or renovation.
5. Please read the unit specification label on the product for further information and requirements.

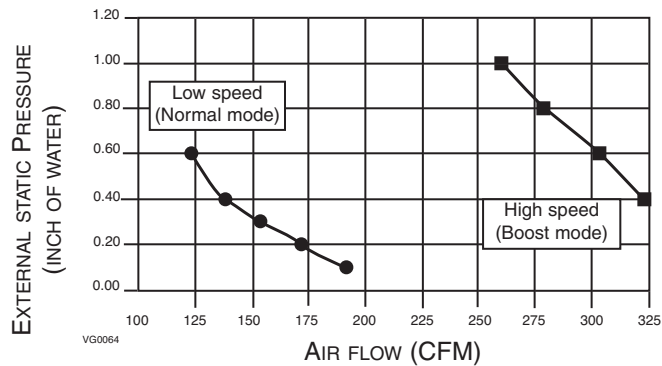
TABLE OF CONTENTS

1.	TECHNICAL DATA	4
1.1	PERFORMANCE CHARTS	4
1.2	SPECIFICATIONS	4
1.3	DIMENSIONS	5
1.4	MOUNTING AND SERVICING CONSIDERATION	5
2.	HEPA 3.2 UNIT INSTALLATION OVERVIEW	6
3.	THH 1.0 UNIT INSTALLATION OVERVIEW	7
4.	UNIT INSTALLATION	8-19
4.1	INSPECT THE CONTENT OF THE BOX	8
4.2	LOCATING AND MOUNTING THE UNIT	8
4.3	MOUNT THE PORTS ON THE UNIT	8
4.4	MOUNT THE NAMEPLATE ON THE UNIT	8
4.5	HOW TO HANG THE UNIT	9-10
4.6	PLANNING OF THE HEPA 3.2 DUCTWORK	11
4.7	CALCULATING THE HEPA 3.2 DUCT SIZE	11
4.8	PLANNING OF THE THH 1.0 DUCTWORK	12
4.9	CALCULATING THE THH 1.0 DUCT SIZE	12
4.10	INSTALLING DUCTWORK AND REGISTERS	13-15
4.11	INSTALLING INSULATED FLEXIBLE DUCT (THH 1.0 UNIT ONLY)	15-17
4.12	INSTALLING DUAL EXTERIOR HOOD (THH 1.0 UNIT ONLY)	17-18
4.13	CONNECTING THE DRAIN (THH 1.0 UNIT ONLY)	19
5.	CONTROLS	19-23
5.1	MAIN SWITCH	19
5.2	OPTIONAL CONTROLS	20
5.3	DIMENSIONS	20
5.4	INSTALLATION OF THE OPTIONAL CONTROL	21-23
5.5	OPERATING THE NO. 04862 OR NO. 05439 CONTROL	24
5.6	OPERATING THE NO. 04391 OR NO. 05536 CONTROL	24
5.7	OPERATING THE ALTITUDE OR PLATINUM CONTROL	24-27
6.	WIRING DIAGRAMS	28
6.1	HEPA 3.2 WIRING DIAGRAM	28
6.2	THH 1.0 WIRING DIAGRAM	28
7.	BALANCING PROCEDURE (THH 1.0 ONLY)	29
7.1	WHAT YOU NEED TO BALANCE THE UNIT	29
7.2	PRELIMINARY STAGES TO BALANCE THE UNIT	29
7.3	INSTALLATION OF FLOW COLLAR	29
7.4	BALANCING PROCEDURE	29
8.	MAINTENANCE	30
8.1	SEMI-ANNUAL MAINTENANCE (ESSENTIAL)	30-31
8.2	ANNUAL MAINTENANCE	31
8.3	MASTER RESET (EXCEPT FOR ALTITUDE OR PLATINUM WALL CONTROL)	31
9.	PARTS ORDERING CHART	31
10.	TROUBLESHOOTING	31-32
11.	WARRANTY	32

1. TECHNICAL DATA

1.1 PERFORMANCE CHARTS

HEPA 3.2 FILTRATION AIR FLOW



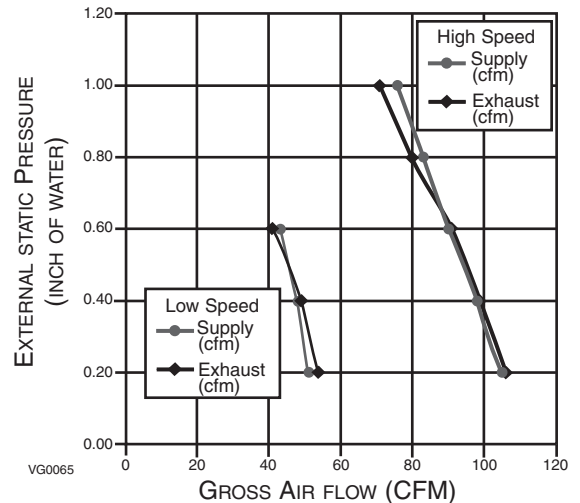
THH 1.0 VENTILATION PERFORMANCE

LOW SPEED

EXT STATIC PRESSURE		NET SUPPLY AIR FLOW			GROSS AIR FLOW SUPPLY			GROSS AIR FLOW EXHAUST		
Pa	in.w.g	l/s	cfm	m³/h	l/s	cfm	m³/h	l/s	cfm	m³/h
50	0.2	23	48	82	24	51	87	26	54	92
100	0.4	21	45	76	23	48	82	23	49	83
150	0.6	19	40	68	20	43	73	19	41	70

HIGH SPEED

EXT STATIC PRESSURE		NET SUPPLY AIR FLOW			GROSS AIR FLOW SUPPLY			GROSS AIR FLOW EXHAUST		
Pa	in.w.g	l/s	cfm	m³/h	l/s	cfm	m³/h	l/s	cfm	m³/h
50	0.2	47	100	170	50	105	178	50	106	180
100	0.4	44	93	158	46	98	165	46	99	167
150	0.6	41	86	146	42	90	155	43	91	155
200	0.8	37	79	134	39	83	141	38	80	136
250	1.0	34	73	124	36	76	129	33	71	121



THH 1.0 ENERGY PERFORMANCE

SUPPLY TEMPERATURE		NET AIR FLOW			POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS
°C	°F	l/s	cfm	m³/h			
HEATING							
0	+32	24	52	87	116	63	85
0	+32	35	74	126	147	59	75
0	+32	44	94	158	189	57	75
-25	-13	16	35	59	114	58	95
COOLING					TOTAL RECOVERY EFFICIENCY		
+35	+95	—	—	—	Not Tested		
+35	+95	—	—	—			

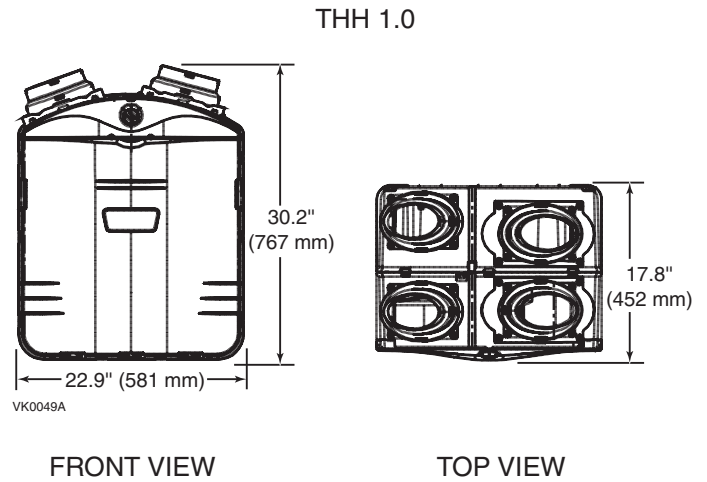
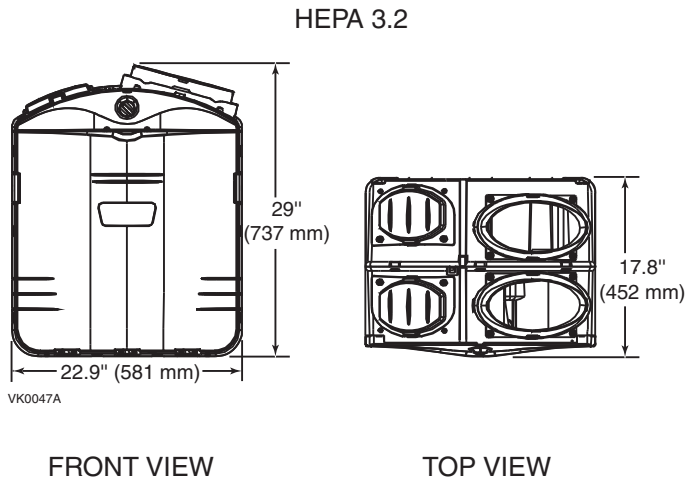
1.2 SPECIFICATIONS

Model	HEPA 3.2	THH 1.0
Weight	34 lb (15.4 kg)	41.2 lb (18.7 kg)
Performance	180 cfm low speed 320 cfm high speed	50 cfm low speed 90 cfm high speed
Oval Ports	fit two 8" round ducts	fit four 5" or 6" round ducts
Installation : Suspension	4 Chains, springs and hooks (included with the unit)	
Electrical Supply	120 Volts AC, 60 Hz	
Power Consumption ("Boost")	170 Watts	192 Watts
Power Consumption ("Normal")	105 Watts	110 Watts

NOTE : All specifications are subjected to change without notice.

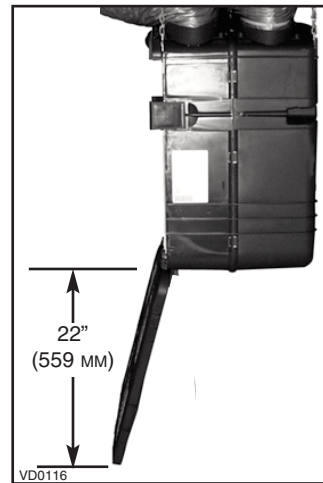
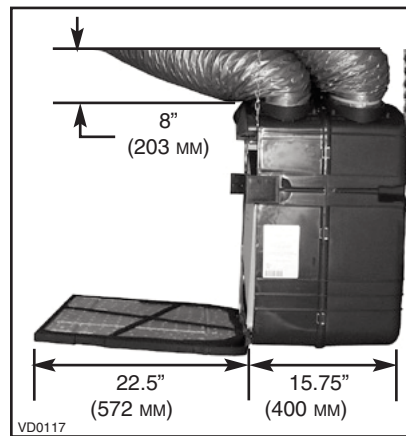
1. TECHNICAL DATA (CONT'D)

1.3 DIMENSIONS



1.4 MOUNTING AND SERVICING CONSIDERATIONS

- The two following pictures are showing the minimum clearance needed to open the door completely.



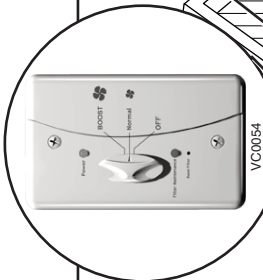
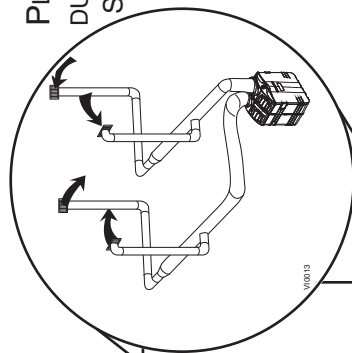
- NOTES :
1. A minimum of 8" (203 mm) clearance from any obstruction on top of the unit is required for the ductwork radius turn.
 2. A grounded three-prong electrical outlet has to be available within 3 feet from the unit.

2. HEPA 3.2 UNIT INSTALLATION OVERVIEW

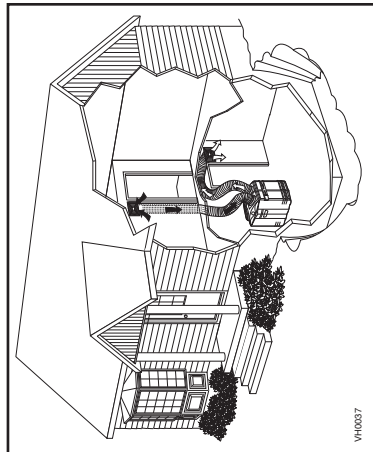
INSTALLATION TYPE SHOWN : CENTRAL DRAW POINT
SEE SECTION 4.10.2

SECTION 5 : CONTROL

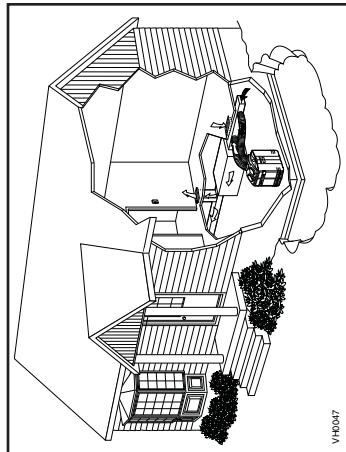
PLANNING OF THE HEPA 3.2
DUCTWORK, DUCT SIZE,
SEE SECTIONS 4.6 AND 4.7



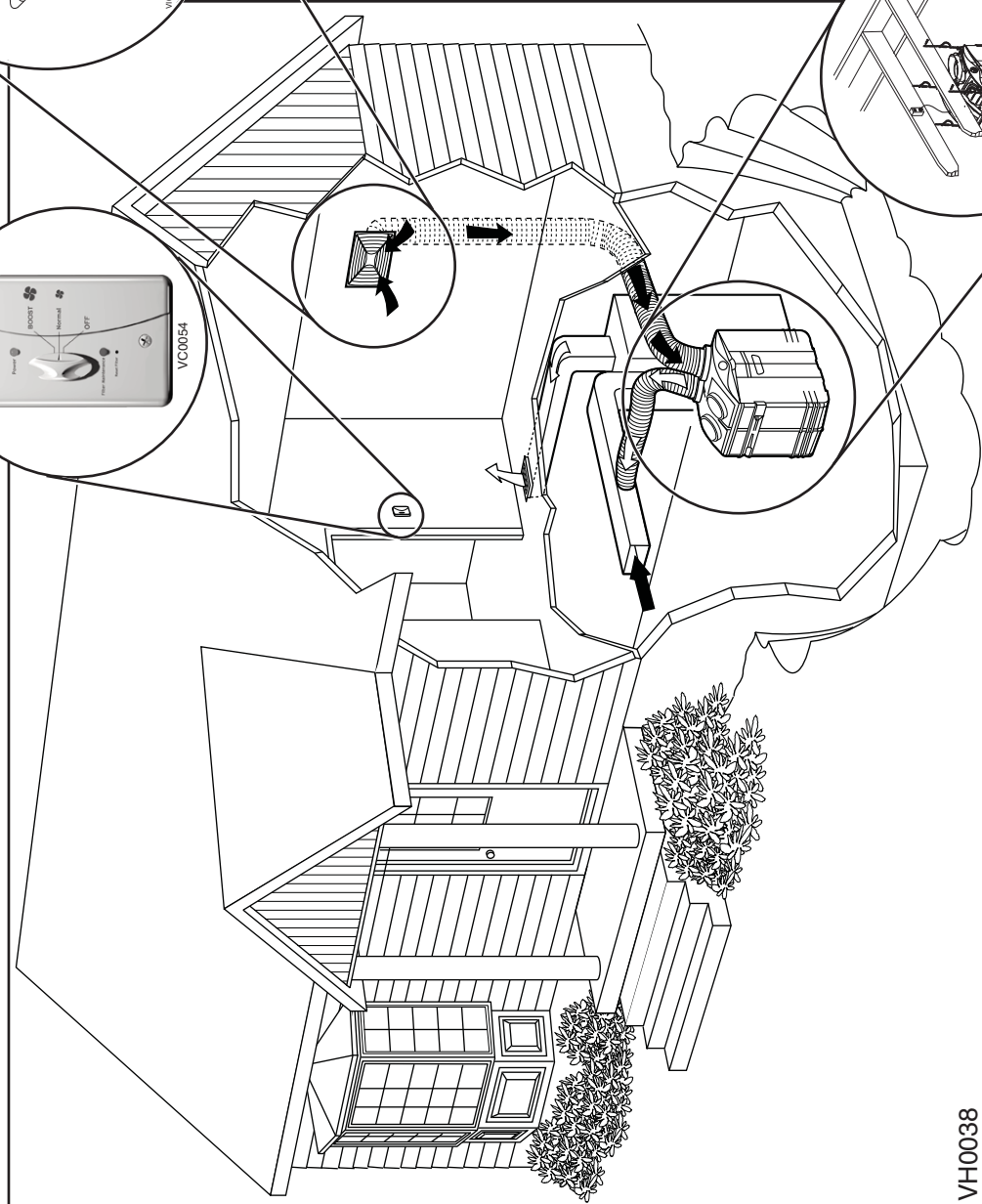
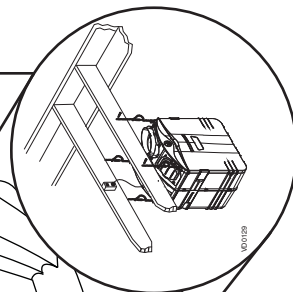
STAND ALONE INSTALLATION
SEE SECTION 4.10.1



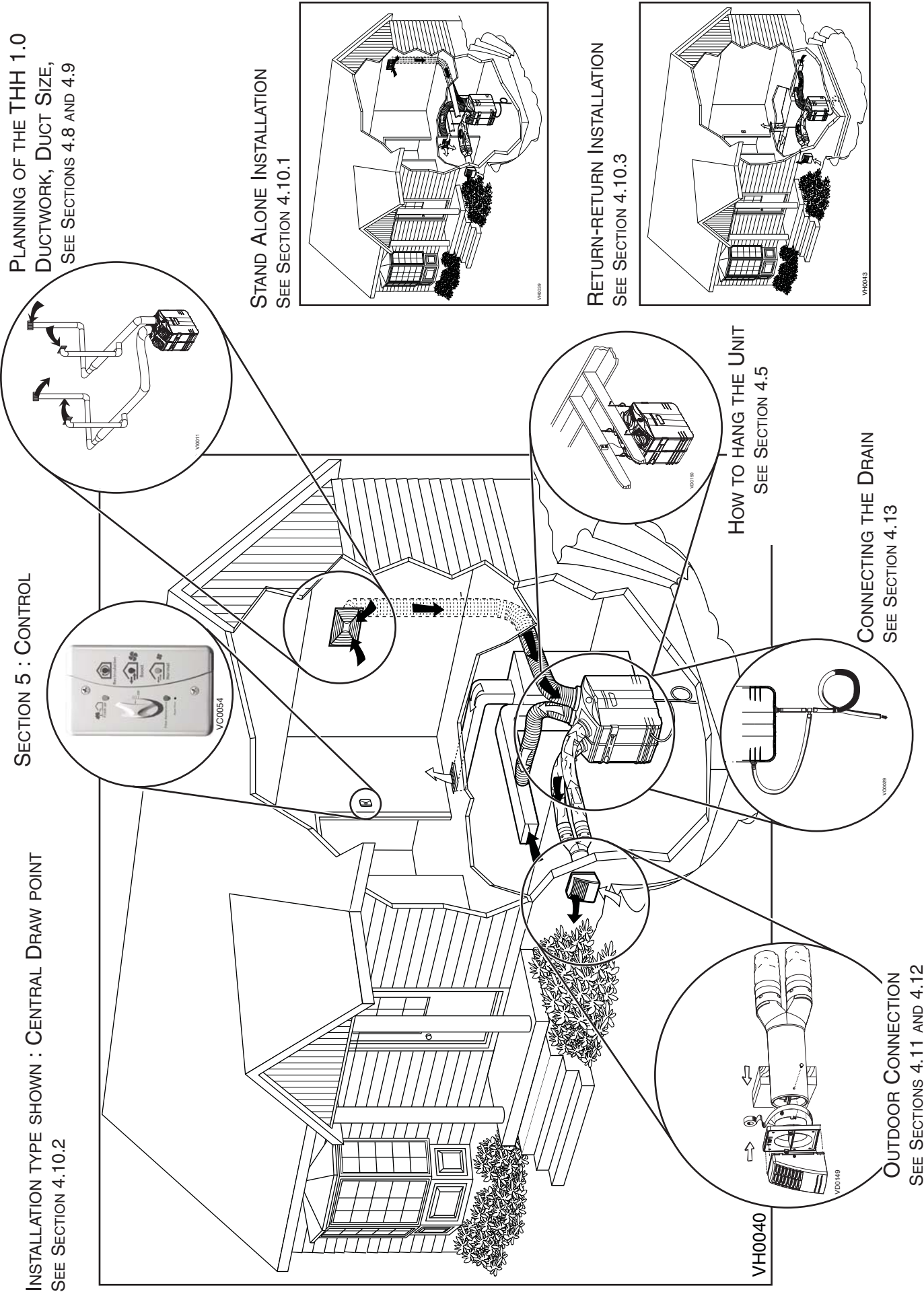
RETURN-RETURN INSTALLATION
SEE SECTION 4.10.3



HOW TO HANG THE UNIT
SEE SECTION 4.5



3. THH 1.0 UNIT INSTALLATION OVERVIEW



4. UNIT INSTALLATION

4.1 INSPECT THE CONTENT OF THE BOX

⚠ WARNING

To avoid risk of suffocation, discard the plastic bag wrapping the unit.

- Inspect the exterior of the unit for shipping damage. Ensure there is no damage to the door, door latches, main switch, etc.

CAUTION

Remove the cardboard strip inside the unit (if applicable).

- Inspect the interior of the unit for damage. Ensure the blower assembly, insulation, prefilter, HEPA filter, heat recovery core (THH 1.0 unit only), etc. are all intact.
- If the unit was damaged during shipping, contact your local distributor.

4.2 LOCATING AND MOUNTING THE UNIT

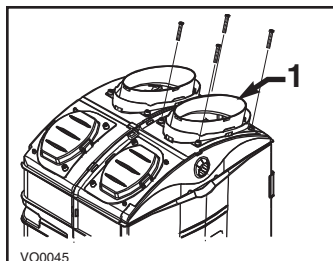
Choose an appropriate location for the unit.

- Within an area of the house where the ambient temperature is between 10°C (50°F) and 30°C (86°F) (basement, furnace room, closet, etc.).
- So as to provide easy access to the interior of the unit, for filter maintenance.
- Away from hot chimneys and other fire hazards.
- Close to an exterior wall, so as to limit the length of the insulated flexible duct to and from the unit (THH unit only).
- Close to a drain. If no drain is close by, use a pail to collect run-off (THH unit only).

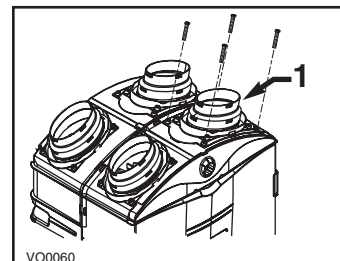
4.3 MOUNT THE PORTS ON THE UNIT

Mount the oval ports on the top of the unit using the screws provided in the hardware box (4 screws no. 8 x 3/4" long per port, 8" oval ports for HEPA 3.2 unit and 5" to 6" oval ports for THH 1.0 unit).

HEPA 3.2



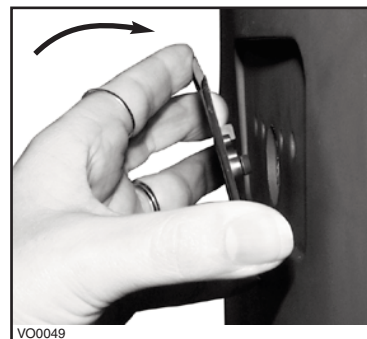
THH 1.0



NOTE : If an optional control has to be installed, do not install the front oval port (1) at this time.

4.4 MOUNT THE NAMEPLATE ON THE UNIT

Select your company nameplate (Venmar or vänEE) and snap it on the unit door. Discard the other nameplate.



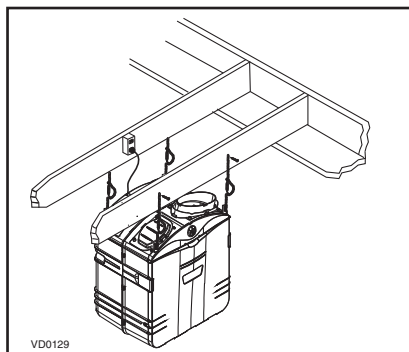
4. UNIT INSTALLATION (CONT'D)

4.5 HOW TO HANG THE UNIT

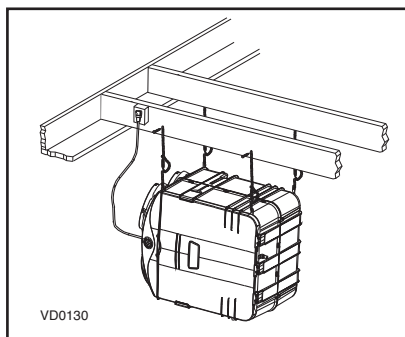
HEPA 3.2 UNIT ONLY

Use the 4 chains and springs in the hardware pack provided with the unit. According to your needs, you can install the unit either in vertical or horizontal position.

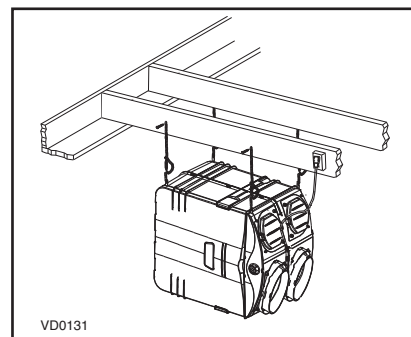
VERTICAL POSITION



HORIZONTAL POSITION (LEFT SIDE)



HORIZONTAL POSITION (RIGHT SIDE)

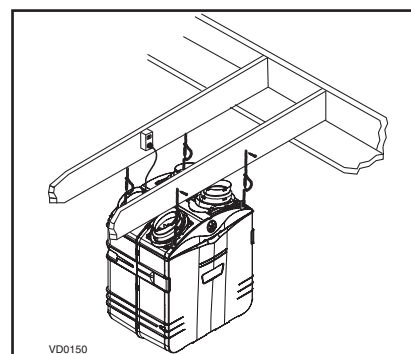


THH 1.0 UNIT ONLY

CAUTION

Always install the unit vertically (with ports on top). Make sure the unit is level.

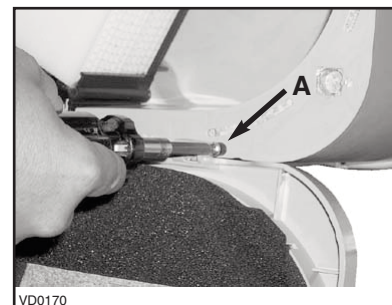
Use the 4 chains and springs in the hardware pack provided with the unit.



ALL UNITS

- Turn the switch knob to OFF position in order to unlock the door. Unlatch the door and open it.

NOTE : If preferred, the door can be removed. First, remove the stopper (A) located on the right side of the door hinge, then, slide the door out of its hinge.



- Using a screwdriver, remove the 2 retaining screws of the front plate and carefully remove the front plate from the unit.



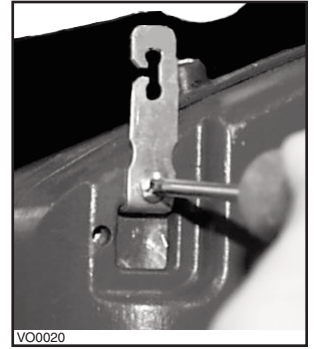
4. UNIT INSTALLATION (CONT'D)

4.5 HOW TO HANG THE UNIT (CONT'D)

- Insert the 4 hooks in the square holes and fix them to the unit using 4 screws no. 8 - 32 x 3/4".

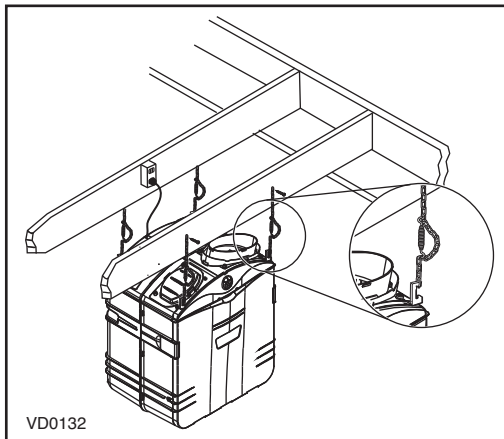
NOTE : If an optional control has to be installed, go to Section 5 on pages 19 to 23.
If not, continue the installation.

- Reinstall the front plate, the door and the door stopper.

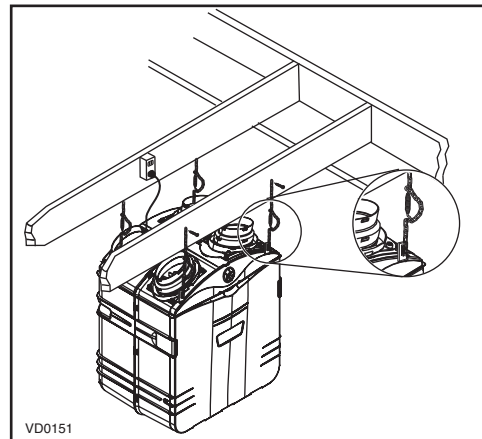


- Hang the unit to the floor joist, using 4 no. 8 x 1½" screws, 4 chains and 4 springs. See illustrations below.

HEPA 3.2



THH 1.0



4. UNIT INSTALLATION (CONT'D)

4.6 PLANNING OF THE HEPA 3.2 DUCTWORK

CAUTION

Do not attempt to recover the exhaust air from a dryer or a range hood. This would cause clogging of the filters.

- Follow the instructions in Section 4.7 below to determine the appropriate duct diameters for your system. Do not use branch lines smaller than 6" Ø (152 mm) diameter.
- Do not use wall cavities as ducts.
- Keep it simple. Plan for a minimum of bends and joints.
- Do not ventilate crawl spaces or cold rooms.
- If the house has two floors or more, be sure to plan for at least one exhaust register at the highest lived-in level of the house.

4.7 CALCULATING THE HEPA 3.2 DUCT SIZE

Use the table below to ensure that the ducts you intend to install will be carrying air flows around the recommended values. Avoid installing ducts that will have to carry air flows near the maximum values and never install a duct if its air flow exceed the maximum value.

Duct Diameter	Recommended Air Flow			Maximum Air Flow		
6" (152 mm)	120 cfm	57 l/s	204 m³/h	180 cfm	85 l/s	306 m³/h
7" (178 mm)	185 cfm	87 l/s	314 m³/h	270 cfm	127 l/s	459 m³/h
8" (203 mm)	260 cfm	123 l/s	442 m³/h	380 cfm	179 l/s	645 m³/h

NOTE : Examples 4.7.1 and 4.7.2 use imperial measures. The same calculation applies to metric measures.

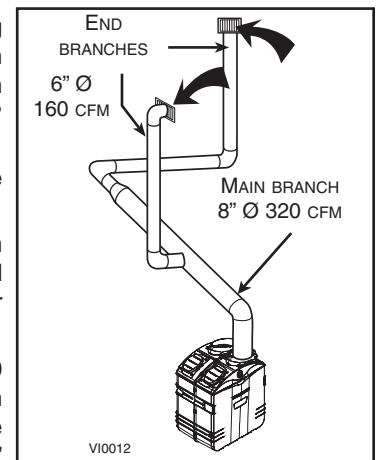
4.7.1 EXAMPLE OF CALCULATION :

Problem : My installation requires two exhaust registers (one for the kitchen, one for the living room). I will connect these registers to a main duct which will connect to the unit (high speed performance value of 320 cfm). What size of duct should I use for the main exhaust duct and for the two end branches leading to the registers? (See illustration beside.)

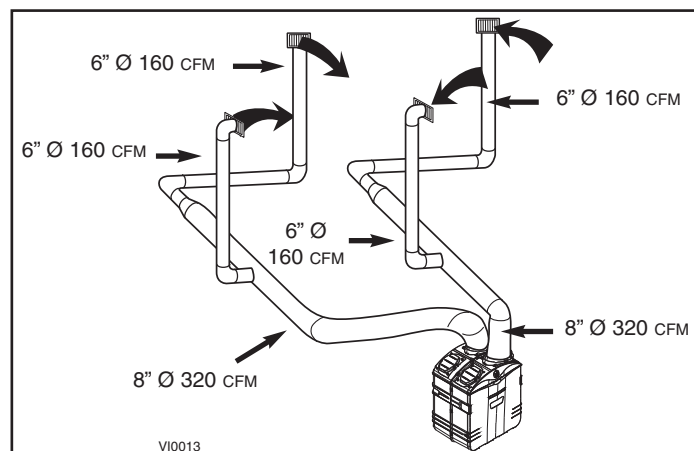
Solution : Simplified method. (For a more detailed method of calculating duct size refer to the ASHRAE or HRAI HANDBOOK).

Main duct : Table above indicates a 8" Ø : recommended air flow : 260 cfm; maximum air flow : 380 cfm. The high speed air flow of 320 cfm is close enough to the recommended value (260) and far enough of the maximum value (380). Therefore a 8" Ø duct or larger is an appropriate choice for the main exhaust duct.

End branches : Each end branch will have to transport an air flow of 160 cfm (320 divided by 2). Table above indicates a 6" Ø : recommended air flow : 120 cfm; maximum air flow : 180 cfm. The high speed air flow of 160 cfm is close enough to the recommended value (120) and far enough of the maximum value (180). Therefore a 6" Ø duct or larger is an appropriate choice for the 2 end branches.



4.7.2 EXAMPLE OF A DESIGN FOR A FULLY DUCTED SYSTEM FOR A UNIT HAVING A HIGH SPEED PERFORMANCE OF 320 CFM.



4. UNIT INSTALLATION (CONT'D)

4.8 PLANNING OF THE THH 1.0 DUCTWORK

CAUTION

Do not attempt to recover the exhaust air from a dryer or a range hood. This would cause clogging of the filters and the heat recovery core.

- Follow the instructions in Section 4.9 below to determine the appropriate duct diameters for your system. Do not use branch lines smaller than 4" Ø (102 mm) diameter.
- Do not use wall cavities as ducts.
- Keep it simple. Plan for a minimum of bends and joints.
- Do not ventilate crawl spaces or cold rooms.
- If the house has two floors or more, be sure to plan for at least one exhaust register at the highest lived-in level of the house.
- Keep the length of insulated ducts to a minimum.

4.9 CALCULATING THE THH 1.0 DUCT SIZE

Use the table below to ensure that the ducts you intend to install will be carrying air flows around the recommended values. Avoid installing ducts that will have to carry air flows near the maximum values and never install a duct if its air flow exceed the maximum value.

Duct Diameter	Recommended Air Flow			Maximum Air Flow		
4" (152 mm)	40 cfm	19 l/s	68 m³/h	60 cfm	28 l/s	102 m³/h
5" (178 mm)	75 cfm	35 l/s	127 m³/h	110 cfm	52 l/s	187 m³/h
6" (203 mm)	120 cfm	57 l/s	204 m³/h	180 cfm	85 l/s	306 m³/h

NOTE : Examples 4.9.1 and 4.9.2 use imperial measures. The same calculation applies to metric measures.

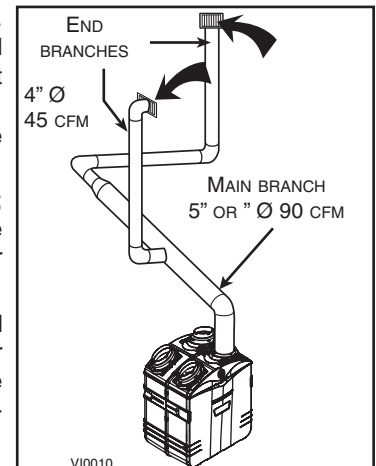
4.9.1 EXAMPLE OF CALCULATION :

Problem : My installation requires two exhaust registers (one for the kitchen, one for the bathroom). I will connect these registers to a main duct which will connect to the unit (high speed performance value of 90 cfm). What size of duct should I use for the main exhaust duct and for the two end branches leading to the registers? (See illustration beside.)

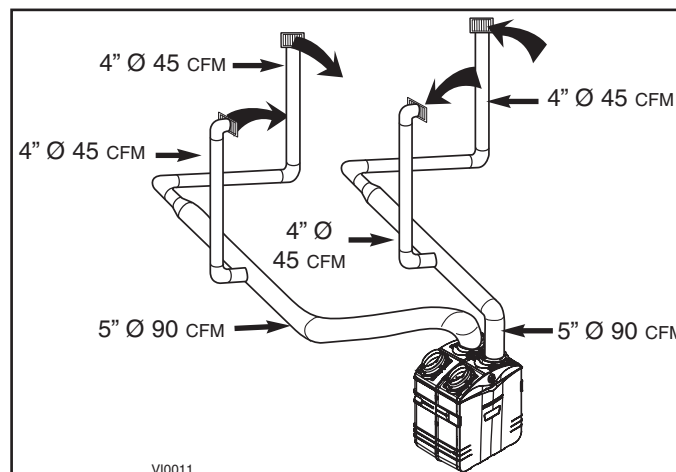
Solution : Simplified method. (For a more detailed method of calculating duct size refer to the ASHRAE or HRAI HANDBOOK).

Main duct: Table above indicates a 5" Ø duct : recommended air flow : 75 cfm; maximum air flow : 110 cfm. The high speed air flow of 90 cfm is close enough to the recommended value (75) and under the maximum value (110). Therefore a 5" Ø duct or larger is an appropriate choice for the main exhaust duct.

End branches : Each end branch will have to transport an air flow of 45 cfm (90 divided by 2). Table above indicates a 4" Ø duct : recommended air flow : 40 cfm; maximum air flow : 60 cfm. The high speed air flow of 45 cfm is close enough to the recommended value (40) and far enough away from the maximum value (60). Therefore a 4" Ø duct or larger is an appropriate choice for the 2 end branches.



4.9.2 EXAMPLE OF A DESIGN FOR A FULLY DUCTED SYSTEM FOR A UNIT HAVING A HIGH SPEED PERFORMANCE OF 90 CFM.



4. UNIT INSTALLATION (CONT'D)

4.10 INSTALLING DUCTWORK AND REGISTERS

4.10.1 STAND ALONE SYSTEM

Stale air exhaust ductwork

⚠ WARNING

Never install a stale air exhaust register in a closed room where a combustion device operates, such as a gas furnace, a gas water heater or a fireplace.

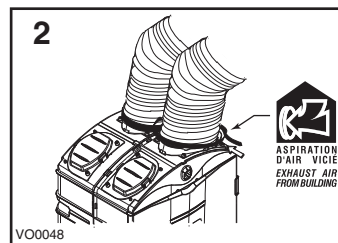
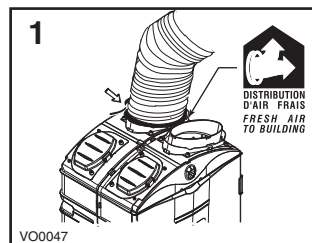
- Install the stale air exhaust registers in the areas where the contaminants are produced : kitchen, living room, etc. Position the register as far from the stairway as possible and in such a way that the air circulates in all the lived-in spaces in the house.
NOTE : For HEPA 3.2 unit only, never install a stale air exhaust register in a bathroom.
- If a register is installed in the kitchen, it must be located at least 4 feet (1.2 m) from the range.
- Install the registers at 6 in. to 12 in. (152 mm to 305 mm) from the ceiling on an interior wall OR install it in the ceiling.
- Use the provided red sticker dots to identify the duct.

Filtered air distribution ductwork

- Install the filtered air distribution registers in the lowest level to ensure the greatest possible air circulation. Keep in mind that the filtered air registers must be located as far as possible from the stale air registers.
- Install the register in the ceiling OR at 6 in. to 12 in. (152 mm to 305 mm) from the ceiling on an interior wall. The duct length should be at least 15 feet (4.6 m). (The filtered air will then flow through the room and mix with room air, ensuring a continuous recirculating air flow.)
- Use the provided blue sticker dots to identify the duct.

How to connect the flexible duct to the HEPA 3.2 unit ports

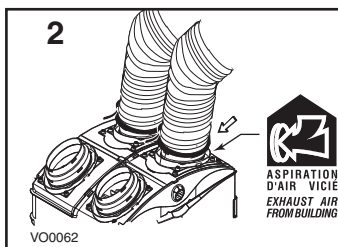
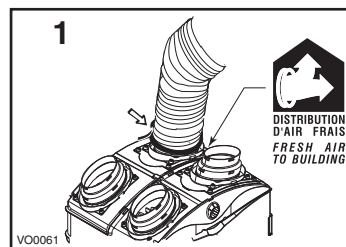
- Each port is identified on top of the unit (see illustrations below). Attach the filtered air to building duct to its corresponding port, using tie wrap (1). Then, attach the exhaust air from building duct to the other port (2).



NOTE : Use a 8" insulated duct if the duct will have to go through extreme temperature (e.g.: in northern area, not heated attic in winter or attic not cooled in southern area). Also, if you plan to stop the unit for more than 12 hours, we recommend to cover the duct with R12 insulation.

How to connect the flexible duct to the THH 1.0 unit ports

- Each port is identified on top of the unit (see illustrations below). Attach the fresh / filtered air to building duct to its corresponding port, using tie wrap (1). Then, attach the exhaust air from building duct to the other port (2).



NOTE : Use a 5" or 6" insulated duct if the duct will have to go through extreme temperature (e.g.: in northern area, not heated attic in winter or attic not cooled in southern area). Also, if you plan to stop the unit for more than 12 hours, we recommend to cover the duct with R12 insulation.

4. UNIT INSTALLATION (CONT'D)

4.10 INSTALLING DUCTWORK AND REGISTERS (CONT'D)

4.10.2 CENTRAL DRAW POINT

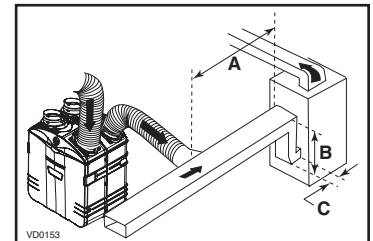
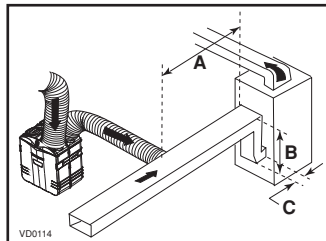
NOTE FOR THH 1.0 UNIT ONLY : For this type of installation, it is not essential that the furnace blower runs when the unit is in operation, but we recommend it.

Filtered air (HEPA 3.2 unit) distribution ductwork (Return side connection)

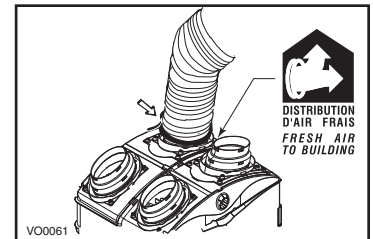
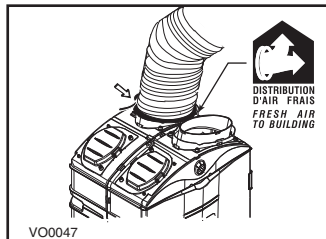
WARNING

When performing duct connections, always use approved tools and materials. Respect all corresponding laws and/or safety regulations. Please refer to your local building code.

- Locate the opening for the filtered air ductwork (HEPA 3.2 unit) or fresh/filtered air ductwork (THH 1.0 unit) on the furnace/air handler return duct at a minimum linear distance of 2' (0.61 m) upstream (return side : $A+B+C$).



- Attach this duct to the **FRESH AIR TO BUILDING** port (see icon on the top of the unit), using tie wrap and duct tape. Use the provided blue sticker dots to identify the duct.



Stale air exhaust ductwork

Same as for Stand Alone System, described in point 4.10.1.

4. UNIT INSTALLATION (CONT'D)

4.10 INSTALLING DUCTWORK AND REGISTERS (CONT'D)

4.10.3 RETURN-RETURN

NOTE FOR THH 1.0 UNIT ONLY : To avoid the cross-contamination and achieve highest efficiencies, the furnace/air handler blower must always be ON (or the unit efficiency will be affected).

Filtered air (HEPA 3.2 unit) or fresh/filtered air (THH 1.0) distribution ductwork (Return side connection)

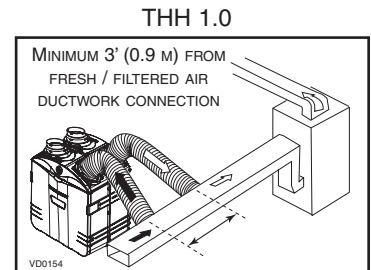
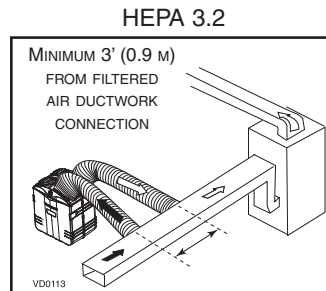
Same as for Central Draw Point, described in point 4.10.2.

Stale air exhaust ductwork (Return side connection)

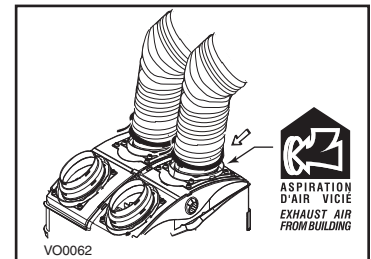
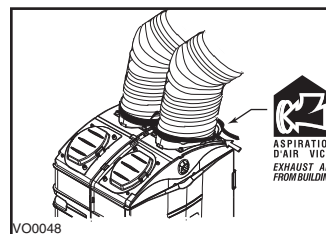
⚠ WARNING

When performing duct connections, always use approved tools and materials. Respect all corresponding laws and/or safety regulations. Please refer to your local building code.

- Locate the take-off duct opening at least 3' (0.9m) from the filtered air (HEPA 3.2 unit) or fresh/filtered air (THH 1.0 unit) ductwork connection. Proceed as for the filtered air ductwork, but instead of using the blue dot sticker to identify the duct, use the red dot.



- Attach this duct to the **EXHAUST AIR FROM BUILDING** port (see icon on the top of the unit) using tie wrap and duct tape.



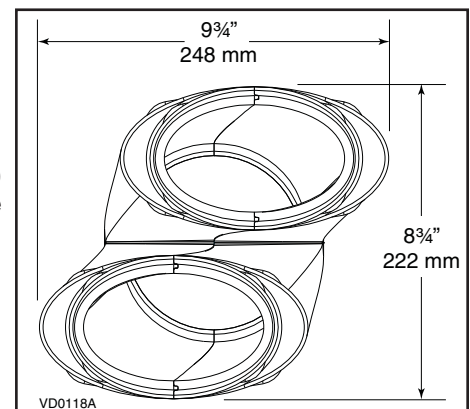
4.11 INSTALLING INSULATED FLEXIBLE DUCTS (THH 1.0 UNIT ONLY)

CAUTION

Make sure the vapor barrier on the insulated ducts does not tear during installation.

Use the following procedure for connecting the insulated flexible ducts to the Tandem® transition* (**EXHAUST AIR TO OUTSIDE** and **FRESH AIR FROM OUTSIDE**).

- The joist opening needed to install the Tandem transition must be 9¾" (248 mm) minimum. Also, the maximum height of the Tandem transition is 8¾" (222 mm). See Tandem transition end view beside.



*Patented.

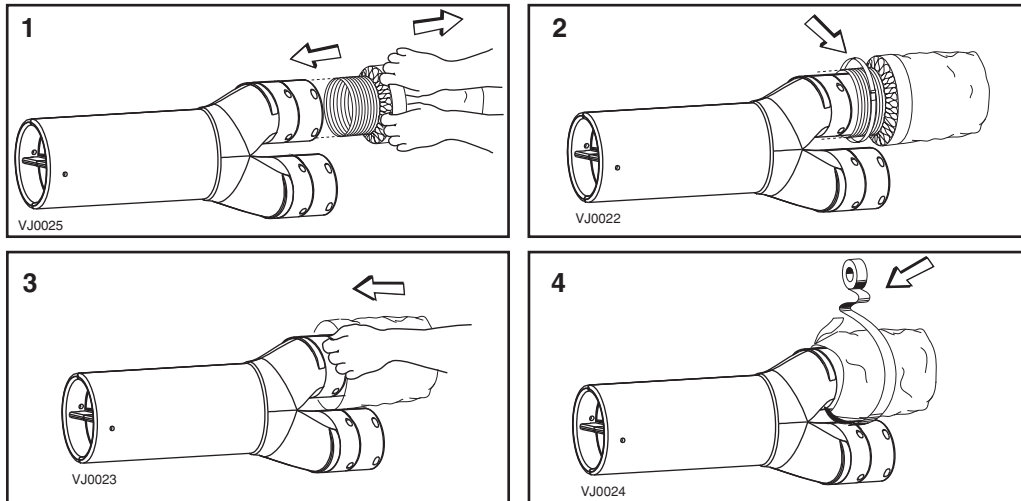
NOTE : If the joists are perpendicular to the ducts, or if the connection to the exterior hood is in a limited area, your installation will need two exterior hoods instead of one. In this case, do not use the Tandem transition. Identify each insulated duct. For fresh air from outside duct, use the blue sticker dots (one dot at each end). For exhaust air to outside duct, use the red sticker dots (one dot at each end). Then, go to point 4.11.2 and refer to the optional single hood enclosed instructions.

4. UNIT INSTALLATION (CONT'D)

4.11 INSTALLING INSULATED FLEXIBLE DUCTS (THH 1.0 UNIT ONLY) (CONT'D)

4.11.1 CONNECTION TO TANDEM TRANSITION

1. For each duct, pull back the insulation to expose the interior flexible duct.
2. Connect the interior flexible duct to the smaller part of the Tandem transition (5" oval) using a 24" tie wrap.
NOTE : If you are using a 6" diameter insulated duct, use the bigger part of the Tandem transition (6" oval).
3. Pull the insulation over the joint. Pull the vapor barrier over the insulation.
4. Apply duct tape gently to the joint in order to make an airtight seal. See figures below.

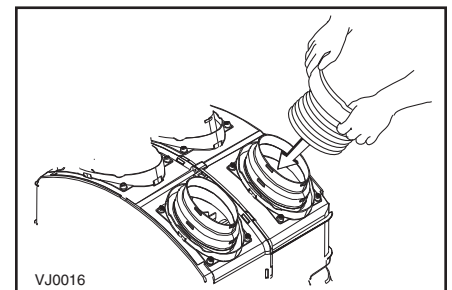


Identify each insulated duct. For fresh air from outside duct, use the blue sticker dots (one dot at each end). For exhaust air to outside duct, use the red sticker dots (one dot at each end). **Be careful to identify the exhaust air to outside duct (red dot) at the upper section of the transition.**

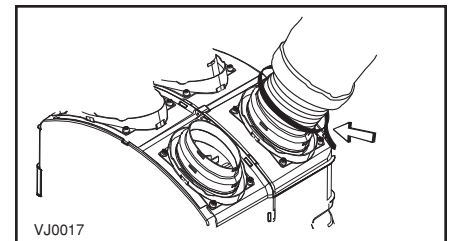
4.11.2 CONNECTION TO THE 5" TO 6" OVAL PORTS OF THE UNIT

Use the following procedure for connecting the insulated flexible ducts to the 5" to 6" oval ports of the unit (*EXHAUST AIR TO OUTSIDE* and *FRESH AIR FROM OUTSIDE*).

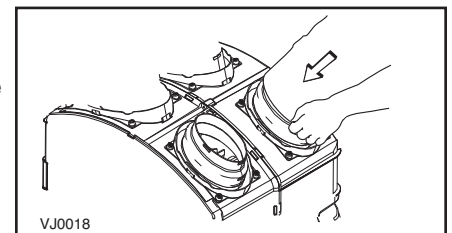
1. Pull back the insulation to expose the flexible duct.



2. Connect the interior flexible duct to the smaller part of the port (5" oval) using a 24" tie wrap.
NOTE : If you are using a 6" diameter insulated duct, use the bigger part of the port (6" oval).



3. Pull the insulation over the joint and tuck it between the inner and outer rings of the port. Pull the vapor barrier over the insulation and over the outer ring of the port.

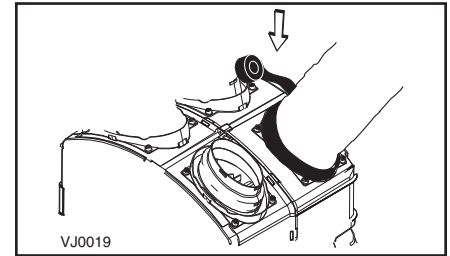


4. UNIT INSTALLATION (CONT'D)

4.11 INSTALLING INSULATED FLEXIBLE DUCTS (THH 1.0 UNIT ONLY) (CONT'D)

4.11.2 CONNECTION TO THE 5" TO 6" OVAL PORTS OF THE UNIT (CONT'D)

4. Apply duct tape gently to the joint in order to make an airtight seal.



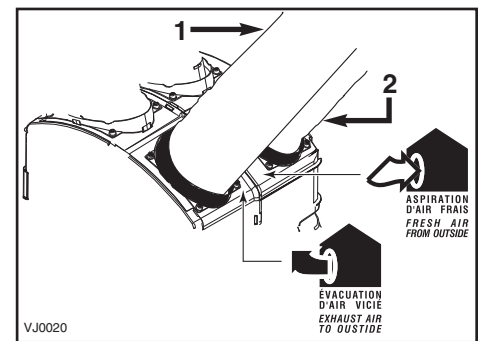
CAUTION

Avoid compressing the insulation when you pull the tape tightly around the joint. Compressed insulation loses its insulation properties and causes water dripping due to condensation on the exterior surface of the duct.

5. Repeat steps 1 to 4 for the other 5" to 6" port.

See figure beside to find the *EXHAUST AIR TO OUTSIDE* (1) and *FRESH AIR FROM OUTSIDE* (2) oval ports on the top of the unit.

Be careful to connect the right insulated duct to its corresponding port.

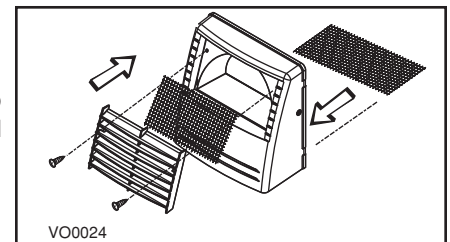


4.12 INSTALLING DUAL EXTERIOR HOOD* (THH 1.0 UNIT ONLY)

4.12.1 ASSEMBLING DUAL EXTERIOR HOOD

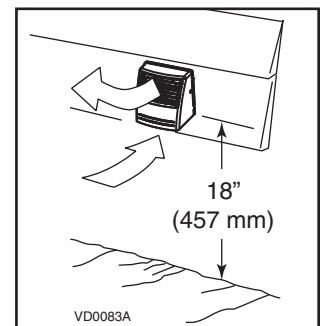
Exterior dual hood comes in separate parts. Using 2 no. 8 x 3/4" screws, assemble the top metal screen and the plastic grille to the dual exterior hood. Then, slide the bottom metal screen to the dual exterior hood. See illustration beside.

*Patented.



4.12.2 LOCATING THE DUAL EXTERIOR HOOD

The dual exterior hood must be installed at a minimum distance of 18 inches (457 mm) from the ground. See illustration beside.



⚠ WARNING

Make sure this hood is at least 6 feet (1.8 m) away (or more, as per applicable building codes or standards) from sources of contamination such as :

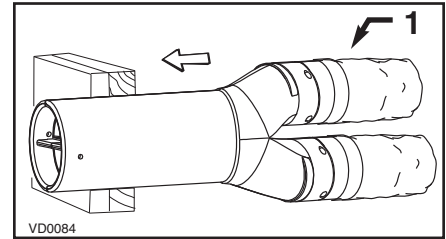
- High efficiency furnace vent
- Any exhaust from a combustion source
- Gas meter exhaust, gas barbecue-grill
- Garbage bin

4. UNIT INSTALLATION (CONT'D)

4.12 INSTALLING DUAL EXTERIOR HOOD (THH 1.0 UNIT ONLY)(CONT'D)

4.12.3 CONNECTING TANDEM TRANSITION TO THE DUAL EXTERIOR HOOD

1. Using a jig saw, cut a 6" diameter hole in the exterior wall and insert the Tandem transition through this hole.

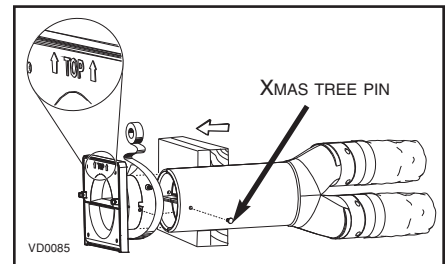


1) EXHAUST AIR TO OUTSIDE DUCT

CAUTION

The Tandem transition must be inserted in such a way that the **EXHAUST AIR TO OUTSIDE** duct will be located on the top.

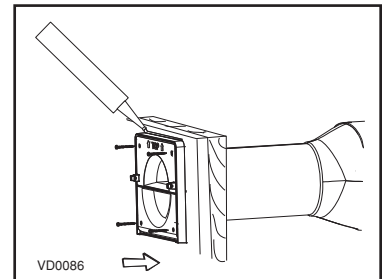
2. Joint the end of the Tandem transition to the rear of the exterior backplate. Secure with 2 Xmas tree pins and seal properly with duct tape.



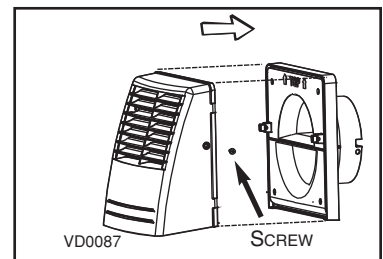
CAUTION

The exterior backplate must be installed with the word **"TOP"** pointing upward.

3. Lean the exterior backplate to the exterior wall. Using 4 no. 8 x 1½" screws, fix it to the wall. Seal the outline with caulking.

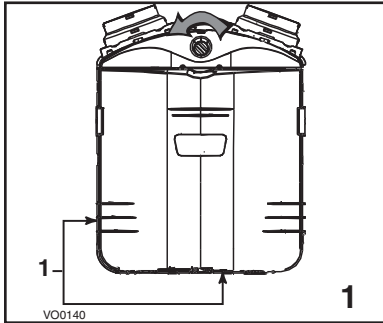


4. Snap the assembled exterior hood to its backplate and secure with 2 provided screws (no. 8 x 3/4" long).

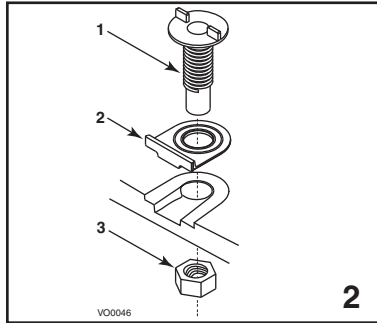


4. UNIT INSTALLATION (CONT'D)

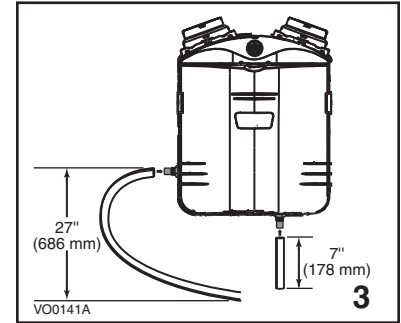
4.13 CONNECTING THE DRAIN (THH 1.0 UNIT ONLY)



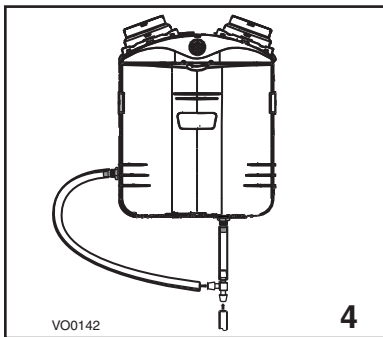
1. Remove the door by turning the switch knob to the OFF position (to unlock the door). Then, unlatch the door and open it. Slide out the core assembly to access the 2 drain fitting hole locations (1). Punch out the holes.



2. Hand tighten the 2 plastic drain fittings (1) using the gaskets (2) and nuts (3) as shown. Close the door.

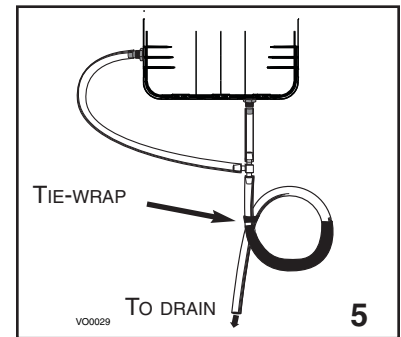


3. Cut 2 sections of plastic tubing; one 7" (178 mm) long and one 27" (686 mm) long, and attach them to each drain fitting as shown.



4. Join these 2 sections to the "T" junction and main tube as shown.

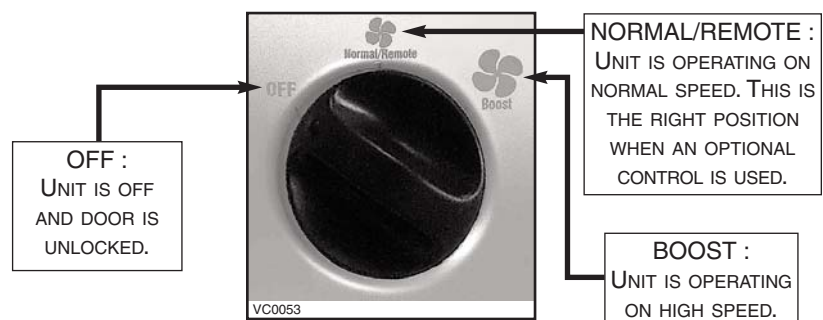
5. Make a water trap loop in the tube to prevent the unit from drawing unpleasant odors from the drain source. Make sure this loop is situated BELOW the "T" as shown. This will prevent water from being drawn back up into the unit in case of negative pressure. Run the tube to the floor drain or an alternative drain pipe or pail. Be sure there is a slight slope for the run-off.



5. CONTROLS

5.1 MAIN SWITCH

These units are equipped with a 3-position main switch, located on the front panel.



5. CONTROLS (CONT'D)

5.2 OPTIONAL CONTROLS



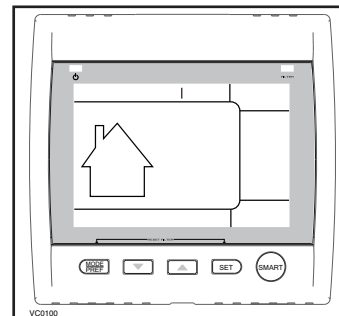
HEPA 3.2
no. 04862 or no. 05439

The optional control part number for the HEPA 3.2 unit is 04862 (for Venmar unit) or 05439 (for vänEE unit).



THH 1.0
no. 04391 or no. 05536

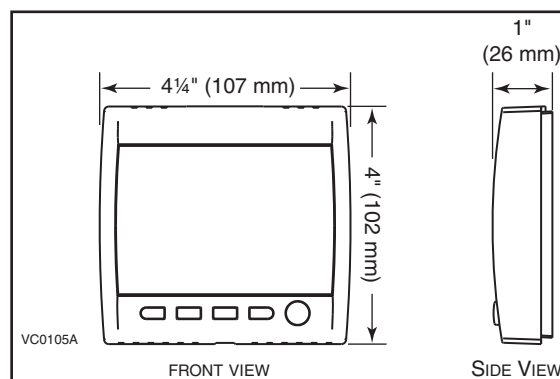
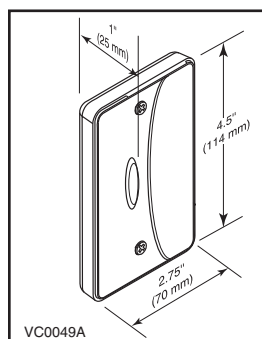
The optional control part number for the THH 1.0 unit is 04391 (for Venmar unit) or 05536 (for vänEE unit).



THH 1.0
no. 40440 or no. 40460

The part number for the optional Altitude control is 40440 (for Venmar unit) and the part number for the optional Platinum control is 40460 (for vänEE unit).

5.3 DIMENSIONS



5.4 INSTALLATION OF THE OPTIONAL CONTROL

⚠ WARNING

Always disconnect the unit before making any connections. Failure in disconnecting power could result in electric shock or damage of the control or electronic module inside the unit.

CAUTION

Failure to comply with the following can cause erratic operation of the unit :

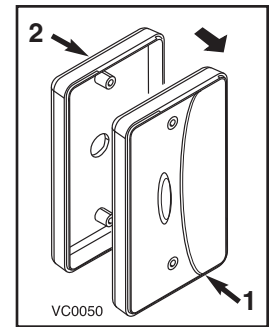
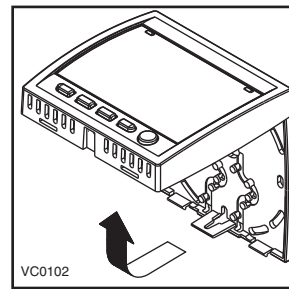
- **Never install more than one optional wall controller per unit.**
- **Keep control low voltage wiring at least 1 foot (305 mm) away from motors, lighting ballast, light dimming circuit and power distribution panel. Do not route control wiring alongside house power wiring.**
- **Ensure the wires are securely connected.**

5. CONTROLS (CONT'D)

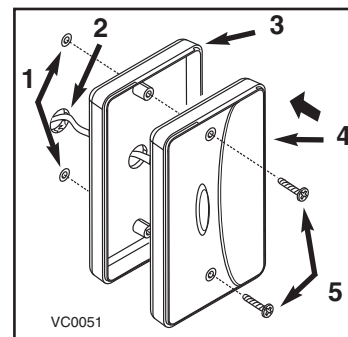
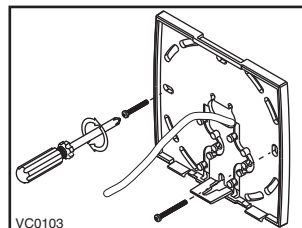
5.4 INSTALLATION OF THE OPTIONAL CONTROL (CONT'D)

1. Determine the more convenient location for the control.

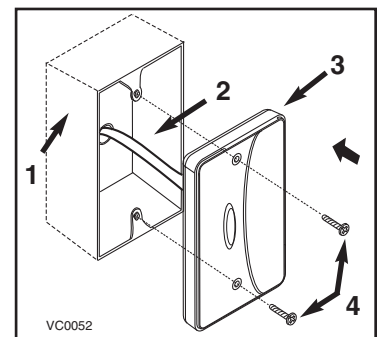
2. Remove the cover plate control (1). If you prefer to have your optional main control mounted on an approved outlet box or an approved mounting bracket (not included), discard the backplate (2).



3. Take one end of the cable and pass it through the control backplate (or outlet box or mounting bracket).

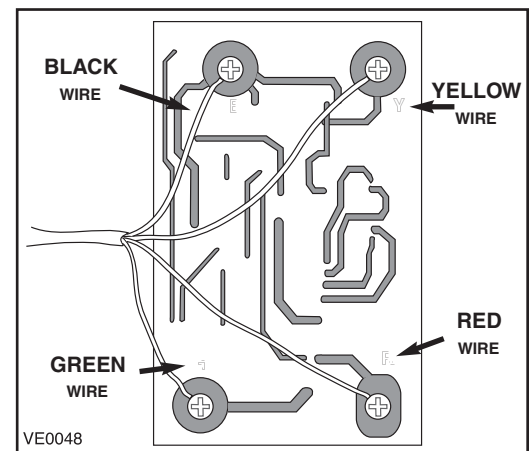
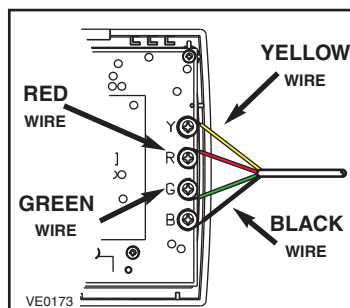


- 1) Wall Anchors
2) Control Wire
3) Backplate
4) Control
5) Screw



- 1) Outlet Box
2) Control Wire
3) Control
4) Screw

4. Splice back this end of the cable to access to the 4 wires. Remove the insulated sleeve of each wire ends. Make a loop with each bare end wire to hook them to their corresponding screw. Connect YELLOW wire to "Y" screw, RED wire to "R" screw, GREEN wire to "G" screw and BLACK wire to "B" screw. See illustrations at right.



CAUTION

Be careful not to pinch wires when reinstalling the front module on its back plate.

⚠ WARNING

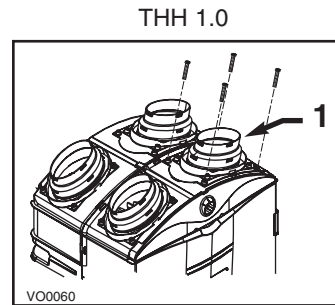
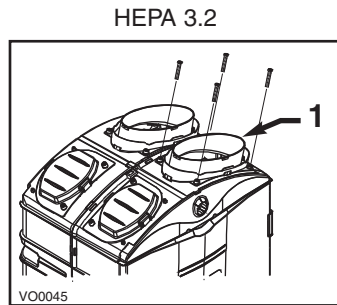
Make sure that the wires do not short circuit between themselves or by touching any other components on the control.

5. Reinstall the cover plate.

5. CONTROLS (CONT'D)

5.4 INSTALLATION OF THE OPTIONAL CONTROL (CONT'D)

6. Route the cable to the unit.
7. If it is not done yet, remove the front 8" (HEPA 3.2 unit) or the 5" to 6" (THH 1.0 unit) oval port (1).



8. Remove the front panel of the unit by unscrewing its retaining screws.



9. Using a small rod, pierce a hole through the unit at the end of the wire channel. (See picture beside.) Splice back the end of the cable to access the 4 wires. Remove the insulated sleeve of each wire ends. Insert the end of the cable through the unit, using the small hole previously done.

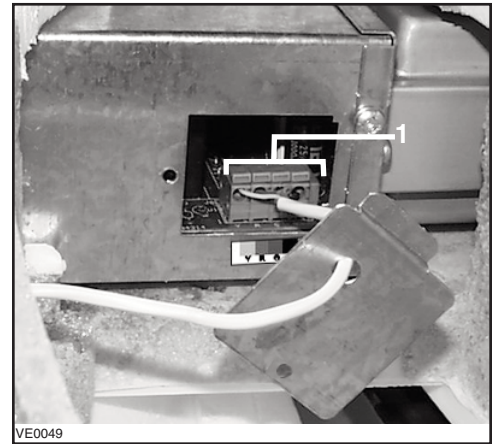


5. CONTROLS (CONT'D)

5.4 INSTALLATION OF THE OPTIONAL CONTROL (CONT'D)

10. In order to access the unit PCB terminals, remove the side door located on the electrical box and punch out its knock out. Run the cable through the knock-out hole and connect each wire in their corresponding terminal (YELLOW in "Y", RED in "R", GREEN in "G" and BLACK in "B").

NOTE : Push forward slightly on the little tabs (1) to ease insertion of each wires.
See picture beside.



11. Reinstall the side door on the electrical box and the front oval port on the unit.

12. Route the wire through its channel and reinstall the front panel on the unit.
See picture beside.



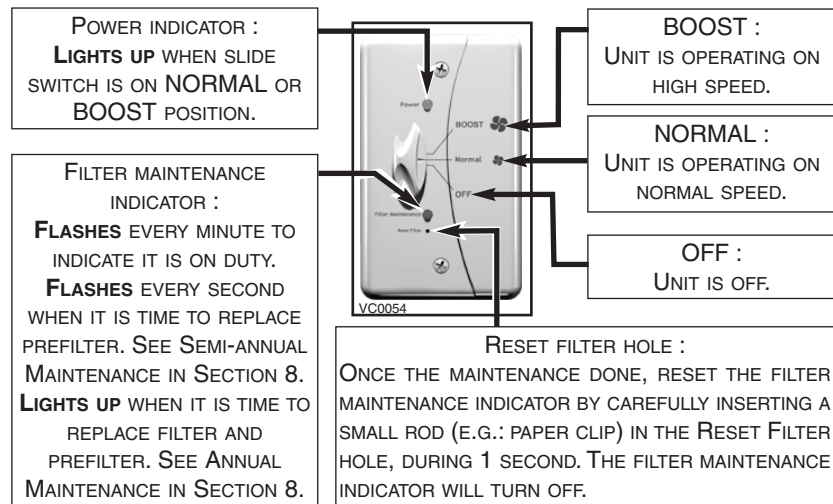
13. If the installation is not completed, return to Section 4.5 on page 10.
If the installation is completed, plug the unit.

NOTE : When using an optional control, the main switch on the unit must always be positioned to NORMAL/REMOTE.

5. CONTROLS (CONT'D)

5.5 OPERATING NO. 04862 OR NO. 05439 CONTROL

5.5.1 No. 04862 OR NO. 05439 CONTROL DESCRIPTION

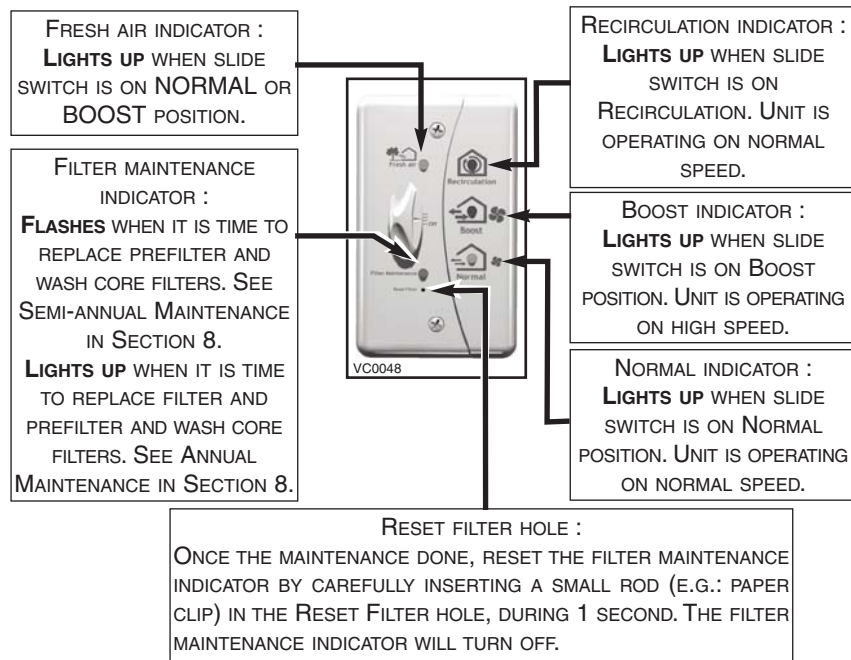


5.5.2 USING NO. 04862 OR NO. 05439 CONTROL

- **OFF :** To stop the unit, slide the button on this position.
- **NORMAL :** For a day-to-day usage, slide the button on this position. The unit then will operate on normal speed.
- **BOOST :** For a high speed operation, slide the button on this position.
Generally used when extreme conditions occur, e.g.: parties, smokers, etc.

5.6. OPERATING 04391 OR 05536 CONTROL

5.6.1 No. 04391 OR NO. 05536 CONTROL DESCRIPTION



5.6.2 USING 04391 OR 05536 CONTROL

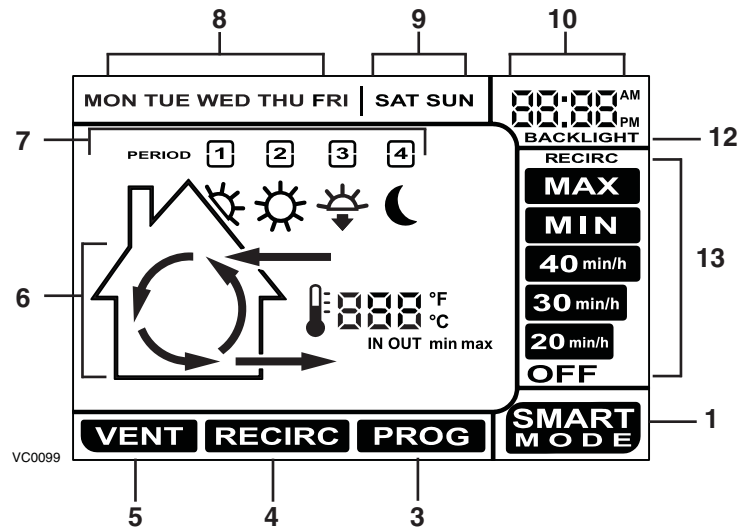
- **OFF :** To stop the unit, slide the button on this position.
- **NORMAL :** For a day-to-day usage, slide the button on this position. The unit then will operate on normal speed.
- **BOOST :** For a high speed operation, slide the button on this position. Generally used when extreme conditions occur, e.g.: parties, smokers, etc.
- **RECIRCULATION :** For a normal speed operation, without exchanging air with the outside, slide the button on this position. This mode is ideal when the inside air is too dry, or during extremely cold outside temperature. It can be used also to recirculate the heat coming from a wood stove throughout the house, or the fresh air from a cooling system.

5. CONTROLS (CONT'D)

5.7 OPERATING THE ALTITUDE OR PLATINUM CONTROL

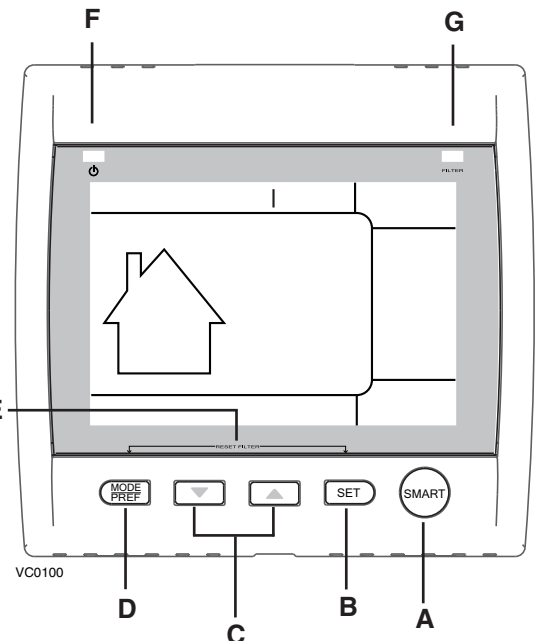
5.7.1 ON-SCREEN INDICATORS

- 1- **SMART Mode.** Entirely automatic mode optimizing the ventilation.
- 2- **Temperature Indicators**
- 3- **PROGRAM Mode.** Allows to program the desired ventilation according to the period of the day.
- 4- **RECIRCULATION Mode.** Manual mode, performing air recirculation inside the house.
- 5- **VENTILATION Mode.** Manual mode performing air exchange with the outside.
- 6- Animated arrows showing ventilation status (ventilation or recirculation).
- 7- Periods of the day (morning, day, evening and night).
- 8- Week days.
- 9- Week-end days.
- 10- Hour display.
- 11- AM or PM display.
- 12- Appears only when setting backlight preferences.
- 13- Ventilation / Recirculation speeds and programming options.



5.7.2 CASING INDICATORS AND KEYS

- | | |
|--|--|
| A- SMART Key | Enables and disables the SMART Mode . |
| B- Set Key | <ul style="list-style-type: none"> • Press 3 seconds to access setting periods for Program Mode. • Confirms the chosen option and goes to following setting. |
| C- Arrow Keys | <ul style="list-style-type: none"> • Adjust ventilation and recirculation speeds. • Allows to review the program's periods. • Adjust Preference and Program values. |
| D- Mode / Pref Key | <ul style="list-style-type: none"> • Mode : Selects whether Ventilation Mode, Recirculation Mode or Program Mode. • Pref : Push 3 seconds to access Preference settings. |
| E- Reset Filter Keys | Press on B and D keys simultaneously for 5 seconds to turn off (reset) the filter maintenance indicator. |
| F- Power Indicator | Illuminates when the control is operating. |
| G- Filter Maintenance Indicator | Perform filters maintenance (refer to section 8) |



5. CONTROLS (CONT'D)

5.7 OPERATING THE ALTITUDE OR PLATINUM CONTROL (CONT'D)

The Platinum main control is pre-programmed and ready to go. All you have to do is to set day and time. Then check the settings below and change if needed.

5.7.3 SETTING PREFERENCES

Press on **MODE / PREF KEY (D)** for 3 seconds.



NOTE : You can exit Preferences setting by pressing on **MODE / PREF KEY (D)** for 3 seconds any time in the process, or wait 60 seconds. The modified values will be kept in memory.

WHAT WILL YOU SEE

If the control will be set for the very first time, the current day will be the first setting to be made; **MON** (for Monday) will flash on screen. If the control was previously set up, when setting preferences, the control returns to the last preference chosen on previous setting. While setting preferences, the corresponding setting value flashes (E.G.: While setting current hour, hour is flashing).

HOT TO PROCEED

For every settings in table below :

- USE   TO SELECT VALUE.
- Press **SET KEY (B)** to confirm the selected preference and go to next setting.







SETTING	AVAILABLE VALUE	DEFAULT OPTIONS
CURRENT DAY	MON/TUE/WED/THU/FRI/SAT/SUN	MON
HOUR DISPLAY	12:00 ^{AM/PM} OR 24:00	12:00 ^{AM/PM}
CURRENT HOUR	FROM 0 TO 12 OR 24	12
CURRENT MINUTE	FROM 00 TO 59	00
TEMPERATURE UNIT	°C OR °F	°C
INSIDE TEMPERATURE DISPLAY	ON OR OFF	ON
MINIMUM OUTSIDE TEMPERATURE FOR AIR EXCHANGE	-40°C TO 0°C OR -40°F TO 32°F	-25°C OR -13°F
MAXIMUM OUTSIDE TEMPERATURE FOR AIR EXCHANGE	1°C TO 40°C OR 33°F TO 104°F	27°C OR 81°F
IN PROG OR SMART MODE, THESE LIMIT VALUES ALLOW TO STOP AIR EXCHANGE WITH THE OUTSIDE.		
BACKLIGHT COLOR	BLUE OR GREEN	BLUE
BACKLIGHT DISPLAY	AUTO OR ON	AUTO
AUTO : BACKLIGHT ACTIVATED 10 SECONDS WHEN ANY KEY IS PRESSED. ON: BACKLIGHT ALWAYS ON.		
OFF MODE FOR INTERMITTENT MODE	VENTILATION/RECIRCULATION OR VENTILATION/OFF	VENT/RECIRC.
AFTER A VENTILATION PERIOD, DETERMINES THE SECOND PART OF THE CYCLE (RECIRCULATION OR OFF)		

5. CONTROLS (CONT'D)

5.7 OPERATING THE ALTITUDE OR PLATINUM CONTROL (CONT'D)

5.7.3 SETTING PREFERENCES (CONT'D)

Pressing on **MODE / PREF** key (**D**) successively allows to go from **Ventilation** mode to **Recirculation** mode and then to **Program** mode (**VENT** (5), **RECIRC** (4) and **PROG** (3) on control screen).

- In **Ventilation** Mode, use   to change the ventilation speed (displayed in all options except **RECIRC**).
- In **Recirculation** mode, use   to change the recirculation speed (displayed in **(13)**, OFF, MIN, MAX).
- In **Program** mode, use   to review the period settings without changing them (the period icons are displayed in **(7)**).

Pressing once on **A** allows to turn the ventilation unit in Smart mode. On this mode, the ventilation unit operation will be driven by the outdoor temperature and by the indoor conditions. Press once more to exit Smart mode.

5.7.4 SETTING PERIODS FOR PROGRAM MODE







The Program Mode allows the user to customize the operation of his/her ventilation unit, for week and weekend days. All days are divided in 4 periods. The periods starting hour and ventilation speed are factory set (see below).

DAILY PERIODS DEFAULT SETTINGS		
PERIOD	STARTING HOUR	MODE
PERIOD 1 (MORNING)	6:00 AM	MIN
PERIOD 2 (DAY)	9:00 AM	20 MIN/H
PERIOD 2 (EVENING)	5:00 PM	MIN
PERIOD 2 (NIGHT)	11:00 PM	20 MIN/H

5.7.5 TO CHANGE THESE VALUES :

Press on **SET** key (**B**) for 3 seconds, **PROG** (for program) will appear on screen, and week days will flash.

NOTE : You can exit Periods setting by pressing on **SET KEY (B)** for 3 seconds any time in the process, or wait 60 seconds.

- Use   to select between setting week days or weekend days.
- Press **SET KEY (B)** to confirm the choice, and go to setting daily period 1. (**Period 1** will appear on screen, and hour display will flash).
- Use   to select the period starting hour.
NOTE : Time changes by 15 minutes increments.
- Press **SET KEY (B)** to confirm and go to select the ventilation speed or type (will flash on screen).
- Use   to select the ventilation speed or type.
- Press **SET KEY (B)** to confirm and go to daily Period 2 (**Period 2** will appear on screen, and hour display will flash).

Proceed as for Period 1 for all daily periods. Once the ventilation speed or type for daily Period 4 has been selected :

- Press **SET KEY (B)** to confirm.

NOTE : If the week days were the first to be set, the weekend days will appear on screen; but if the weekend days were the first to be set, then the week days will appear on screen.

(**Period 1** will appear on screen, and hour display will flash).

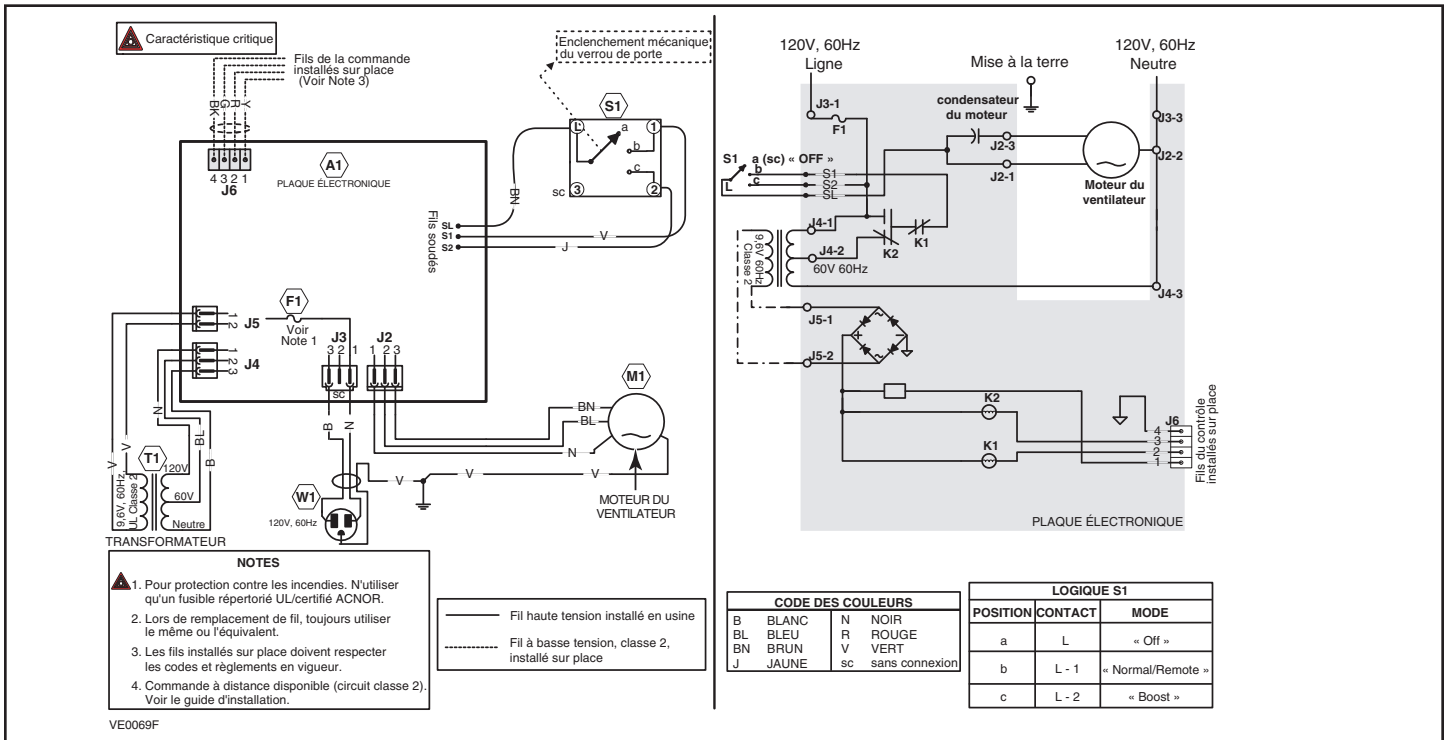
- Set periods as described above.

6. WIRING DIAGRAMS

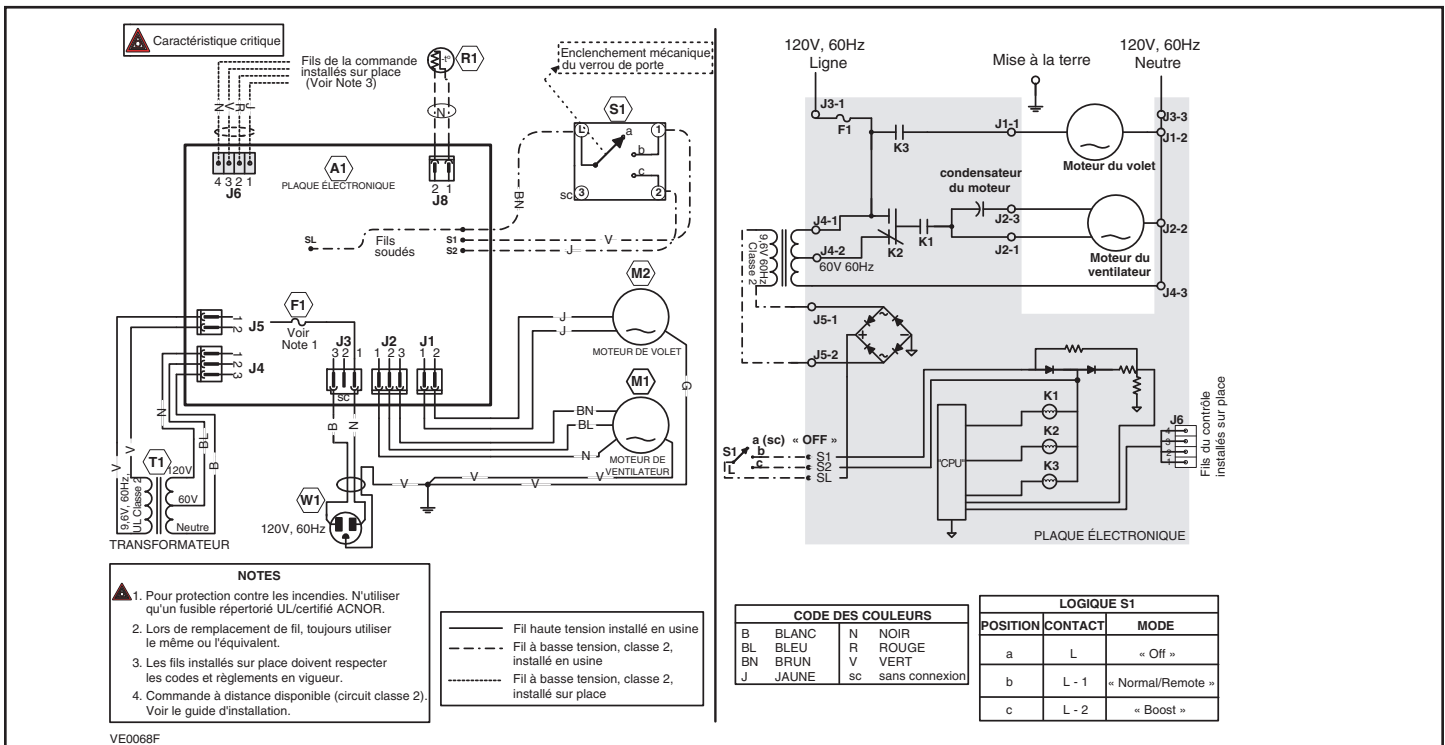
⚠ WARNING

Risk of electric shocks. Before performing any maintenance or servicing, always disconnect the unit from its power source. This product is equipped with an overload protection (fuse). A blown fuse indicates an overload or a short-circuit situation. If the fuse blows, unplug the product from the outlet. Replace the fuse as per the user servicing (follow the marking of products for the proper fuse rating) and verify the product. If the replaced fuse blows, it may be a short-circuit and the product must be discarded or returned to an authorized service center for examination and / or repair.

6.1 HEPA 3.2 WIRING DIAGRAM



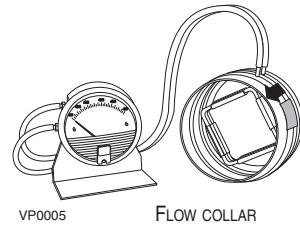
6.2 THH 1.0 WIRING DIAGRAM



7. BALANCING PROCEDURE (THH 1.0 ONLY)

7.1 WHAT YOU NEED TO BALANCE THE UNIT

- A magnehelic gauge capable of measuring 0 to 0.5 inches water gauge (0 to 125 Pa) and 2 plastic tubes.
- Two flow collars (the size will vary depending of duct diameter).

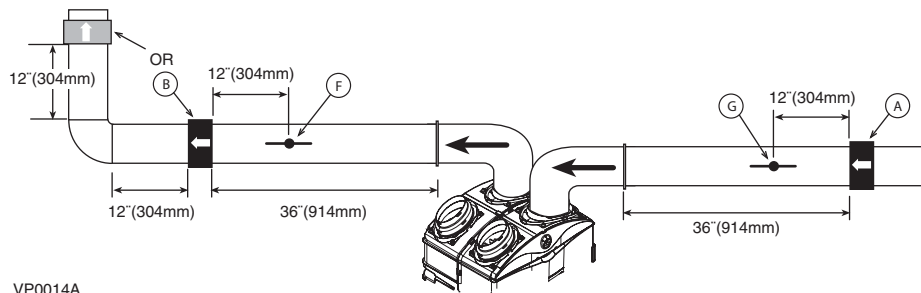


7.2 PRELIMINARY STAGES FOR BALANCING THE UNIT

Seal all the unit ductwork with tape. Close all windows and doors. Turn off all exhaust devices such as : range hoods, dryers and bathroom fans. Make sure balancing dampers are fully open (F and G in figure below).

Choose an appropriate location for the 2 flow collars according to figure below :

- On the exhaust air duct (first measuring location, A)
- On the fresh/filtered air distribution duct (second measuring location, B)
- At least 36" (914 mm) away from the unit; at least 12" (304 mm) before or after 90° elbow and at least 12" (304 mm) away from a register.
- At least 12" (304 mm) away from a balancing damper (F and G in figure below).



7.3 INSTALLATION OF FLOW COLLAR

Insert the flow collars in the ducts at each location (A and B on figure above). Make sure their arrows are pointing in the direction of the air flow. Tape collars in place temporarily.

7.4 BALANCING PROCEDURE

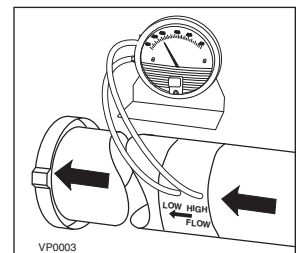
1. Set the unit to high speed.

Make sure that the furnace blower is ON if the installation is in any way connected to the ductwork of the cold air return. If not leave furnace blower OFF.

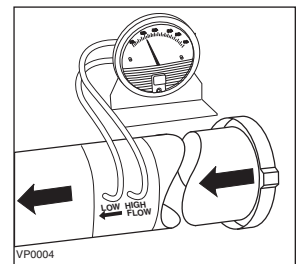
2. Place the magnehelic gauge on a level surface and adjust it to zero.
3. Connect tubing from gauge to flow collar in exhaust air stream (location A in illustration above). Be sure to connect the tubes to their appropriate high / low fitting. If the gauge reading drops to below zero, reverse the tubing connections.

NOTE : It is better to start with the exhaust air flow reading because the exhaust typically has more restriction than the fresh air, especially in cases of stand alone and central draw point installations.

Hold or place the magnehelic gauge upright and level. Record the reading.



4. Move tubing to the other side of the unit (location B in illustration above) and note reading. Adjust the fresh air balancing damper F until the reading at B is approximately the same as the reading at A. If the reading at B is less than the reading at A then go back and adjust the exhaust balancing damper G to equal the fresh air flow.



5. Remove flow collars and reconnect the duct, then, seal with duct tape. Write the required air flow information on a label and stick it near the unit for future reference : (date, maximum speed airflows, your name and phone number and business address).

NOTE :

- Most flow collar kits provide a conversion chart situated on the collar which enables you to convert magnehelic gauge readings to equivalent cfm values.
- A difference of ± 10 cfm (± 0.015 inches water gauge) between the 2 readings is considered balanced.
- If you are using only one flow collar, then, after completing the first reading, transfer this measuring device to the other side of the unit and take the second reading.

8. MAINTENANCE

⚠ WARNING

Risk of electric shocks. Before performing any maintenance or servicing, always disconnect the unit from its power source.

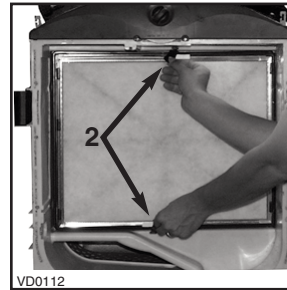
8.1 SEMI-ANNUAL MAINTENANCE (ESSENTIAL)

If your unit is equipped with an optional control (04862 / 05439 or 04391 / 05536 or Altitude or Platinum) you should perform this maintenance when the **Filter Maintenance light is flashing**. Otherwise, this maintenance must be performed every 6 months to ensure your unit proper operation for years to come. Follow these steps :

1. Turn switch knob to OFF to unlock the door.
2. Unlatch the door and open it. Clean the inner side of the door with a clean damp cloth, then wipe with a dry one.
3. Slide out the heat recovery module (THH 1.0 unit only) and the filter cartridge from the unit.



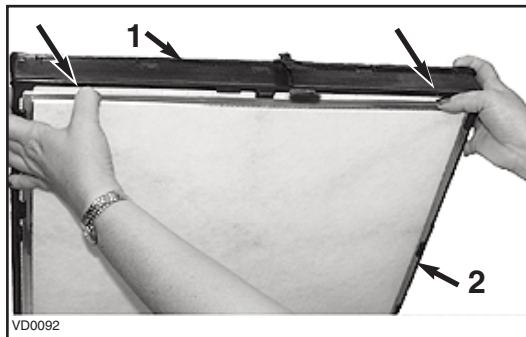
1) HEAT RECOVERY MODULE



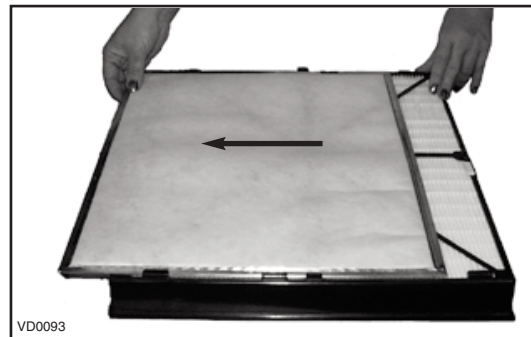
2) TABS

NOTE: To remove the filter cartridge, pull on its tabs (2).

4. Using your thumbs, push on the prefilter side to disengage it from the filter cartridge. Then, slide it out of the filter cartridge and discard it. Install the new prefilter by reversing this operation.



1) FILTER CARTRIDGE
2) PREFILTER



5. Clean the inside walls of the unit with a clean damp cloth, then wipe with a dry one.

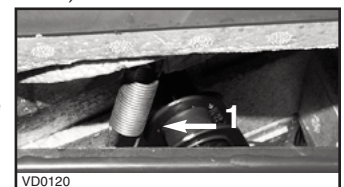
For THH unit only

Wash the 2 core filters under hot water with mild soap. Soak the core in a solution of warm water and mild soap. Rinse the core filters and the core thoroughly and let dry before reinstalling them in the unit.



1) CORE FILTERS
2) CORE

NOTE : Make sure the damper spring (1) is still inside the left front port opening before reinstalling the recovery module.



1) DAMPER SPRING

8. MAINTENANCE (CONT'D)

8.1 SEMI-ANNUAL MAINTENANCE (ESSENTIAL) (CONT'D)

6. Close the door, close the latches and turn ON the switch knob to its previous position.
7. If your unit is equipped with a control (04862 / 05439 or 04391 / 05536), reset the filter maintenance indicator by inserting a small rod (e.g.: paper clip end) into the reset filter hole of the optional control. Press lightly until the Filter Maintenance Indicator light turns off. If your unit is equipped with a Altitude or Platinum wall control, go to page 25 (Reset filter keys).

8.2 ANNUAL MAINTENANCE (ESSENTIAL)

If your unit is equipped with an optional control (04862 / 05439 or 04391 / 05536) you should perform this maintenance when the **Filter Maintenance light stays ON**. Otherwise, this maintenance must be performed once a year to ensure proper operation of your unit for years to come. Proceed as the Semi-annual Maintenance (Section 8.1), but instead of replacing the prefilter (point 4), discard the complete HEPA Filter cartridge (including prefilter). Install a new HEPA filter cartridge (or a new pleated filter cartridge) with a new prefilter on it.

8.3 MASTER RESET (EXCEPT FOR ALTITUDE OR PLATINUM CONTROLS)

Use the master reset only if you replace the filters before the annual maintenance indicator is on. By inserting a small rod (e.g.: paper clip end) for 5 seconds or more into the reset filter hole of the optional control, a master reset will be done and both biannual and annual maintenance filter are reset.

04862 / 05439 Control : The filter maintenance indicator will flash 1/4 second if the control is on Normal or Boost position.

04391 / 05536 Control : If the control is in "Off" position, "Fresh air" light indicator will flash for 1 second. If the control is in "Normal" or "Boost" position, the unit motor, the "Fresh air" light indicator and speed light indicator ("Normal" or "Boost") will turn off for 3 seconds. If the control is in "Recirculation" position, the "Recirculation" light indicator and the unit motor will turn off for 3 seconds.

9. PARTS ORDERING CHART

NO. DESCRIPTION	PART NUMBER	VENMAR HEPA 3.2	VÄNEE HEPA 3.2	VENMAR THH 1.0	VÄNEE THH 1.0
1- Prefilter Kit (2)	05123	1	1	1	1
2- HEPA Pleated Filter Kit	04803	1	1	1	1
3- Control*	04862	1	-	-	-
4- Control*	05439	-	1	-	-
5- Control*	04391	-	-	1	-
6- Control*	05536	-	-	-	1
7- Altitude Control*	40440	-	-	1	-
8- Platinum Control*	40460	-	-	-	1

*Items 3 through 8 are optional.

All listed parts are available where you bought your unit.

NOTE : Please note that parts not listed are not available; those parts require assembly knowledge that only manufacturer can guarantee.

REPLACEMENT PARTS AND REPAIR:

In order to ensure your ventilation unit remains in good working condition, you must use the manufacturer genuine replacement parts only. The manufacturer replacement parts are specially designed for each unit and are manufactured to comply with all the applicable certification standards and maintain a high standard of safety. Any third party replacement part used may cause serious damage and drastically reduce the performance level of your unit, which will result in premature failing. The manufacturer recommends to contact a certified service depot for all replacement parts and repair.

10. TROUBLESHOOTING

PROBLEMS	SOLUTIONS
1. Unit does not start at Normal or Boost position.	<ul style="list-style-type: none">• Check breaker or fuse in main distribution panel.• Check there is 120V at the electrical outlet.• Make sure the unit main switch is properly set in Normal or Boost position.• If a control is connected, disconnect control wire from the unit, then make sure the unit main switch is properly set in Normal position.
2. Unit does not run at Normal speed, but runs at Boost.	<ul style="list-style-type: none">• If a control is used, disconnect control wire from the unit. Then, if the unit runs at Normal speed, check control wiring and control connections.
3. Unit is not operating as per the selected mode.	<ul style="list-style-type: none">• Check if the unit main switch is in "Normal/Remote" position.• Check control wiring.
4. Control indicators do not work properly or not at all.	<ul style="list-style-type: none">• Check control wiring.
5. On 04391 / 05536 control only, 1 or 2 light indicators flash every second.	<ul style="list-style-type: none">• Check if the unit main switch is in "Normal/Remote" position.• Check control wiring.

10. TROUBLESHOOTING (CONT'D)

PROBLEMS	SOLUTIONS
6. There is no outside temperature displayed on Platinum or Altitude control. ■■■.	<ul style="list-style-type: none"> Replace the unit thermistor. <p>NOTE : At his very start-up or after a power failure, it takes some minutes on Platinum before the outside temperature appears on screen. The delay duration on Altitude depends on which operation mode the control is set. The shortest control screen. delay is obtained when the control is set on MIN or MAX in VENT Mode.</p>
7. The error code E1, E3 or E4 is displayed on the Platinum or Altitude control screen.	<ul style="list-style-type: none"> Contact your installer.
8. Nothing works.	<ul style="list-style-type: none"> See if the unit is plugged in. See if the unit is receiving power from the house circuit fuse.
9. Condensation on windows (Air too humid).	<ul style="list-style-type: none"> Set the unit at high speed during activities generating excess humidity (family gatherings, extra cooking, etc.). Leave curtains half-open to allow air circulation. Store all firewood in a close room with a dehumidifier or in a well ventilated room, or store the wood outside. Keep the temperature in your house above 18°C (64°F).
10. Air too dry.	<ul style="list-style-type: none"> Using integrated control, set the unit at low speed. Temporarily switch to the Intermittent mode. Temporarily use a humidifier.
11. Air too cold at the air supply grille.	<ul style="list-style-type: none"> Make sure the outside ports are not blocked. Set the unit at minimum speed (MIN.) Make sure that the unit is balanced. Have the unit defrost system checked. Install a duct heater.

If the problem is still not solved, call your installer or the nearest approved Service Center.

Also, you can reach the Customer Service Department at the following toll free telephone number : 1-800-567-3855.

11. WARRANTY

WARRANTY

Venmar Ventilation inc. and vänEE Canada warrant to the original consumer purchaser of their products, that such products will be free from defects for a period of two (2) years, from date of original purchase.

THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. VENMAR VENTILATION INC. AND VÄNEE CANADA WILL NOT BE HELD RESPONSIBLE FOR ANY CLAIMS OVER THE ORIGINAL PURCHASE PRICE OF A **WHOLE-HOUSE HEPA AIR PURIFIER SYSTEM**, NOR HELD RESPONSIBLE FOR SUBSEQUENT DAMAGE OR INCIDENT.

During the period stated above, Venmar Ventilation Inc. or vänEE Canada will, at their opinion, repair or replace, without charge, any product or part which is found to be defective under normal use and service. THIS WARRANTY DOES NOT EXTEND TO ANY CORE FILTERS (THH 1.0 MODELS ONLY) FILTER AND PREFILTER. This warranty does not cover **a)** normal maintenance and service, **b)** any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repairs made by other than Venmar Ventilation inc. or vänEE Canada or **c)** a faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the 2-year period as specified for the express warranty. Some states or provinces do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

VENMAR'S OR VÄNEE'S OBLIGATION TO REPAIR OR REPLACE AT VENMAR'S OR VÄNEE'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. VENMAR VENTILATION INC. AND VÄNEE CANADA WILL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE. SOME STATES OR PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights and you may also have other rights, which vary from province to another. This warranty supersedes all prior warranties.

To contact warranty service call 1-800-567-3855. In order to qualify for a warranty claim, the owner of a Venmar or vänEE whole-house HEPA air purifier system must have the model and serial number along with a proof of the original purchase date. In each case, costs for the removal of a defective part (and/or unit) and installation of a new or repaired one and travel costs are not covered by this warranty.

VVI, 550 Lemire Blvd., Drummondville, Qc Canada J2C 7W9