

Prodigy™

Ventech™ Type 1 Hood With Condensation

VH-10

VH-20



MN-48003-EN

REV.03
11/23

EN

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Manufacturer's Information

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Manufacturer

Alto-Shaam, Inc.

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Menomonee Falls, WI 53052

Original instructions

The content in this manual is written in American English.

Enjoy your Ventech™ Type 1 Hood with Condensation!

The Alto-Shaam Ventech and Ventech Plus™ condensation hoods are world-class hoods used to condense steam when being used with Alto-Shaam Prodigy™ Steamer Ovens. The hoods include washable, reusable filters, and two disposable charcoal filters. The hoods may be installed in the field or installed at the factory at the time of oven purchase.

Extend Your Manufacturer's Warranty

Register

Register your Alto-Shaam appliance online. Registering your appliance ensures prompt service in the event of a warranty claim.

Your personal information will not be shared with any other company.

alto-shaam.com/warranty

Alto-Shaam 24/7 Emergency Repair Service

Call

Call 800-558-8744 to reach our 24-hour emergency service call center for immediate access to local authorized service agencies outside standard business hours. The emergency service access is provided exclusively for Alto-Shaam equipment and is available throughout the United States through Alto-Shaam's toll free number.

Availability

Emergency service access is available seven days a week, including holidays.

FOREWORD

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The Meaning of Signal Words

This manual contains signal words where needed. These signal words must be obeyed to reduce the risk of death, personal injury, or equipment damage. The meaning of these signal words is explained below.

**DANGER**

Danger indicates a hazardous situation which, if not avoided, will result in serious injury or death.

**WARNING**

Warning indicates a hazardous situation which, if not avoided, could result in serious injury or death.

**CAUTION**

Caution indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Notice indicates a situation which, if not avoided, could result in property damage.



NOTE: Note indicates additional information that is important to a concept or procedure.

Appliance Description and Intended Use

Ventech™

The Ventech™ Type 1 hood captures oven exhaust, residual smoke, and grease-laden vapor produced by the cooking process. Steam is condensed out of escaping oven air through an active heat exchanger (coil). The Ventech hood includes both grease and charcoal filters as standard. An optional condenser assembly is available for added steam treatment when the door is opened.

The Ventech hood is a true Type 1 hood, KNLZ UL Category:

- The angled (45°) filters meet UL 710B;
- the grease filters are UL 1046 compliant;
- and the safety interlocks are UL 353 compliant. The safety interlocks disable the heating elements upon the removal of the filters or when reduced air flow is detected—indicating a clogged filter.

Utilizing a blower fan rated up to 880 CFM, the Ventech hood operates throughout oven operation, detecting higher volumes of oven exhaust and adjusting its performance accordingly.

The Ventech hood functions in a stacked configuration or on a single oven, and can be installed at the factory or in the field.

Configurations

The Ventech hood is available in two configurations. The VH-10 is sized for narrow Prodigy™ ovens (6-10 and 10-10), while the VH-20 is sized for full-size Prodigy ovens (7-20 and 10-20).

The Ventech Plus™ hood includes an integrated HEPA filter for increased air purification. This accessory is available for both VH-10 and VH-20 hoods.

Intended use

The Ventech hoods are intended to capture steam, residual smoke, and grease-laden vapor when used on Alto-Shaam® Prodigy ovens. Any other use is prohibited.

Residual risks

The Ventech hoods are manufactured using ISO-certified processes and are designed with maximum safety in mind; however, there are residual risks to operators of the hoods. Residual risks include possible exposure to heat, grease, and steam.

Possible misuse

Misuse of the Ventech hoods includes operating them without the designated filters installed in the designated operating positions. Furthermore, misuse includes disabling the safety-interlock system. Misuse also includes using the Ventech hoods with any appliance that is able to operate as a smoker, or with any appliance that is gas-fired. The Ventech hoods are not intended to exhaust smoke from a smoking operation or the by-products of combustion.

Safety Precautions

- Before you begin** Read and understand all instructions in this manual.
-
- Electrical precautions** Obey these electrical precautions when using the appliance:
- Only use the appliance when it is properly installed and connected to an Alto-Shaam oven.
 - Be sure that the wiring and breaker are the correct size and rating before using the appliance. This appliance may add to the power requirements of the oven it is connected to.
-
- Usage precautions** Obey these usage precautions when using the appliance:
- Only use this appliance for its intended use.
 - Use caution when using the appliance. Floors adjacent to the appliance may become slippery.
 - Do not cover or block any of the openings of this appliance.
 - Do not use this appliance near water such as a sink, in a wet location, near a swimming pool, or similar locations.
-
- Maintenance precautions** Obey these maintenance precautions when maintaining the appliance:
- Obey precautions in the manual, on tags, and on labels attached to or shipped with the appliance.
 - Only use the appliance when all filters are in place and functioning properly.
 - Only clean the appliance when the power is disconnected.
 - Do not store the appliance outdoors.
 - Do not clean the appliance with metal scouring pads.
 - Do not use corrosive chemicals when cleaning the appliance.
 - Do not use a hose or water jet to clean the appliance.
 - Do not use any portion of the appliance for storage.

Operator training

All personnel using the appliance must have proper operator training. Before using the appliance:

- Read and understand the operating instructions contained in all the documentation delivered with the appliance.
 - Know the location and proper use of all controls.
 - Keep this manual and all supplied instructions, diagrams, schematics, parts lists, notices, and labels with the appliance if the appliance is sold or moved to another location.
 - Contact Alto-Shaam for additional training if needed.
-

Operator qualifications

Only trained personnel with the following operator qualifications are permitted to use the appliance:

- Have received proper instruction on how to use the appliance.
- Have demonstrated their ability with commercial kitchens and commercial appliances.

The appliance must not be used by:

- Persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the appliance by person responsible for their safety.
 - People impaired by drugs or alcohol.
-

- Children should be supervised to ensure that they do not play with the appliance.
 - Children shall neither clean nor maintain the appliance.
-

Condition of appliance

Only use the appliance when:

- All controls operate correctly.
 - The appliance is installed correctly.
 - The appliance is clean.
 - The appliance labels are legible.
-

Servicing the appliance

- Only trained personnel are permitted to service or repair the appliance. Repairs that are not performed by an authorized service partner or trained technician, or the use of non-factory parts, will void the warranty and relieve Alto-Shaam of all liability.
 - To prevent serious injury, death or property damage, have the appliance inspected and serviced at least every twelve (12) months by an authorized service partner or trained technician.
 - Contact Alto-Shaam for the authorized service partner in your area.
-

Sound power

The maximum A-weighted sound pressure level: 68 dB(A).

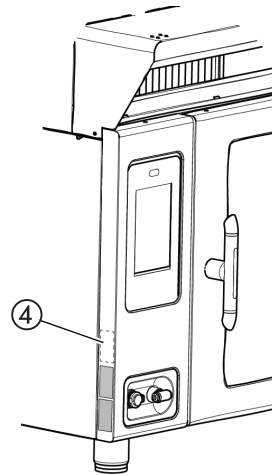
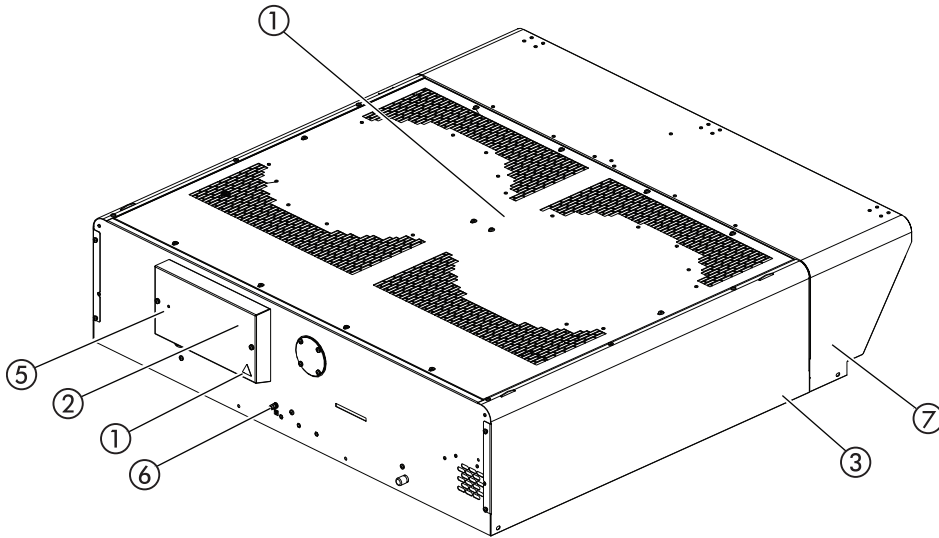
Personal Protective Equipment (PPE)

Wear the following Personal Protective Equipment (PPE) while cleaning the appliance:

- Protective gloves
- Protective clothing
- Eye protection
- Face protection

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Label Locations



AS-PHD-008916

LABELS

1

⚠ WARNING/ADVERTENCIA/AVERTISSEMENT

Electric Shock Hazard
To reduce the risk of electric shock, do not remove or open cover. No user-serviceable parts inside. Refer servicing to qualified personnel. Qualified personnel: Disconnect power before servicing.

Peligro de descarga eléctrica
Para reducir el riesgo de descarga eléctrica, no retire ni abra la cubierta. No hay piezas en el interior a la que se les pueda realizar mantenimiento. Derive el mantenimiento a personal calificado. Personal calificado: Desconecte la energía antes de realizar mantenimiento.

Danger de décharge électrique
Pour réduire le risque de décharge électrique, ne par ouvrir ni retirer le capot. Ne contient pas de pièces réparables par l'utilisateur. Confier les réparations à du personnel qualifié. Personnel qualifié : Sectionnez l'alimentation avant toute intervention.

LA-38950



WARNING

Electric shock hazard

To reduce the risk of electric shock, do not remove or open the cover. No user-serviceable parts inside. Refer servicing to qualified personnel. Qualified personnel: Disconnect power before servicing.

2

WARNING
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE FUSES WITH MAX AMP FUSE AS MARKED ON FUSE HOLDER.

ADVERTENCIA
PARA OBTENER UNA PROTECCIÓN CONTINUA CONTRA RIESGO DE INCENDIOS Y DESCARGA ELÉCTRICA. REEMPLACE LOS FUSIBLES CON UN FUSIBLE DE AMPERAJE MÁX. COMO SE INDICA EN EL PORTAFUSIBLES.

AVERTISSEMENT
POUR PROTÉGER EN PERMANENCE CONTRE LE RISQUE D'INCENDIE ET DE DÉCHARGE ÉLECTRIQUE. REMPLACER LES FUSIBLES PAR DES MODÈLES DE L'AMPERAGE MAXIMAL MARQUÉ SUR LE PORTE-FUSIBLE.

2A	3A	5A	6.3A	8A	10A	12A	15A	20A	25A	30A	4A
----	----	----	------	----	-----	-----	-----	-----	-----	-----	----

LA-46673

WARNING

For continued protection against risk of fire and electrical shock, replace fuses with maximum amperage fuse as marked on fuse holder.

3

⚠ WARNING/ADVERTENCIA/AVERTISSEMENT

Fire Hazard
For use only on noncombustible surfaces. Maintain the correct clearances to combustibles.

Peligro de incendio
Solo para uso en superficies no combustibles. Mantenga las distancias correctas de elementos combustibles.

Risque d'incendie
Utilisation sur des surfaces non combustibles seulement. Maintenir des dégagements corrects par rapport aux matières combustibles.

	Combustibles	Non-combustibles
Top/rope/haut	20" (508mm)	20" (508mm)
Left/izquierda/gauche	0" (0mm)	0" (0mm)
Right/derecho/droite	2" (51mm)	0" (0mm)
Rear/posterior/arrière	4" (102mm)	4" (102mm)

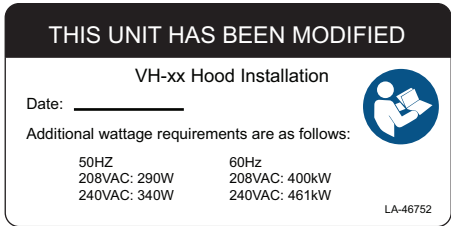


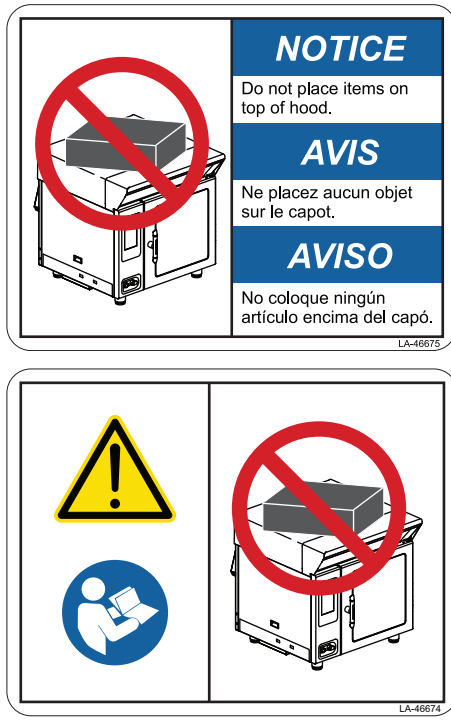
LA-38906

LA-46755

WARNING

Fire hazard

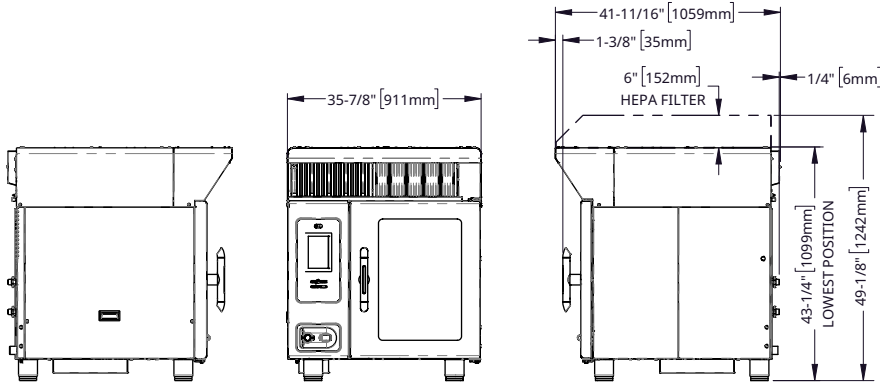
For use only on noncombustible surfaces. Maintain the correct clearances to combustibles.

<p>4</p>		<p>This unit has been modified. Additional wattage requirements as follows. Read the instruction manual. (Not used on all units.)</p>
<p>5</p>		<p>Ground terminal</p>
<p>6</p>		<p>CE-approved appliances include an equipotential-bonding terminal marked with the symbol shown on the left. Provisions for earthing are to be made in accordance with IEC:2010 60335-1 section 27 or local codes.</p>
<p>7</p>		<p>NOTICE Do not place items on top of hood.</p>

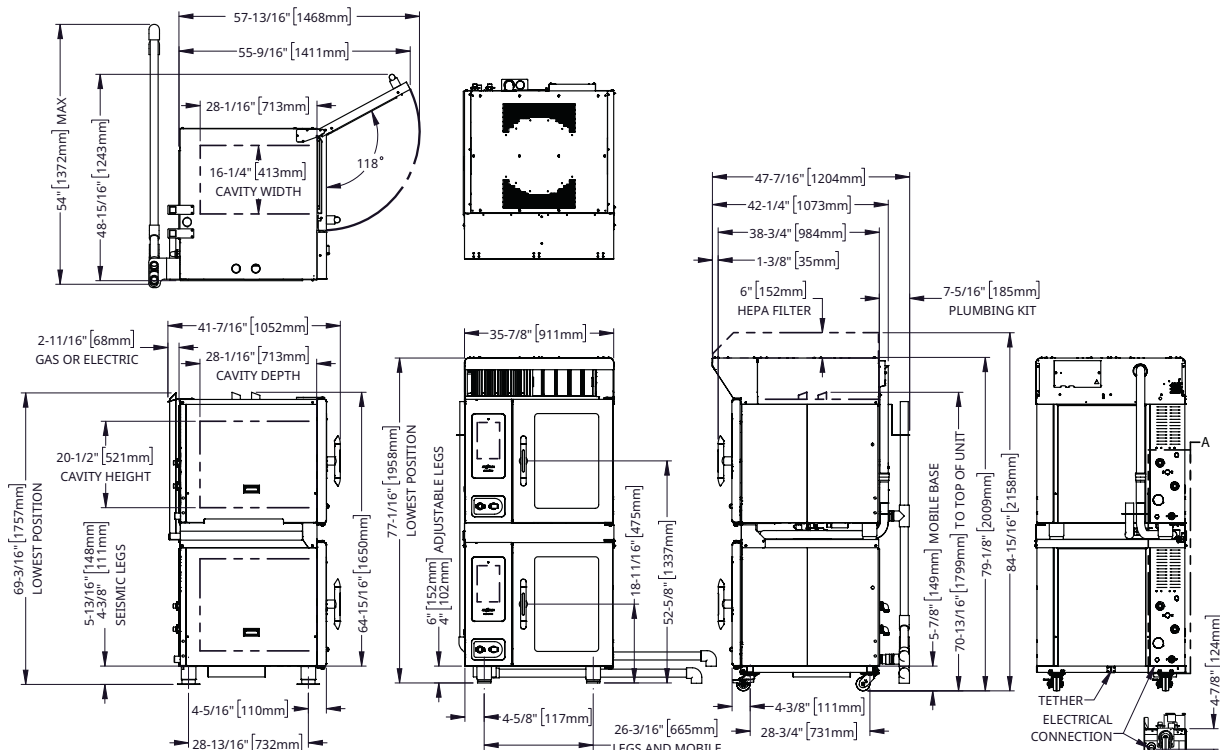
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Dimension Drawings

Prodigi™ 6-10 with VH-10 Hood

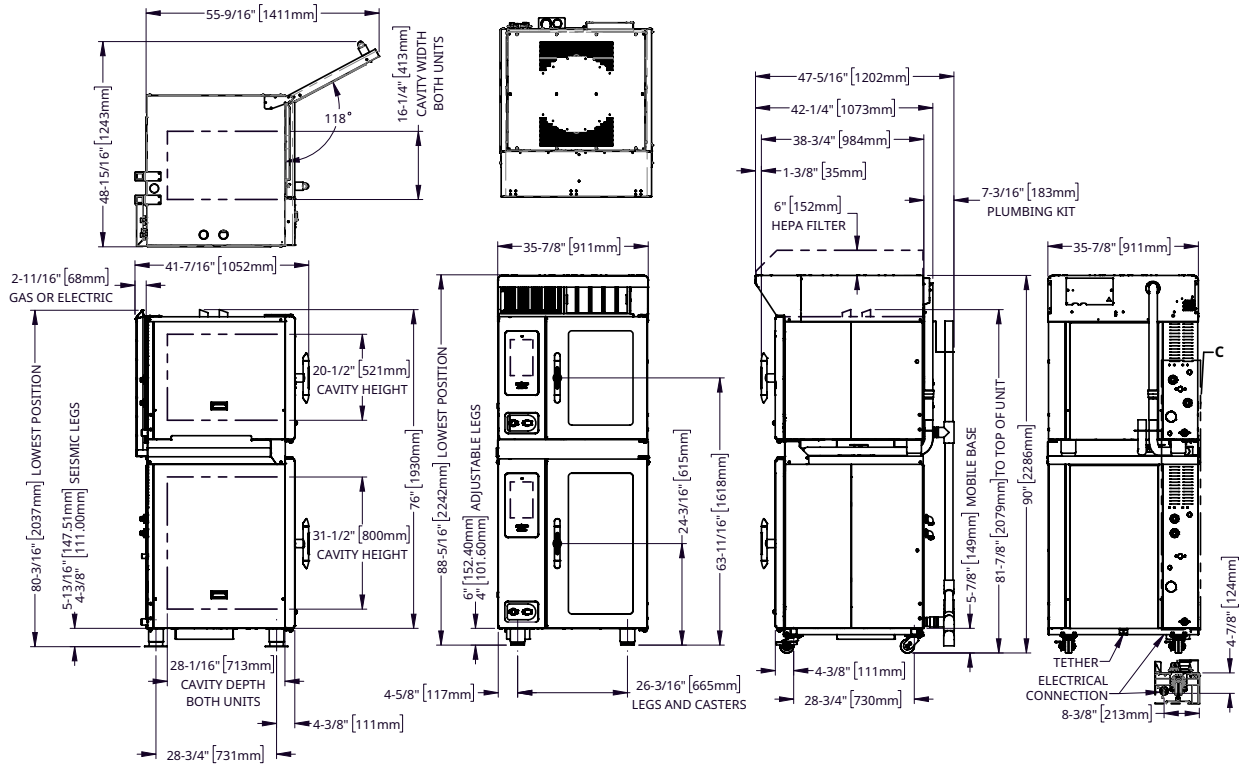


Prodigi™ 6-10 with VH-10 Hood over 6-10

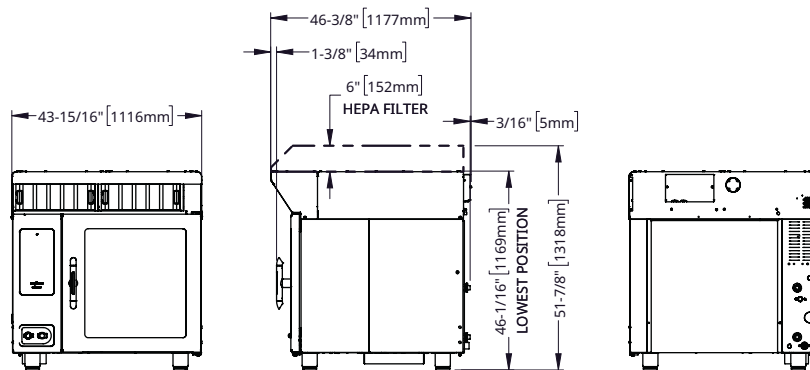


INSTALLATION

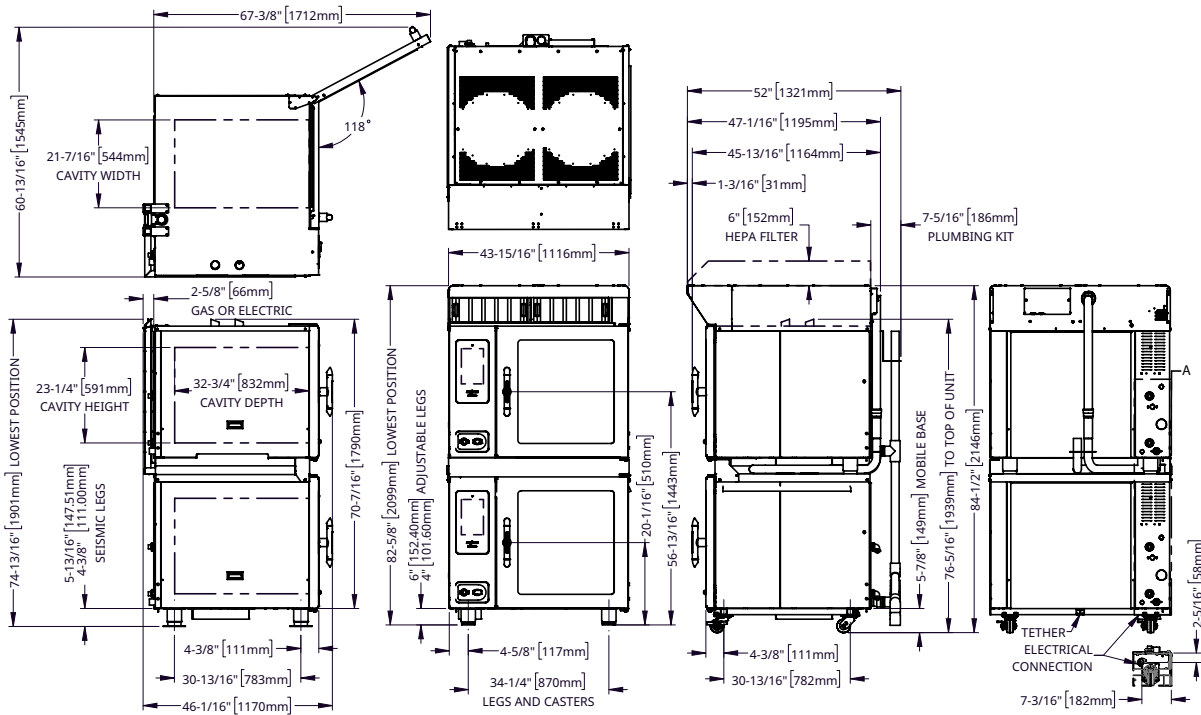
Prodigi™ 6-10 with VH-10 Hood over 10-10



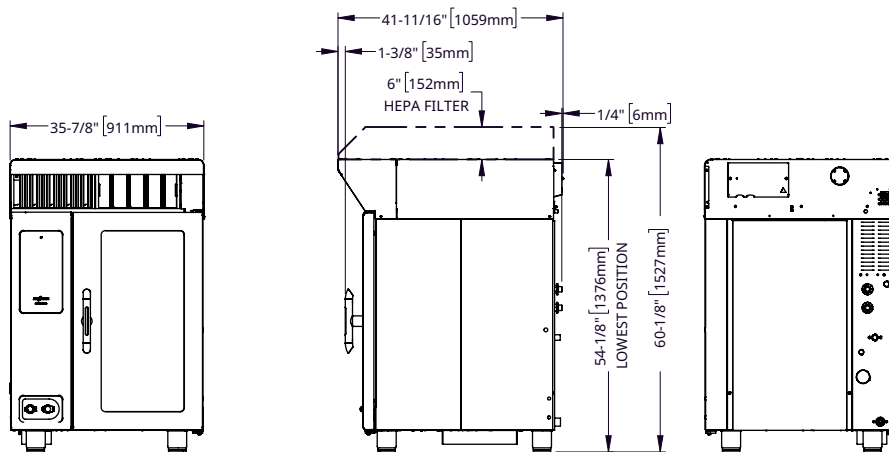
Prodigi™ 7-20 with VH-20 Hood



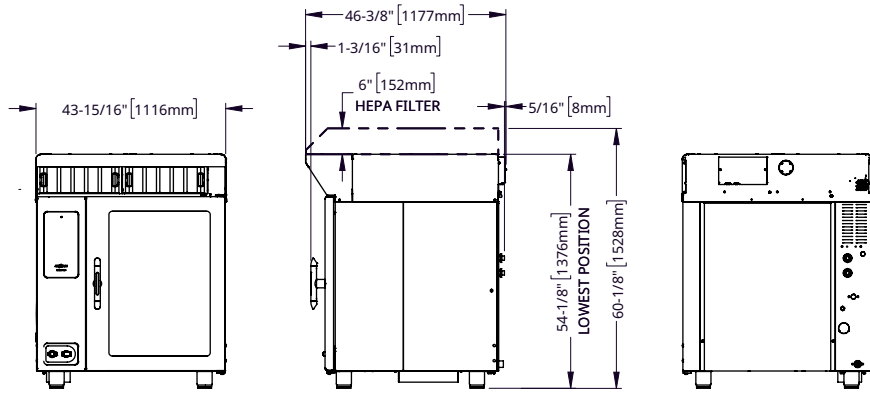
Prodigi™ 7-20 with VH-20 Hood over 7-20



Prodigi™ 10-10 with VH-10 Hood



Prodigi™ 10-20 with VH-20 Hood



Pre-Installation Checklist

Installation of the hood is to be completed only by an authorized Alto-Shaam service partner.

Place this form with the oven's records.



WARNING: Electric shock and arc flash hazard.
Use caution when measuring line voltage and line current.
Wear Personal Protective Equipment (PPE).

Location Information

Installation date:	Start up date:
Location name:	Location address:
Contact name:	
Contact phone number:	Number of ovens to be installed:
Contact email:	Oven model number(s):
IT Administrator name: (if applicable)	Oven serial number(s):
Phone number:	Oven rated voltage:

Pre-Installation Company Information

Company name:	Mailing address:
Technician name:	
Technician phone number:	Technician email:
Date of Site Survey:	

Clearance	Record	Pass	Fail
Measure door/entry way clearance (smallest dimension)			
Measure path clearance (smallest dimension)			
Elevator opening, if applicable (smallest dimension)			
Elevator interior dimensions, if applicable (HxWxD)			
Oven Clearance Right side:			
Rear:			
Left side:			
Top:			
Is there a sprinkler head above the location where the hood will be installed?	Yes / No		
Based on the oven's designated spot in the kitchen, is the oven accessible for service?	Yes / No		
If NO, comment on the issue:			
Other comments:			

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Electrical

Alto-Shaam oven ratings	Breaker:	Voltage:	Phase:	
The following fields must be completed by the service technician on site.				
What is the measured voltage at the site?	L1-N:	L2-N:	L3-N:	L1-L2:
	L2-3:	L1-L3:	Pass	Fail
What is the on-site breaker size supplying power to the oven(s)?	Size:		Pass	Fail
Is there a disconnect or junction box within 3' (914mm) of where the oven(s) will be installed?	Pass	Fail		

Comments:

Other site information

Does the designated location for the oven have a level surface, i.e., no more than 1.5" (38mm) change in elevation from its highest to lowest surface point?	Pass	Fail
Is there a floor drain within 3' (1m) of where the appliance will be installed?	Pass	Fail
Is the ambient temperature range of the site 60°F - 110°F (16°C - 43°C)?	Pass	Fail
Is the site 100% ready for oven(s) installation?	Pass	Fail
Is site action required?	Pass	Fail

Action required:

Contact the Alto-Shaam Technical Service department if the site is not ready for the installation.

Continued on next page

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Please provide a copy of this document to an on-site manager.

Service company name:

Service company number:

Model of oven(s) to be installed:

The site is ready for installation of the oven(s); planned install location passes inspection. Once the oven(s) arrive at the site (or the delivery date is certain), please contact the service company listed above to schedule the installation.

The site is NOT ready for installation of the oven(s); planned install location needs the following changes made before installation can proceed:

On-site manager should make the necessary contacts to move forward with these changes as soon as possible. If there are any questions, please contact Alto-Shaam Technical Service Department at 800-558-8744 ext. 6702. Or, review documentation regarding the equipment at www.alto-shaam.com/en/resource-library.

Once the necessary site changes have been made and the oven(s) have arrived (or the delivery date is certain), please contact the service company listed above to schedule the installation.

Technician name and signature:

On-site manager name and signature:

Post-Installation Checklist

Installation of the oven is to be completed only by an authorized Alto-Shaam service partner.

Place this form with the oven's records.



WARNING: Electric shock and arc flash hazard.
Use caution when measuring line voltage and line current.
Wear Personal Protective Equipment (PPE).

Location Information

Location name:	Site contact name:
Location address:	Site contact phone number:
Location city:	Site contact email:
Location state and zip code:	

Post-Installation Company Information

Company name:	Technician name:
Mailing address:	Technician phone number:
City:	Contact email:
State and zip code:	Date of installation:

Ventech™ Information

Model number(s) of Ventech hood installed	VH-20	VH-10
Serial number(s) of Ventech hood installed		

Clearance

Hood clearance	Right side	Pass	Fail
	Left side	Pass	Fail
	Rear	Pass	Fail
	Top	Pass	Fail
Is the drain hose secure in place and routed to a drain?	Yes	No	
Is the hood accessible for service?	Yes	No	

If NO, comment on the issue:

Other comments:

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Ventech™ Hood Function Test

1.	With the oven(s) powered off, remove the left side panel from the (top) oven. Open the electrical box on the hood.		
2.	Attach an amp clamp around the L1 power wire to the hood (consult the electrical schematic for the wire location).		
3.	Supply electrical power to the top oven only. Press the oven power button. Confirm that the oven starts properly. When the oven cavity lights turn on the hood will perform a 30 second self-test.		
4.	Feel for airflow from the top of the hood to confirm the correct fan(s) rotation		
5.	Measure and record the voltage to the hood.	Voltage:	
6.	Measure and record the amperage to the hood.	High speed target:	1.4-1.9A
7.	When the self-test is complete, measure and record the amperage to the hood	Low speed target:	0.8-1.3A
8.	STACK OVENS Supply electrical power to the bottom oven. Press the oven power button. Confirm that the oven starts properly.		
9.	Set and start the top oven to a convection cook at 350°F for 00:02:30 minutes.		
10.	Before 00:01:59 open the oven door. Do the fan(s) go to high speed?	Yes	No
11.	Close the oven door. Do the fan(s) go to low speed?	Yes	No
12.	When the cook cycle reaches 00:01:59, the fan(s) will switch to high speed. TEST LEFT FILTER SWITCH Remove the left grease filter from the hood. Confirm that error codes E101 or E102 display (on both ovens). Reinstall the grease filter. Clear the error codes.		
13.	TEST RIGHT FILTER SWITCH E101 and E102 are fatal errors. The oven cook cycle will need to be restarted. Set and start the top oven to a convection cook at 350°F for 00:02:30 minutes. When the cook cycle reaches 00:01:59, the fan(s) will switch to high speed. Remove the right grease filter from the hood. Confirm that error codes E101 or E102 display (on both ovens). Reinstall the grease filter. Clear the error codes.		
14.	Set and start the top oven to a convection cook at 350°F for 00:02:30 minutes. Allow the cook cycle to complete.		
15.	At the end of the cook cycle, the oven will indicate the cook cycle is complete. Open the oven door. Does the fan(s) remain in high speed?	Yes	No
16.	Close the oven door. Do the fan(s) go to low speed?	Yes	No

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STACKED OVENS

17.	Set and start the bottom oven to a convection cook at 350°F for 00:02:30 minutes.	Yes	No
18.	Before 00:01:59 open the oven door. Do the fan(s) go to high speed?	Yes	No
19.	Close the oven door. Do the fan(s) go to low speed?	Yes	No
20.	When the cook cycle reaches 00:01:59, the fan(s) will switch to high speed. Allow the cook cycle to complete.		
21.	At the end of the cook cycle, the oven will indicate the cook cycle is complete. Open the oven door. Does the fan(s) remain in high speed?	Yes	No
22.	Close the oven door. Do the fan(s) go to low speed?	Yes	No

Installation Complete

Clean up job site	
Wipe down and clean exterior of oven and hood	
Take picture(s) of complete drain run	
Take picture(s) of hood in place with surrounding equipment	

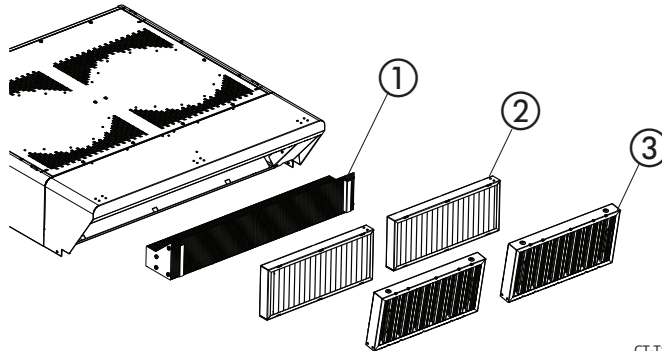
Has the customer been notified of any issues with the installation?	Yes	No
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Customer Signature

Technician Signature

Ventech™ Component Identification

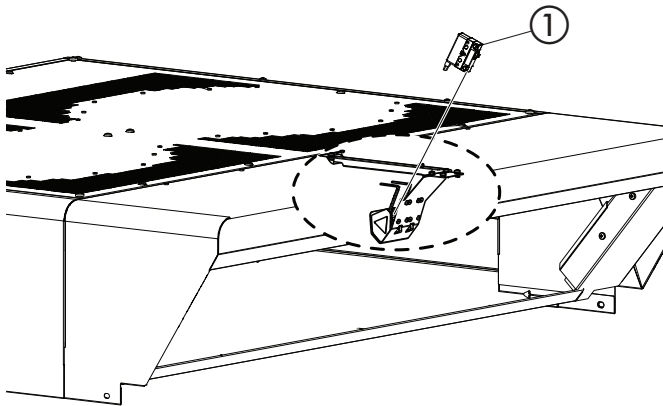
Filters



CT-TS-009177

Item	Description	Quantity
1	Condenser, VH-10 (optional)	1
	Condenser, VH-20 (optional)	2
2	Charcoal filter	2
3	Grease filter	2

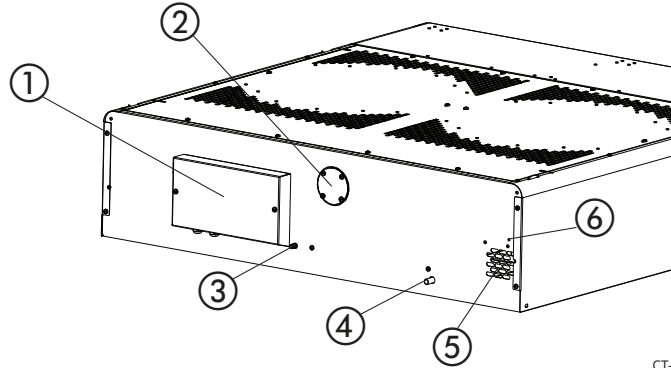
Filter Switches



CT-TS-009179

Item	Description	Quantity
1	Filter switches	2

Back Panel



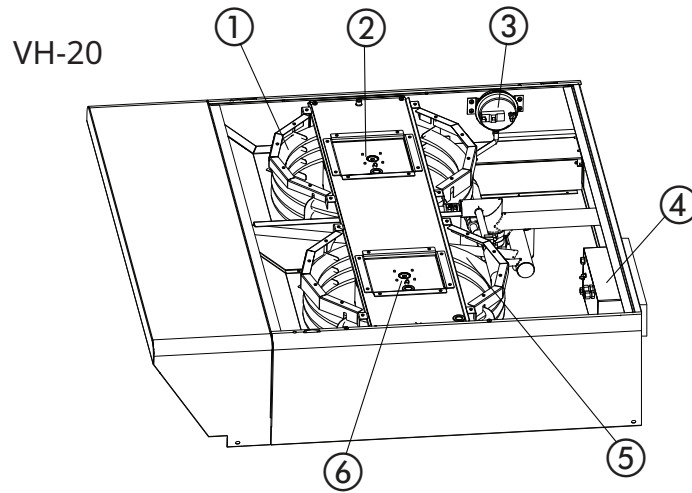
CT-TS-009181

Item	Description	Quantity
1	Electrical box / Schematic guide	1
2	Bottom oven vent pipe connection	1
3	Equipotential bonding terminal	1
4	Drain	1
5	Opening for top oven — forward vent pipe	1
6	Atmospheric port — differential pressure switch	1

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Internal Components



CT-TS-009183

Item	Description	Quantity
1	Condensing coil 1	1
2	Fan motor 1	1
3	Differential pressure switch (UL-versions only)	1
4	Electrical box	1
5	Condensing coil 2 — VH-20 stacked ovens only	1
6	Fan motor 2 — VH-20 only	1

How to Install the Option Board (OB)

Before you begin



WARNING: Electric shock hazard.

Disconnect the electric power from the oven before installing the option board.



NOTE: These instructions are specifically made for Prodigy ovens without an Option Board.

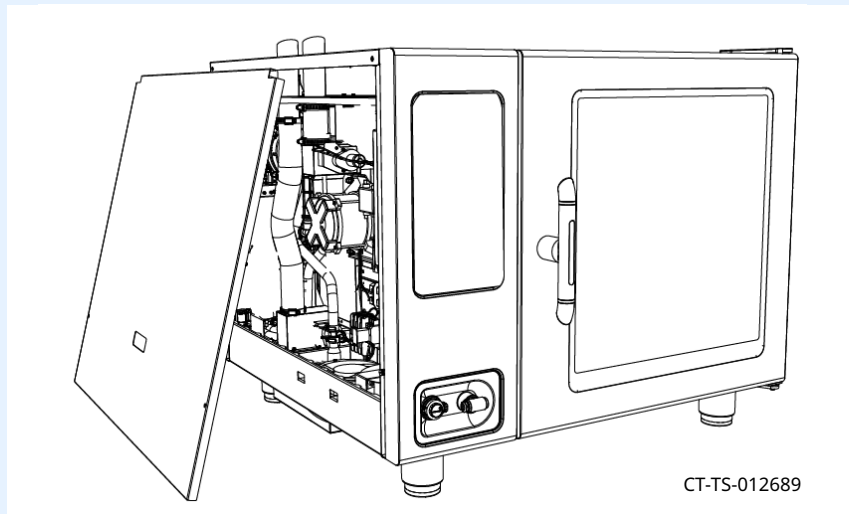
- Wear personal protective equipment (PPE)

Prepare the oven

To prepare the oven, do the following.

Step	Action
------	--------

- | | |
|----|--|
| 1. | Remove the left side service panel. |
|----|--|

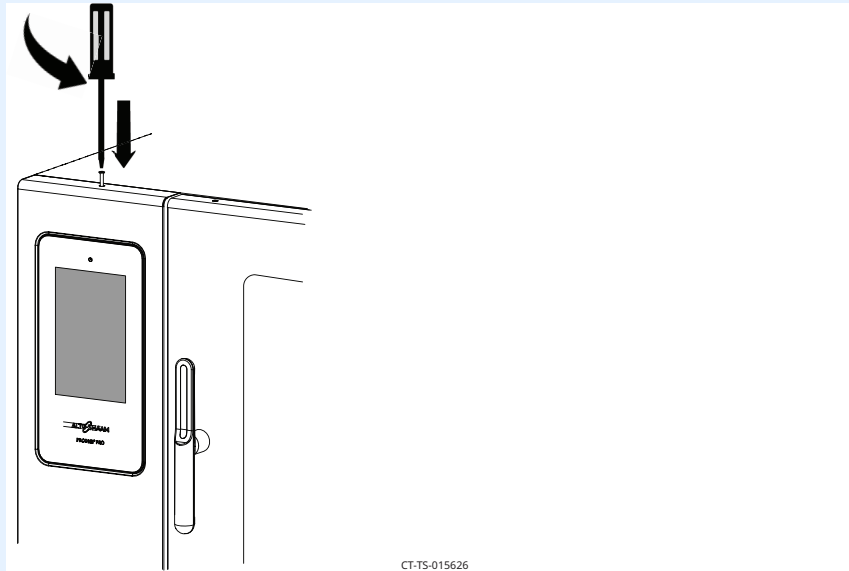


CT-TS-012689

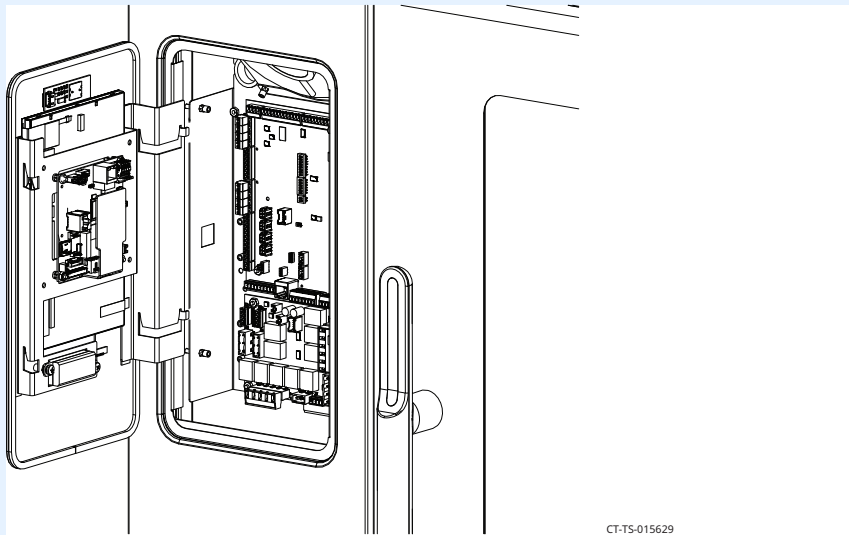
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2. **Turn** the screw of control panel counterclockwise to unlock it.



3. **Maneuver** the control panel away from the oven.
Hang the control panel on the hooks.

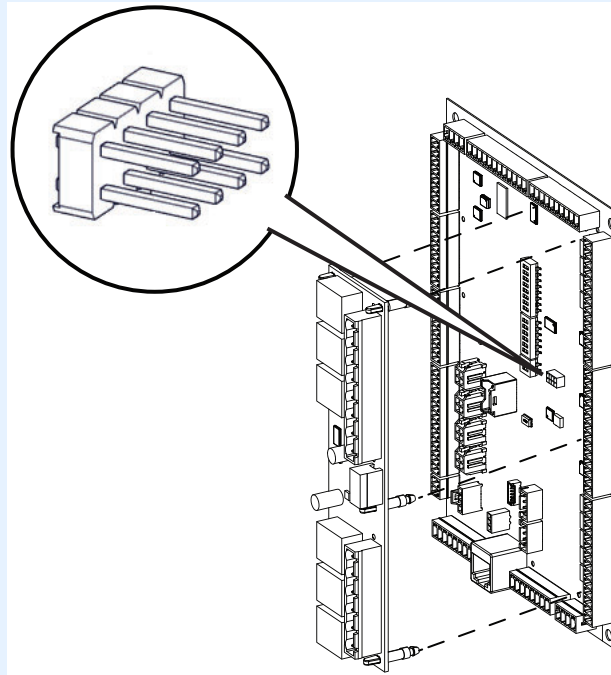


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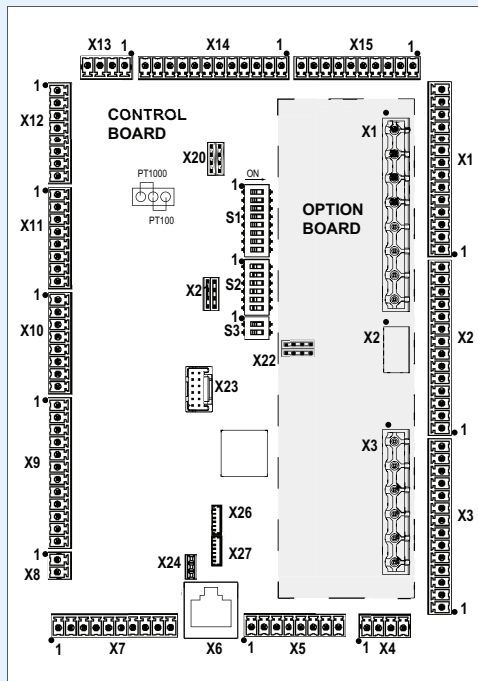
Install the option board

4. **Line up** the pins on the option board to the socket on the control board.



CT-TS-015632

5. **Gently push** the option board spacers into the holes in the control board.

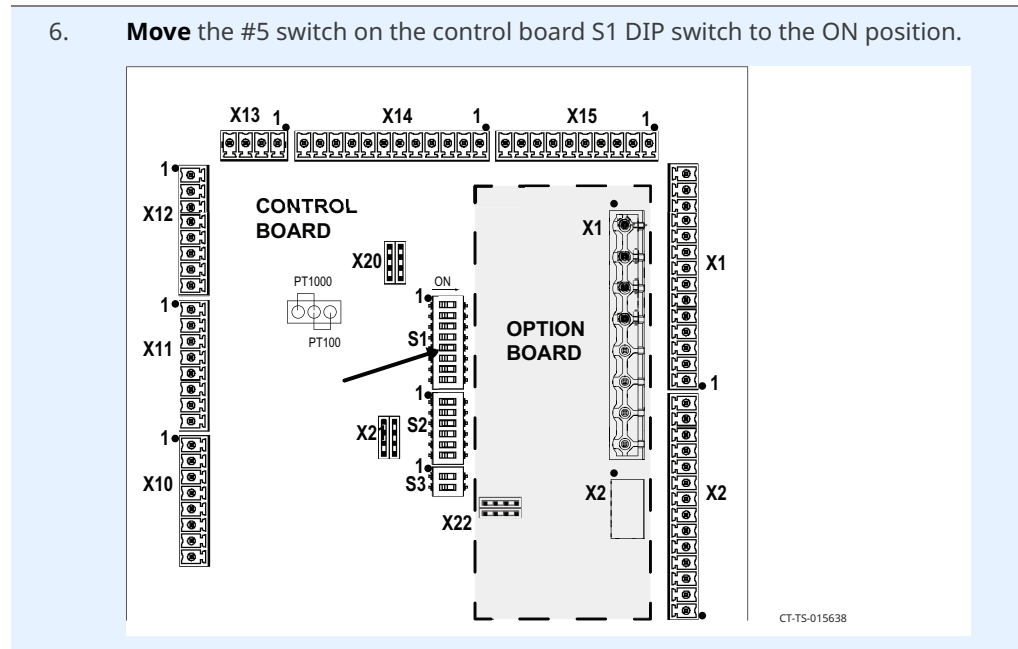


CT-TS-015635

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6. **Move** the #5 switch on the control board S1 DIP switch to the ON position.



Result

The option board is now installed.

How to Install a Ventech™ Hood on a Single Oven



WARNING: Electric shock hazard.

Disconnect the electric power from the oven before installing the Ventech Hood. Install lock-out/tag-out equipment.

NOTICE

Do not stack Single Oven units with a Ventech Hood installed.

Before you begin

Make sure you have:

- VH-10 or VH-20 Ventech Condensation Hood Kit
- Screwdriver (Phillips #2)
- Personal protective equipment (PPE)
- An appropriate lifting device, and enough personnel, to safely move and position the weight of the hood.
 - VH-10: 121 lbs (55kg)
 - VH-20: 158 lbs (72kg)

Requirements

- The oven must be installed on a level surface.
- The oven must not be installed in any area where it may be affected by steam, grease, dripping water, high temperature, or any other severely adverse conditions.
- The oven is not intended for built-in installation.

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Before installing the hood

Before installing the hood, do the following.

Step	Action
1.	<p>Make sure that:</p> <ul style="list-style-type: none"> ■ The location where the oven is being installed is rated to support the weight of the oven. ■ The oven is within five feet (1.52m) of the appropriate electrical outlet. ■ You follow all applicable local codes and regulations. ■ You follow the oven clearance guidelines.

4" (102 mm) 20" (508 mm) 2" (51 mm)

CT-DIM-009239

Install the hood

To install the hood, do the following.

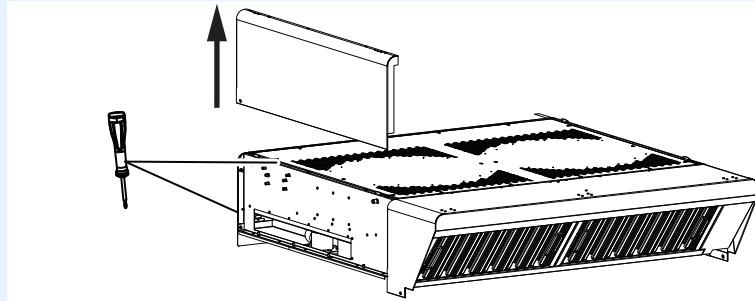
2. **Remove** the screws ① from the top of the oven. Discard the screws.

CT-TS-009026

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3. **Remove** the side panel from the hood.

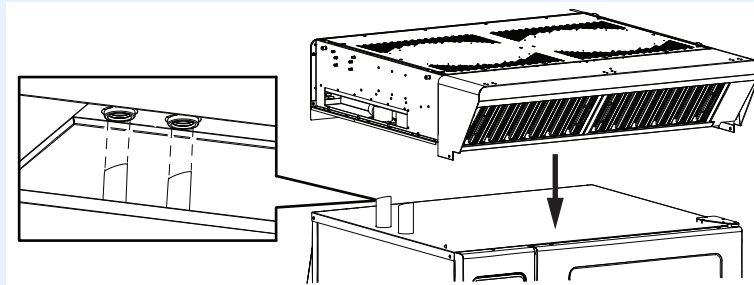


CT-TS-009028

4. With a lifting device, **lift** the hood and align the oven vent tubes with the seals in the hood.

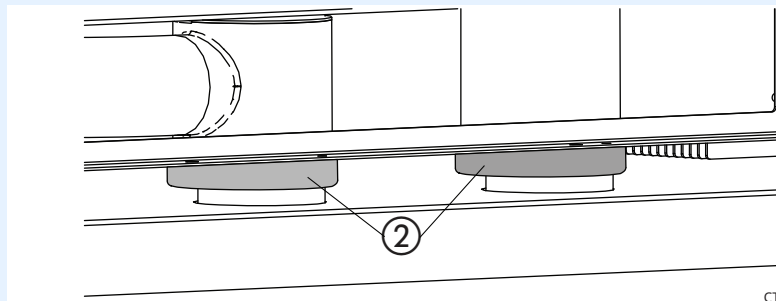
Spray the tubes with soapy water for lubrication.

Lower the hood onto the oven.



CT-TS-009036

5. **Inspect** the seals ② to ensure they are not damaged. Adjust or reshape the seals as required.

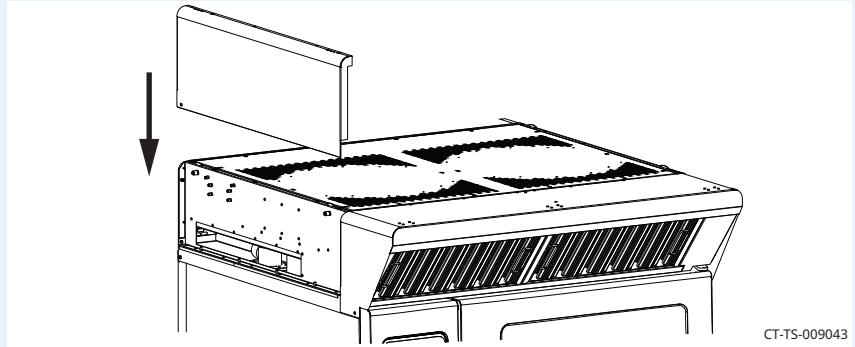


CT-TS-009038

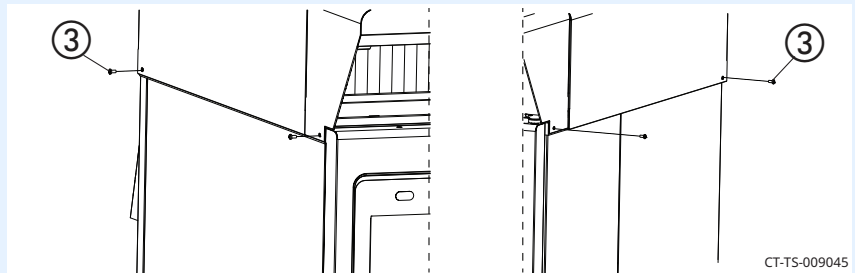
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6. **Re-install** the side panel onto the hood.

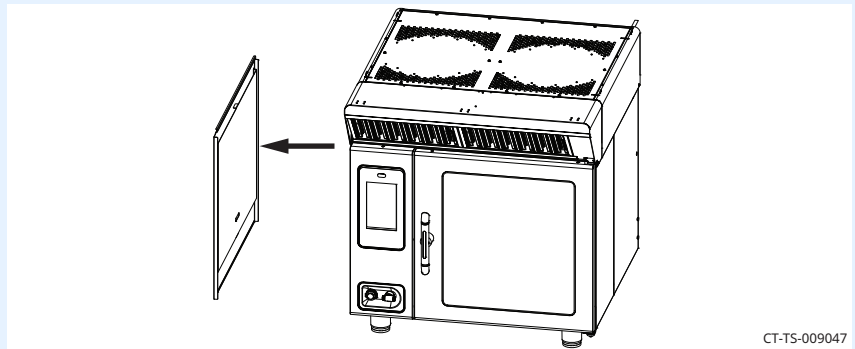


7. **Install** the longer screws ③ from the kit to attach the hood to the oven.



Wiring the hood

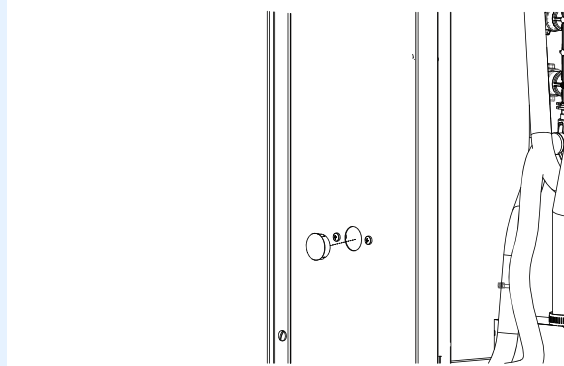
8. **Remove** the left side service panel from the oven.



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9. **Remove** the plastic plug from the utilities panel of the oven (gas inlet hole).

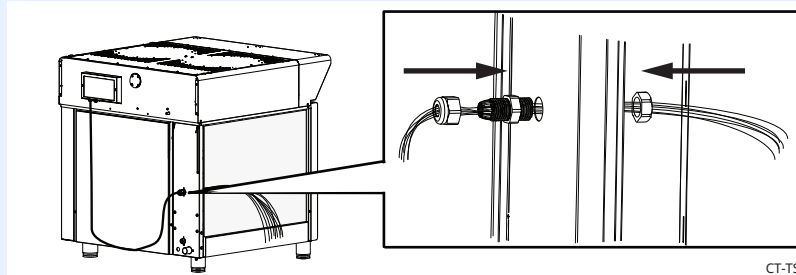


CT-TS-015644

10. **Insert** the hood harness wires through the cord grip.
Route the wires through the utilities panel.
Insert the cord grip into the hole.

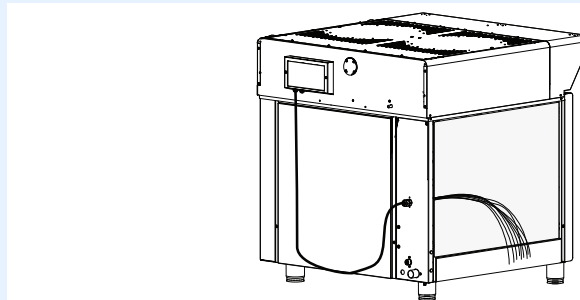


NOTE: Remove any individual wires zip tied to the harness.



CT-TS-015647

11. **Tighten** the inside mounting nut on the cord grip.
Adjust the length of the harness so the outer covering of the harness is inserted into the cord grip. Leave the enough slack in the harness to remove the back panel for service.

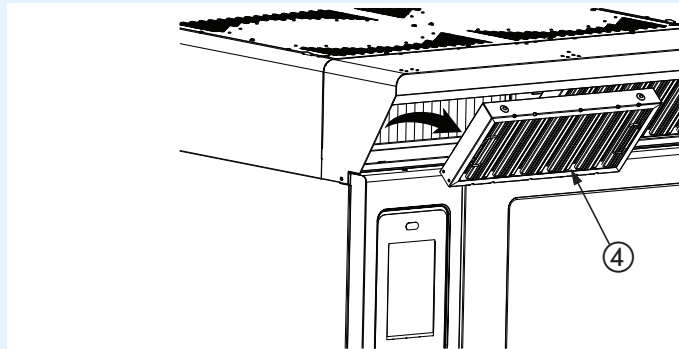


CT-TS-015650

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12. **Remove** the filter ④.

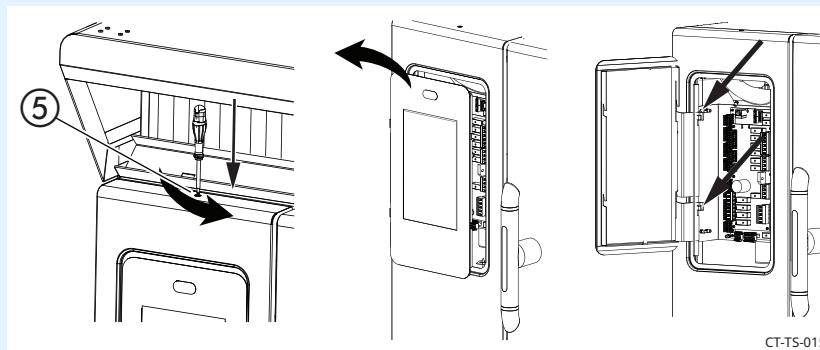


CT-TS-009053

13. **Turn** the control panel securing screw ⑤ counterclockwise. Push the securing screw down.

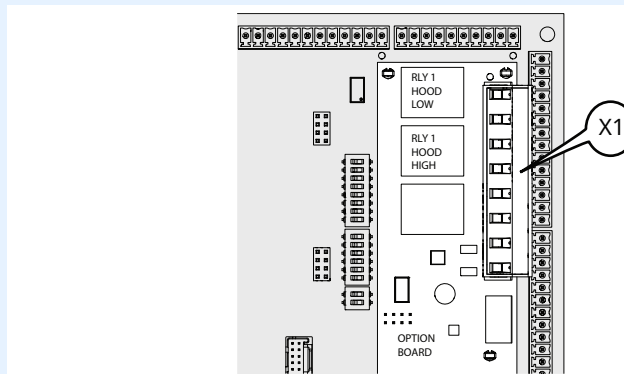
Lift and rotate the control panel away from the oven.

Place the control panel onto the support hooks.



CT-TS-015653

14. **Locate** connector X1 on the option board (OB).

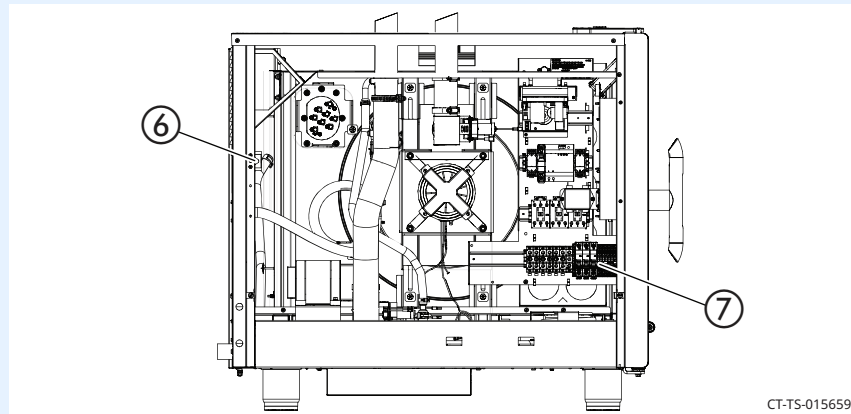


CT-TS-015656

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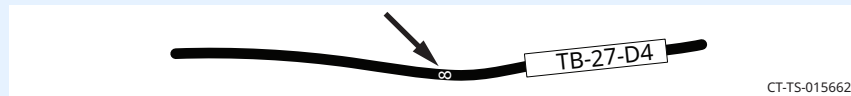
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15. In the electrical compartment, **locate** the following components, N7 ⑥, TB-27, TB-33, TB-50 ⑦.



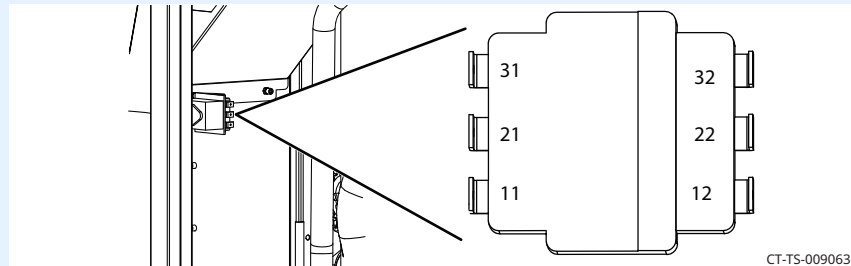
CT-TS-015659

Each wire from the hood has an identification label attached to it. The black wires from the hood have a number laser printed on it that corresponds to the terminal block in the hood electrical box.



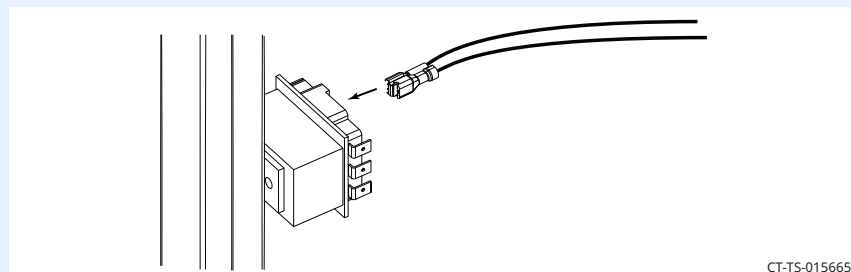
CT-TS-015662

16. **Remove** the existing wire from the N7 High Limit terminal 12 to TB-27. Discard the wire.



CT-TS-009063

17. **Using** a double spade terminal, install wire 466 and wire #6 N7-12 onto terminal 12.



CT-TS-015665

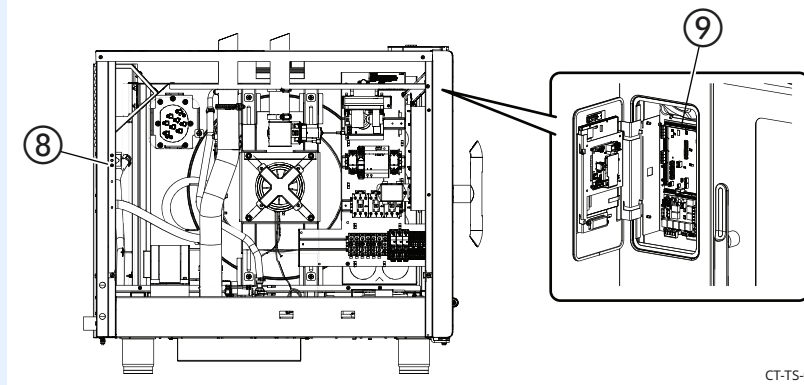
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Option board wiring

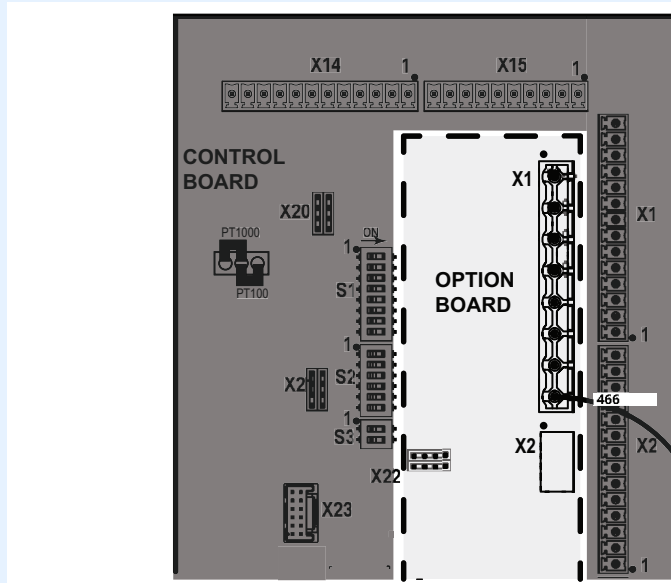
18. **Route** wire 466 from the N7 High Limit (8) to the Option Board (OB) (9).

NOTE: Follow the existing wire bundles.



CT-TS-015668

19. **Install** wire 466 into terminal 8 of connector X1 on the option board.



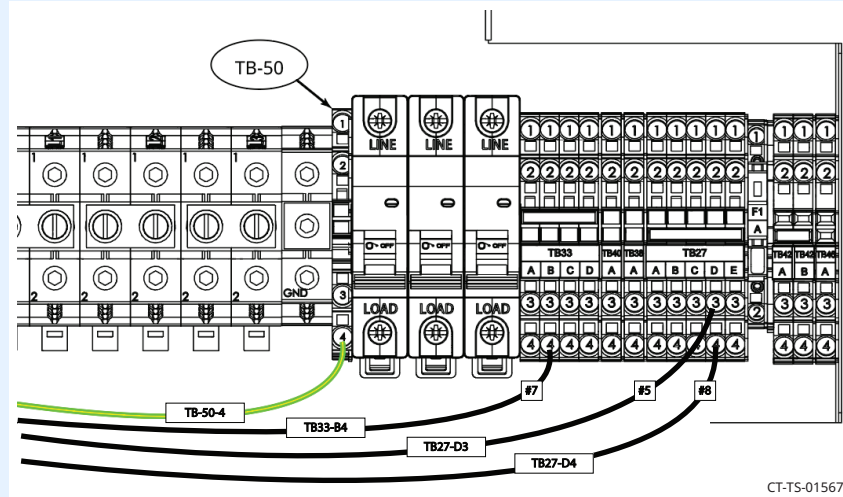
CT-TS-015671

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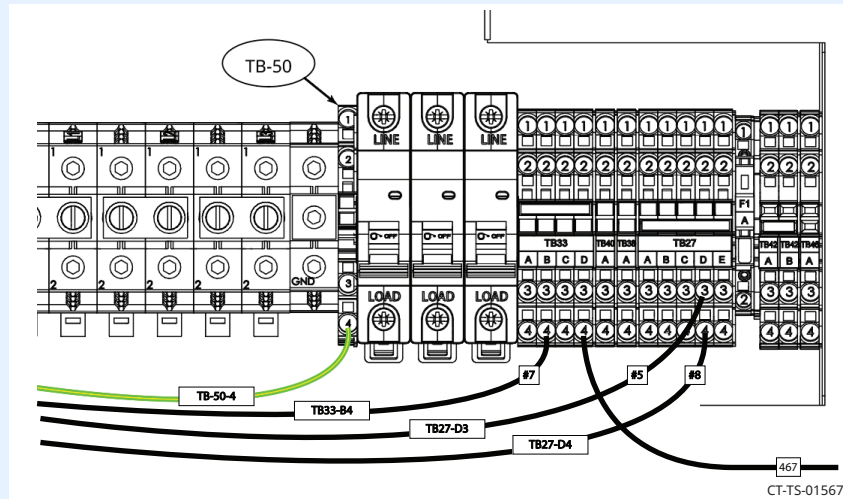
Terminal block wiring

20. **Install** wire PE (green/yellow) into terminal block TB-50-4 (GND).
Leave an extra long loop so that if the cord is accidentally pulled the current-carrying conductors become taut before the ground wire. Follow applicable regulations.
Install wire #5 into terminal block TB-27 D3.
Install wire #7 into terminal block TB-33 B4.
Install wire #8 into terminal block TB-27 D4.



CT-TS-015674

21. **Install** wire 467 into terminal block TB-33-D4 and route the wire to the option board.



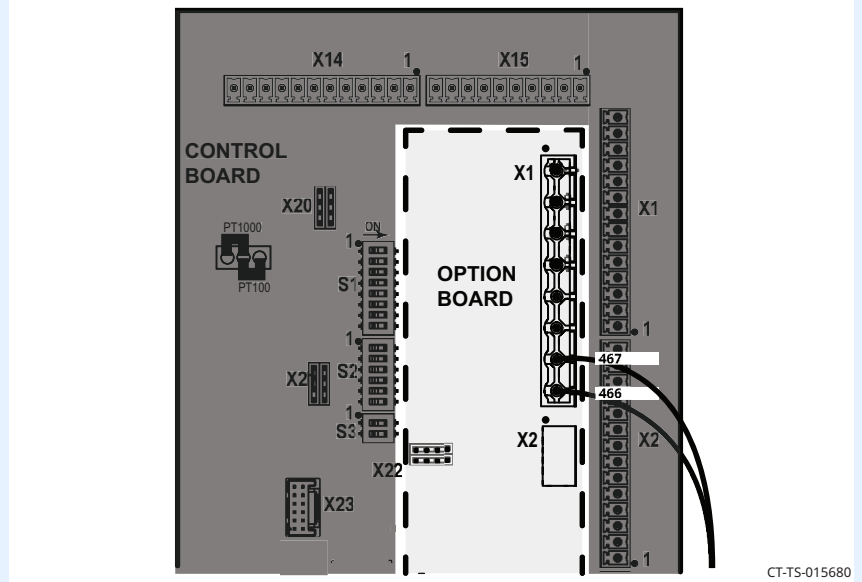
CT-TS-015677

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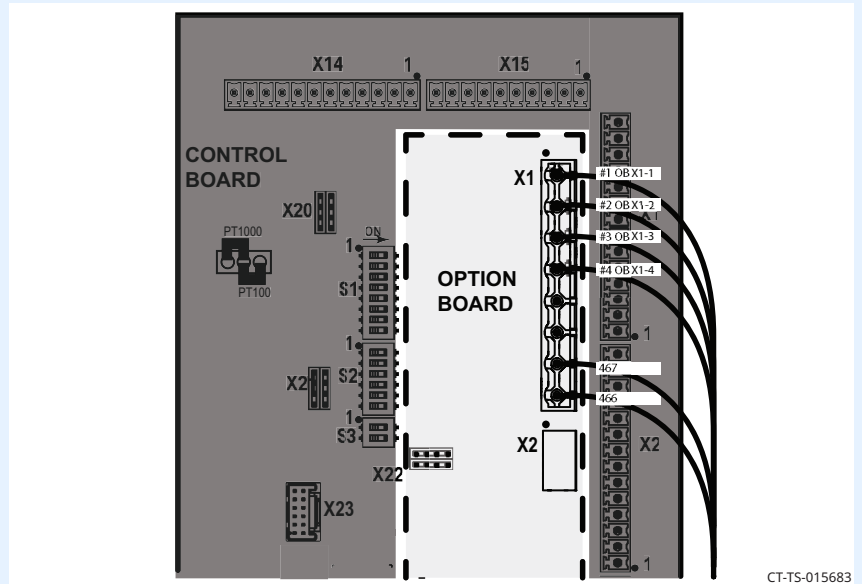
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Option board wiring

22. **Install** wire 467 into terminal 7 of connector X1 on the option board.



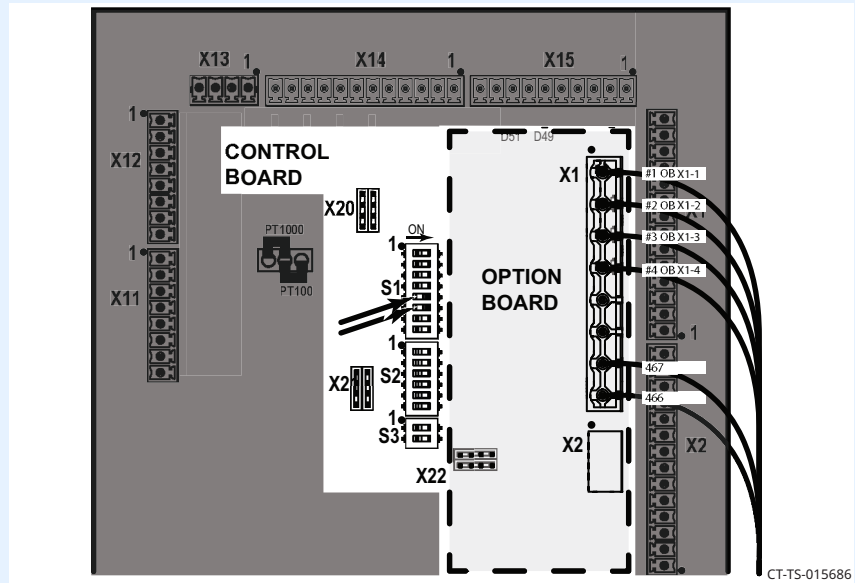
23. **Route** the remaining hood wires to the option board.
Install the wires into the X1 connector as shown below.



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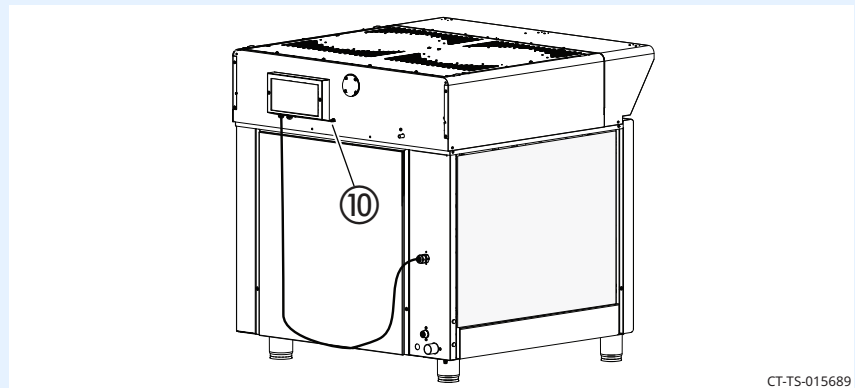
24. **Verify** the #5 switch on the control board S1 DIP switch is in the ON position.
Move the #6 switch on the control board S1 DIP switch to the ON position.



Finishing steps

25. **Secure** all newly installed wires to the existing wire bundles. Tighten the nut on the cord grip.
For CE installations, **connect** to the equipotential bonding terminal ⑩.

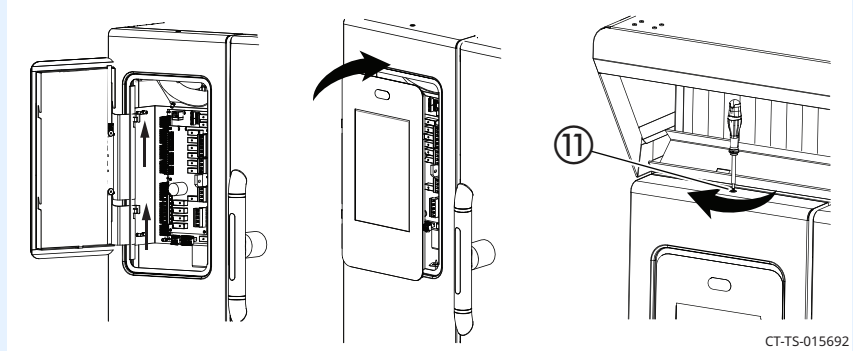
NOTE: Leave the enough slack in the harness to remove the back panel for service.



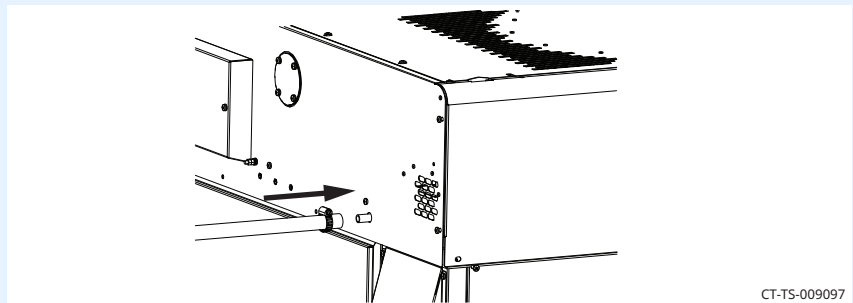
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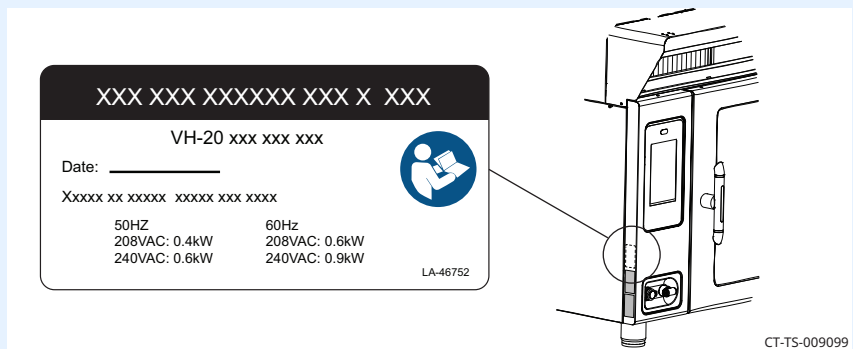
26. **Lift** the control panel off of the support hooks.
Rotate the control panel toward the oven. **Align** the slots on the control panel with the hooks inside of the oven. Do not pinch the wires.
Turn the front panel securing screw ⑪ clockwise.



27. **Place** a hose clamp onto the drain hose. **Install** the drain hose onto the hood drain fitting. Tighten the clamp. Route the hose to a drain and cut the hose to length.



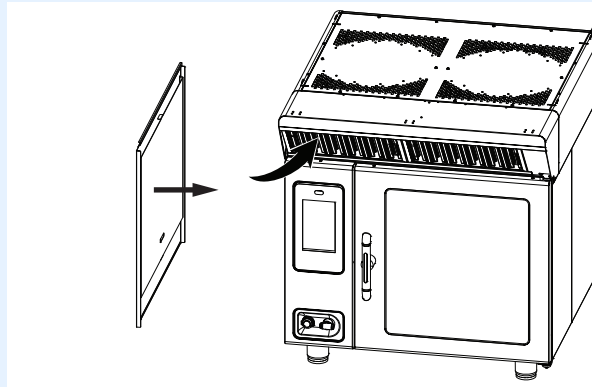
28. **Write** the date on the label from the kit. **Adhere** the label onto the oven in this location.



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29. **Re-install** the filter into the hood. **Install** the left side panel onto the oven. **Remove** the protective covering from the hood.



CT-TS-009101

Result

The Ventech hood is installed.

How to Install Stacked Ovens with a Ventech™ Hood

Before you begin

Make sure you have:

- Oven with VH-10 or VH-20 Ventech hood connected to the upper oven
- Screwdriver (Phillips #2)
- Personal protective equipment (PPE)
- An appropriate lifting device, and enough personnel, to safely move and position the top oven with hood.

Requirements

- The oven must be installed on a level surface.
- The oven must not be installed in any area where it may be affected by steam, grease, dripping water, high temperature, or any other severely adverse conditions.
- For CE applications, the lower oven must be bolted to the floor. See the Prodigy™ Installation Manual for more information.
- The Ventech hood is mounted to the oven designated to be on top.



WARNING: Electric shock hazard.

Disconnect the electric power from the oven before installing the Ventech Hood.



NOTE: Hood Installed on top of the oven at the factory only.

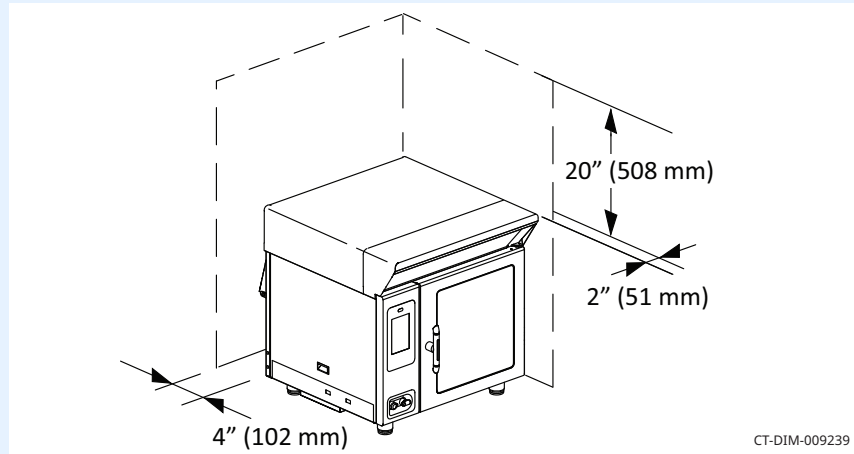
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Before stacking the ovens

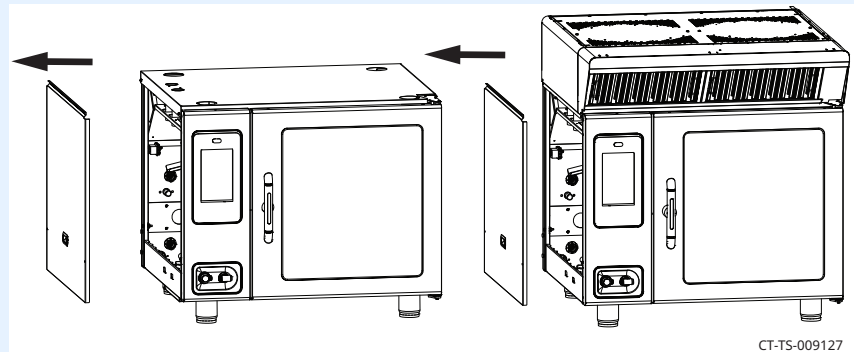
Before stacking the ovens, do the following.

Step	Action
1.	<p>Make sure that:</p> <ul style="list-style-type: none"> The location where the oven is being installed is rated to support the weight of the ovens and Ventech hood. The oven is within five feet (1.52m) of the appropriate electrical outlet. You follow all applicable local codes and regulations. You follow the oven clearance guidelines.
	
2.	<p>Move the bottom oven to the installation location and onto the final resting surface.</p>
<h2>Stacking the ovens</h2>	
3.	<p>Remove the left side service panels from both ovens.</p>
	

- The location where the oven is being installed is rated to support the weight of the ovens and Ventech hood.
- The oven is within five feet (1.52m) of the appropriate electrical outlet.
- You follow all applicable local codes and regulations.
- You follow the oven clearance guidelines.



CT-DIM-009239

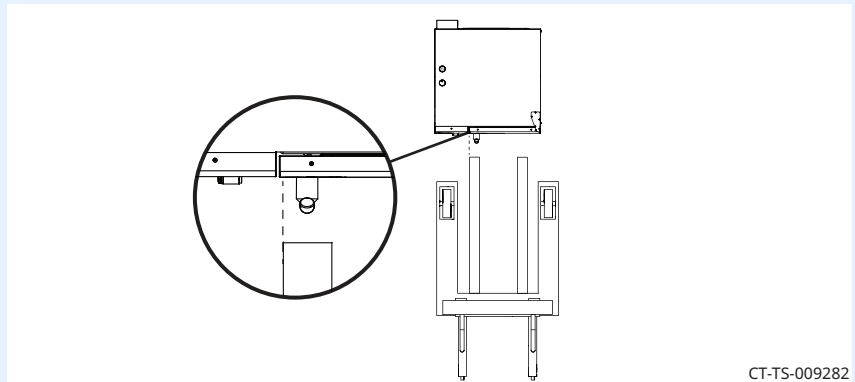


CT-TS-009127

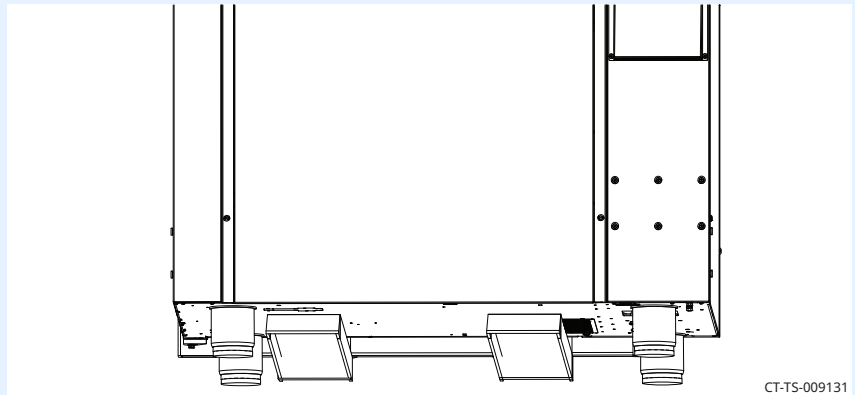
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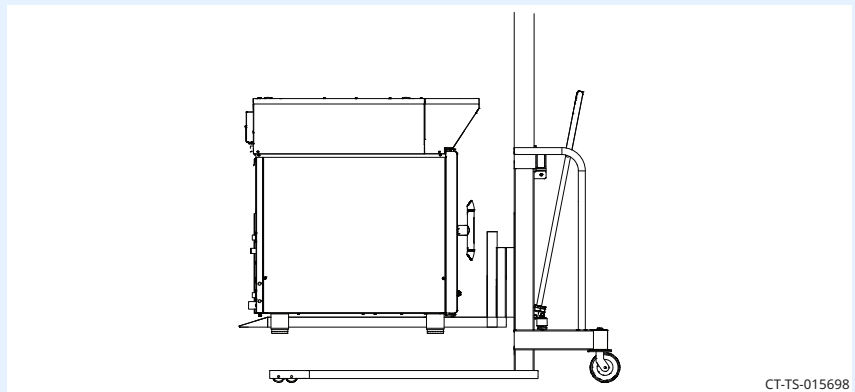
4. **Align** the outside edge of the left fork with the left side of the door. **Adjust** the width of the forks accordingly to limit any movement.



5. **Position** the forks under the oven as shown. Do not contact the oven components with the forks.



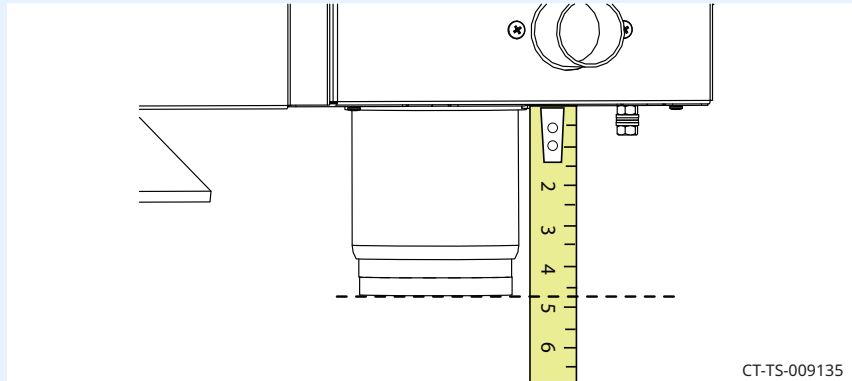
6. **Lift** the top oven.



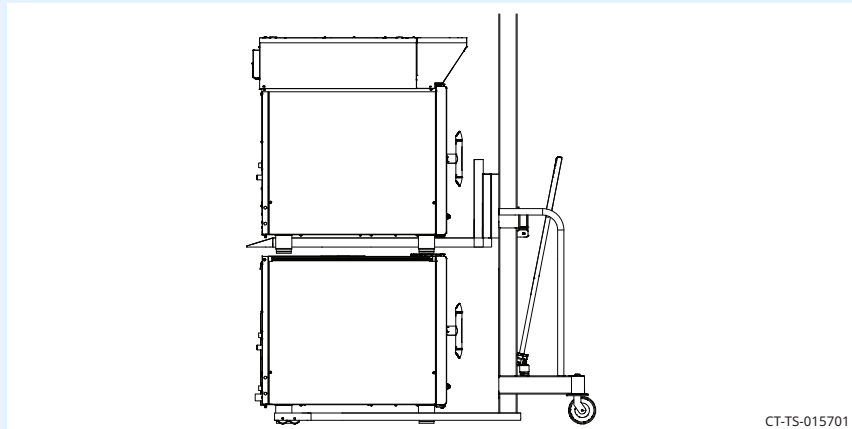
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7. **Adjust** the legs of the top oven to 4-3/4" (121 mm).

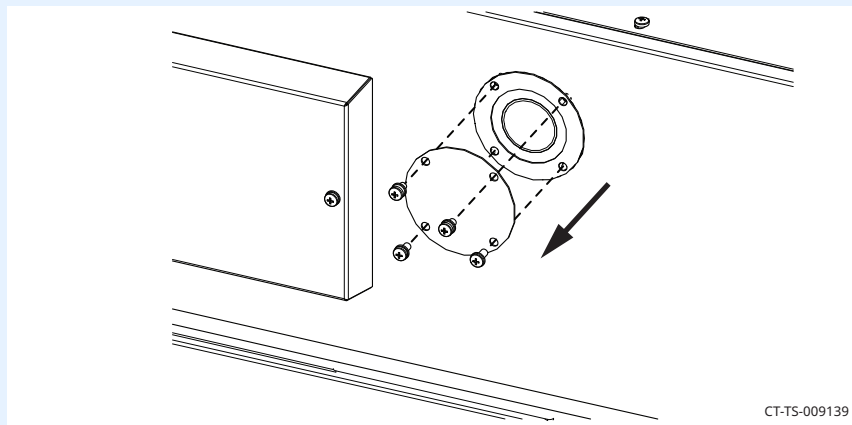


8. **Place** the top oven onto the bottom oven.



Installing the vent pipes

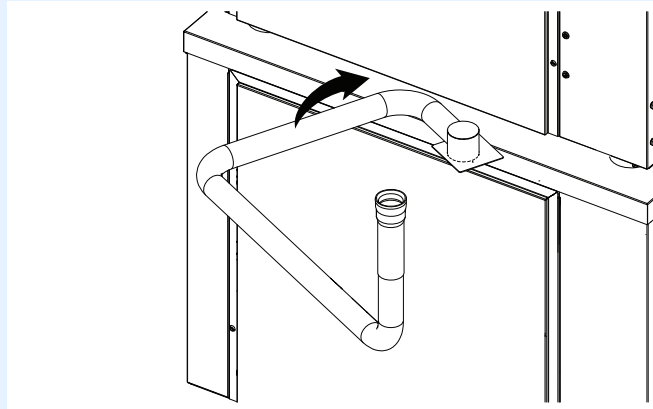
9. **Remove** the cover plate from the back of the hood. **Retain** the gasket.



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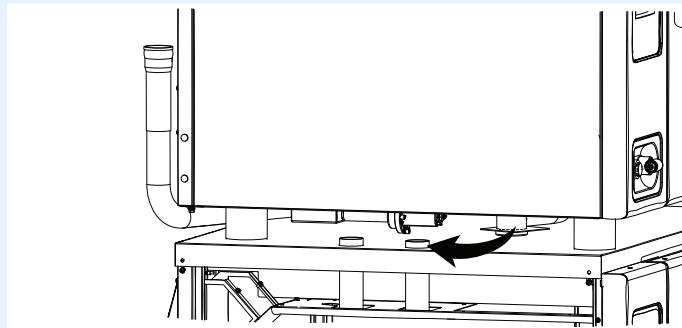
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10. **Insert** the vent pipe between the top and bottom oven.



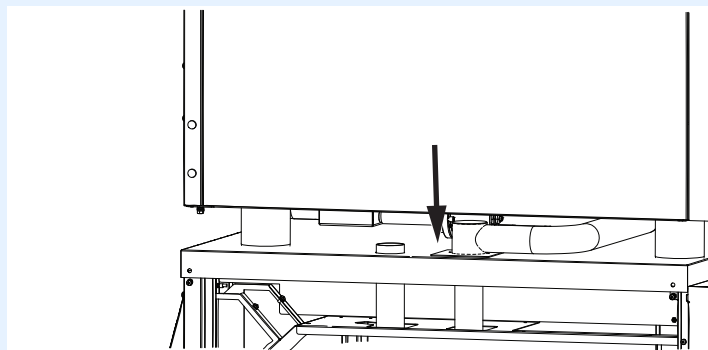
CT-TS-015704

11. **Rotate** the vent pipe around the wash pump so that it aligns with the vent pipe on the bottom oven.



CT-TS-009143

12. **Install** the pipe onto the bottom oven vent pipe. **Attach** the pipe with the screws in the kit.

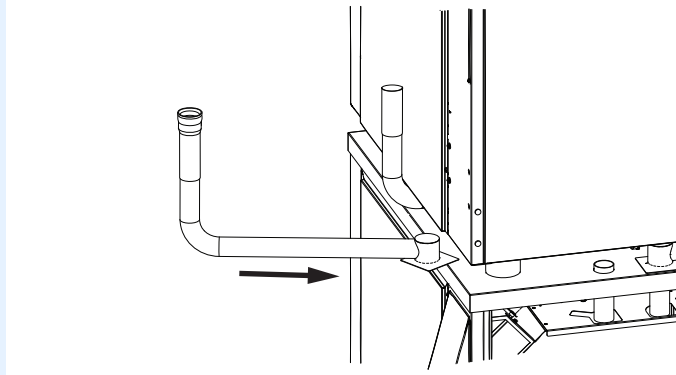


CT-TS-009147

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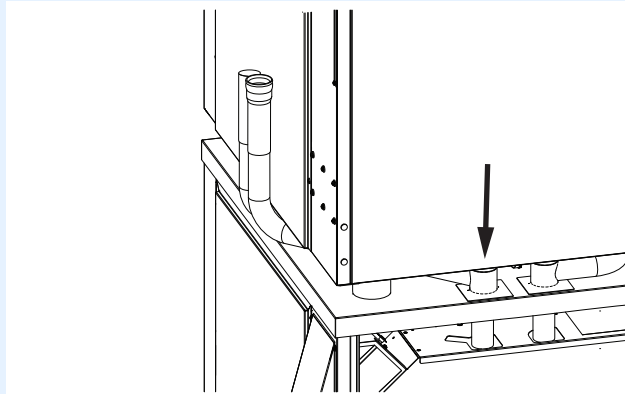
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13. **Install** the second vent pipe between the two ovens.



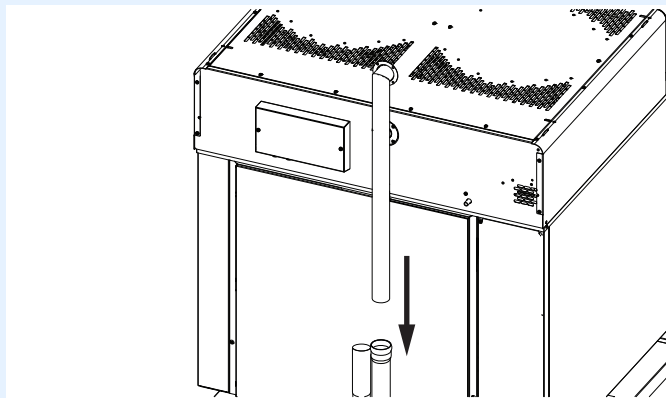
CT-TS-015707

14. **Install** the pipe onto the bottom oven vent pipe. **Install** the pipe with the screws in the kit.



CT-TS-015710

15. **Insert** the right upper pipe into the lower pipe.

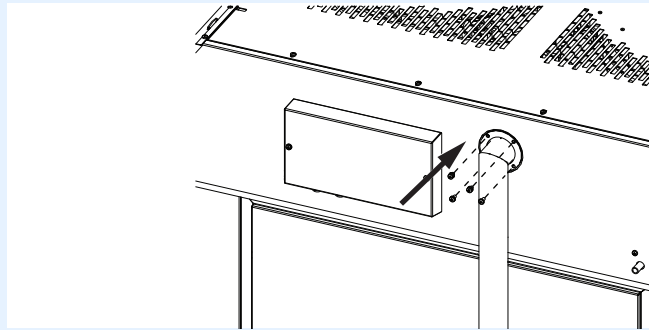


CT-TS-015713

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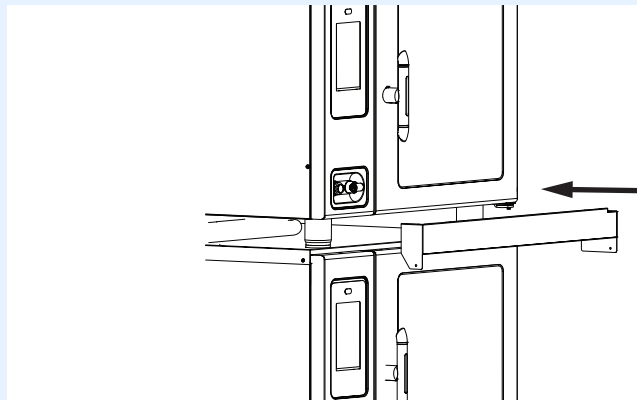
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16. **Install** the gasket. **Install** the screws to secure the pipe.



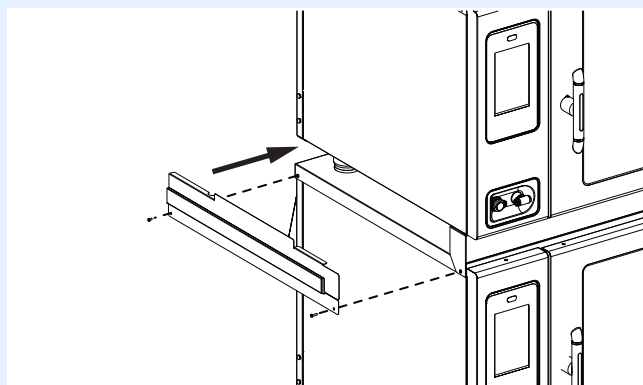
CT-TS-009155

17. **Install** the front skirt between the ovens.



CT-TS-009157

18. **Install** the side skirt onto the ovens.

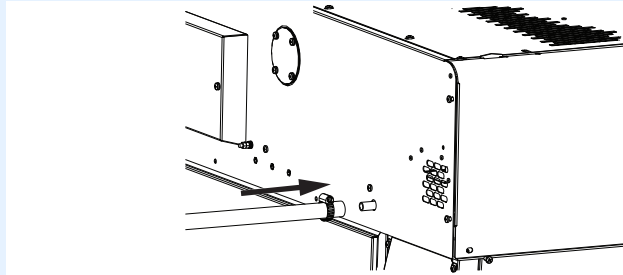


CT-TS-009159

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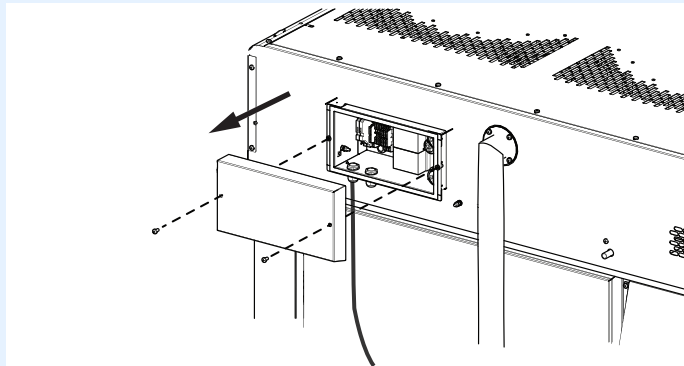
19. **Place** a hose clamp onto the drain hose.
Install the drain hose onto the hood drain fitting. **Tighten** the hose clamp.
Route the drain hose to a drain and cut the drain hose to length.



CT-TS-009161

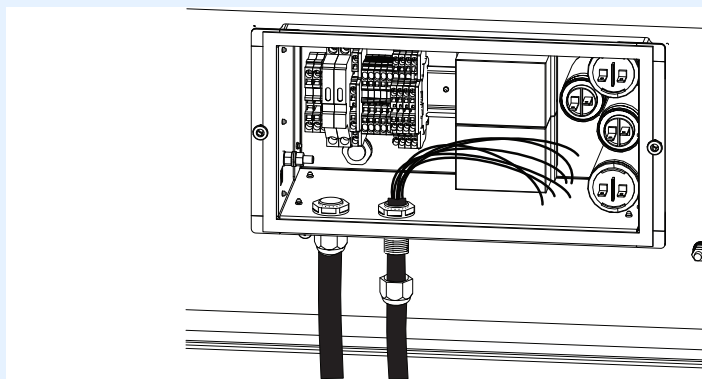
Terminal block wiring

20. **Open** the electrical box on the back of the hood.



CT-TS-009163

21. **Install** the cord from the bottom oven into the electrical box on the hood.
Adjust the length of the wires into the electrical box and tighten the cord grip nut.



CT-TS-009165

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22. Each wire from the hood has an identification label attached to it. The black wires from the hood have a number laser printed on it that corresponds to the terminal block in the hood electrical box.

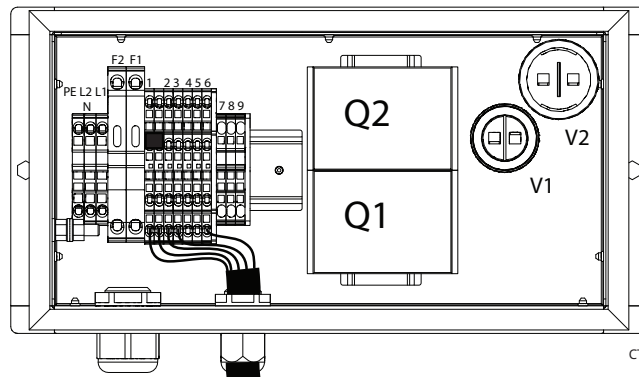


CT-TS-015716

Install wires into an open hole in the terminal blocks in accordance with the table below.

VH-10

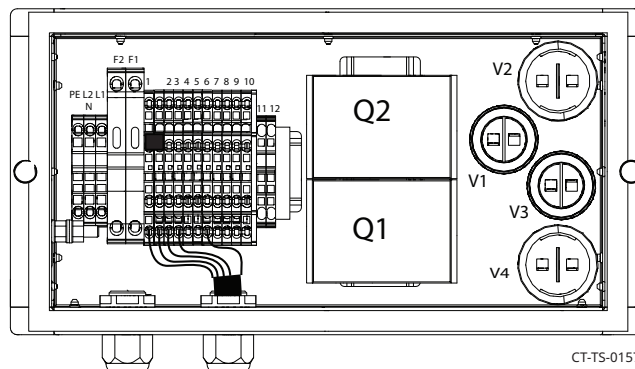
WIRE	TB
OB-X1-1	1
OB-X1-2	2
OB-X1-3	1
OB-X1-4	3
N7-12	6



CT-TS-015738

VH-20

WIRE	TB
OB-X1-1	1
OB-X1-2	2
OB-X1-3	1
OB-X1-4	3
N7-12	6

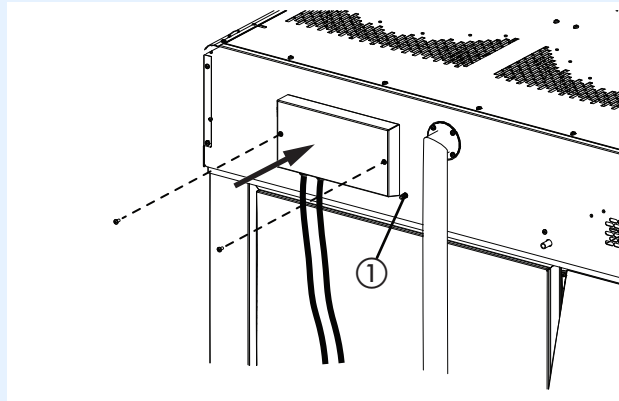


CT-TS-015741

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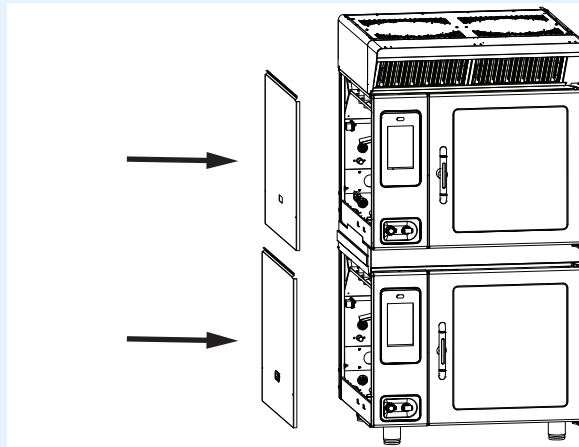
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23. **Install** the electrical box cover.
For CE installations, **connect** to the equipotential bonding terminal ①.



CT-TS-009171

24. **Install** the left side panels onto both ovens.



CT-TS-009173

Result

This procedure is complete. Install the ovens by following the instructions in the Installation Manual. Once installed, test all functions of the ovens and the hood.

How to Remove and Clean the Hood Filters

Before you begin



WARNING: Electric shock hazard.

Disconnect the electric power from the oven before removing the hood filters.



CAUTION: Fire hazard

Clean the filters at regular intervals as stated in the Maintenance topic.

NOTICE

Only use spray cleaner when the electric power is completely removed from the hood.

Do not use steel pads, wire brushes, or scrapers when cleaning.

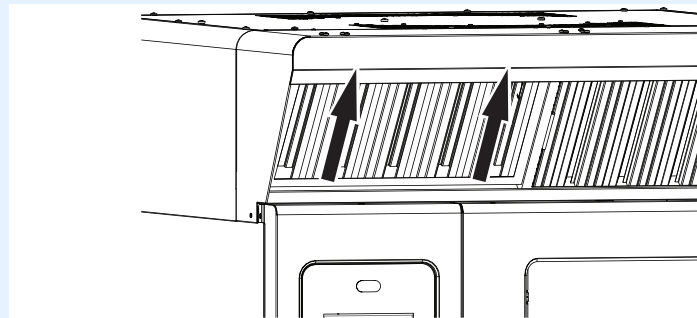
- Wear personal protective equipment (PPE)

Remove the filters

To remove the filters, do the following.

Step	Action
------	--------

- | | |
|----|--|
| 1. | Raise the grease filter out of the channel. |
|----|--|

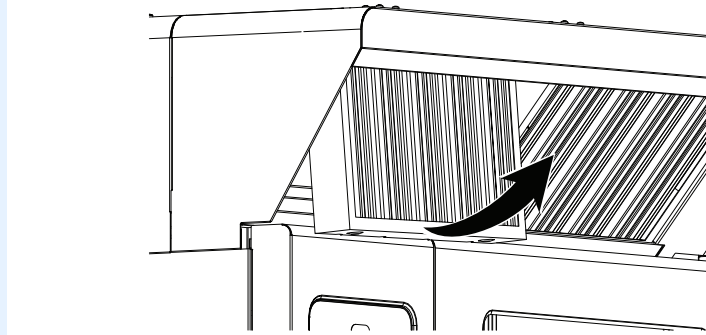


CT-TS-009413

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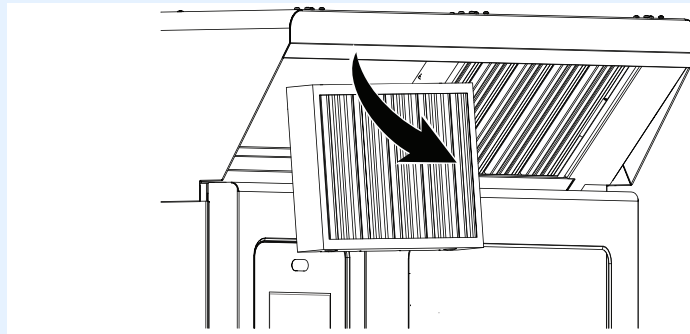
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2. **Rotate** the bottom of the filter out of the hood.



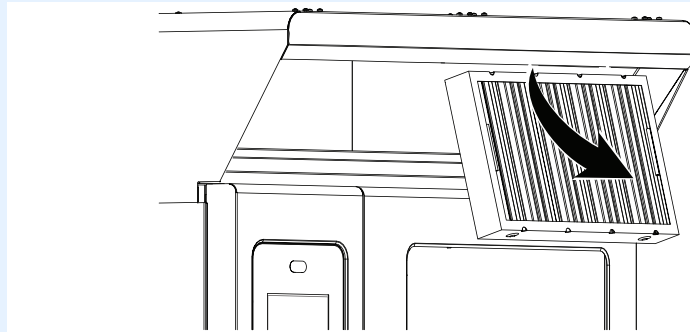
CT-TS-009415

3. **Lower** the filter and remove it from the hood.



CT-TS-009417

4. **Repeat** the removal steps for the other grease filter.

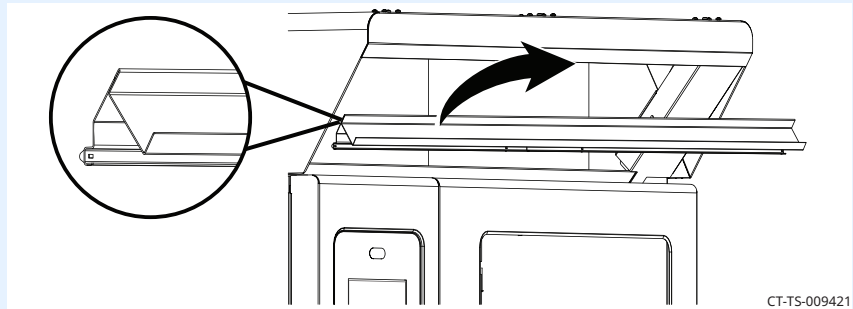


CT-TS-009419

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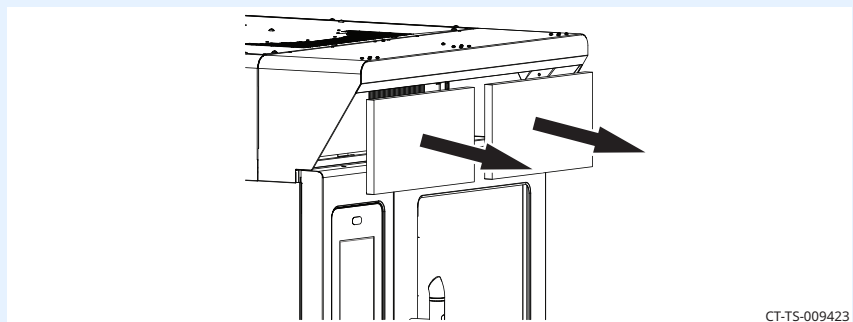
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5. **Remove** the filter channel. Note the orientation of the channel.



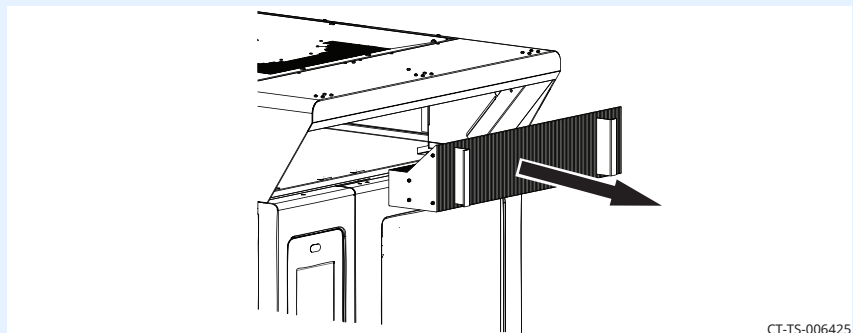
CT-TS-009421

6. **Remove** the charcoal filters from the hood.



CT-TS-009423

7. **Remove** the optional condensation filter, if installed.



CT-TS-006425

Clean the filters

Spray the grease filters with a mild cleaner and rinse with hot water.

Replace the charcoal filters every three (3) months for heavy usage, or every six (6) months for light usage.

Re-install the filters

Follow the above procedure in reverse order to reinstall the filters.

Result

The filters are now clean.

How to Install a Second Coil



WARNING: Electric shock hazard.

Disconnect the electric power from the oven before installing a second coil.



NOTE: This procedure only applies to stacked 7-20 ovens with international voltages.

Before you begin

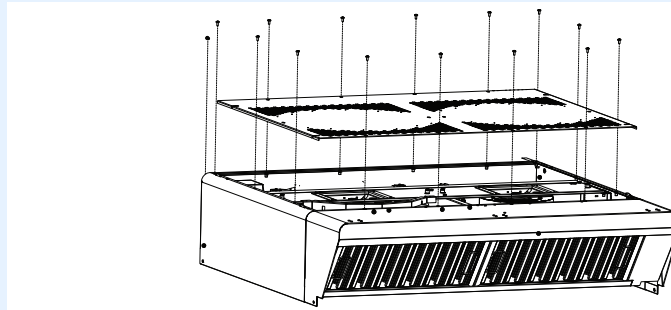
Make sure you have:

- A second coil
- Screwdriver (Phillips #2)
- Personal protective equipment (PPE)

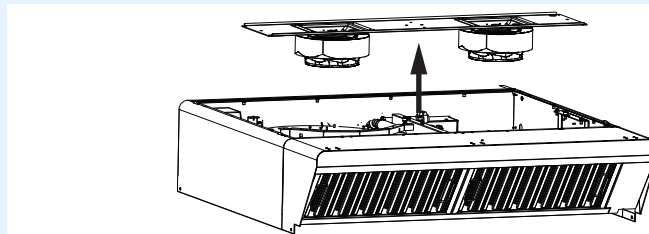
Install the coil

To install a second coil, do the following.

Step	Action
1.	Remove the top of the hood.
	
2.	Remove the fan motors.
	



CT-TS-009197

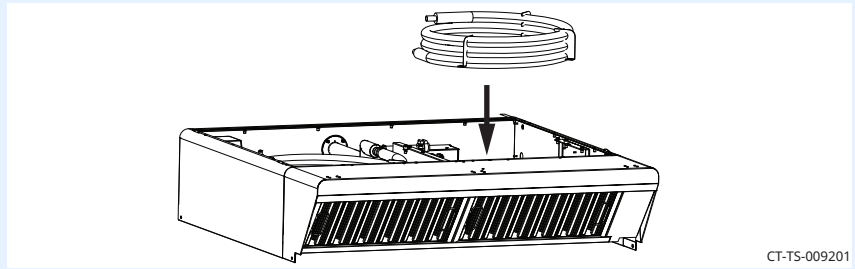


CT-TS-009199

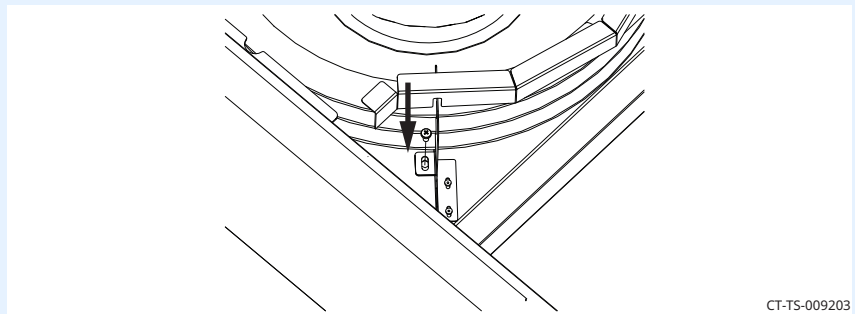
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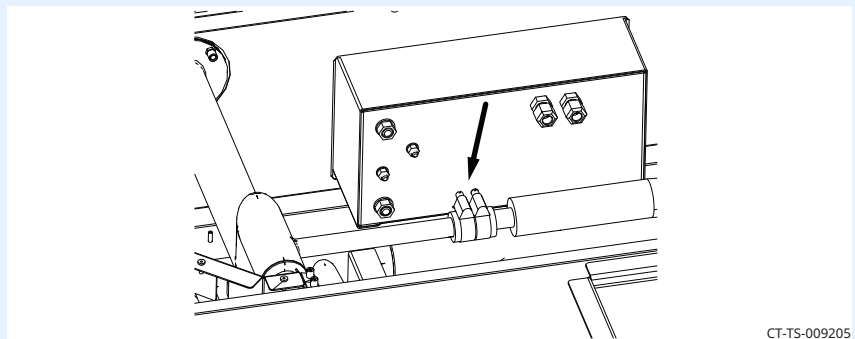
3. **Install** the coil.



4. **Install** the coil mounting screws.



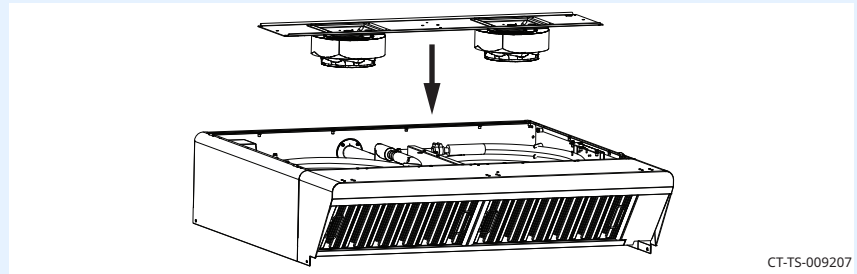
5. **Tighten** the hose clamps.



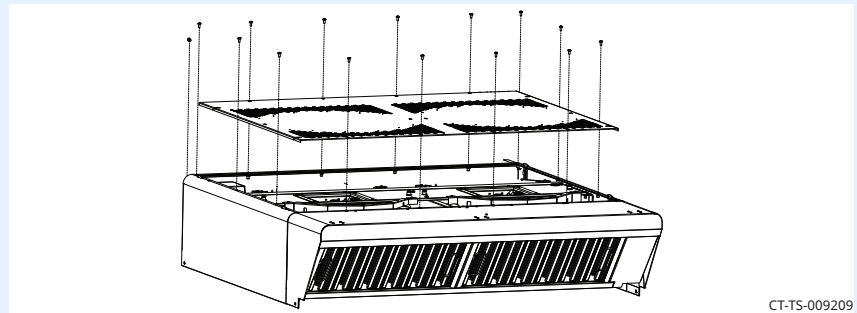
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6. **Install** the fan motors.



7. **Install** the top.



Result

This procedure is complete. Test all functions of the ovens and the hood.

How to Install the HEPA Filter

Install the filter

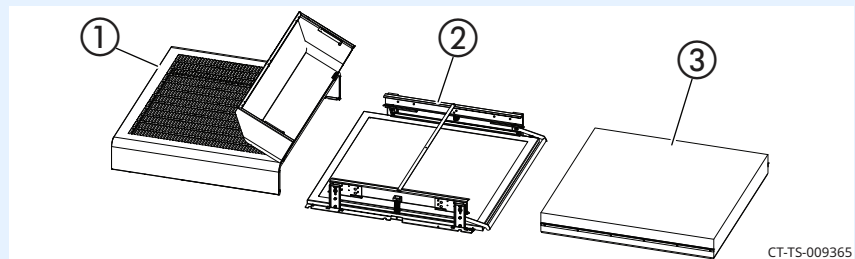
To install the HEPA filter, do the following.

Step	Action
------	--------

1. **Remove** the HEPA filter assembly from the box.

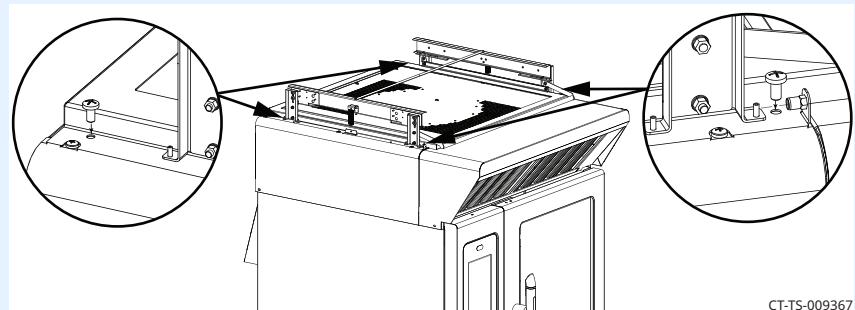
Separate the three (3) main components.

- ① Cover
- ② Base
- ③ Filter



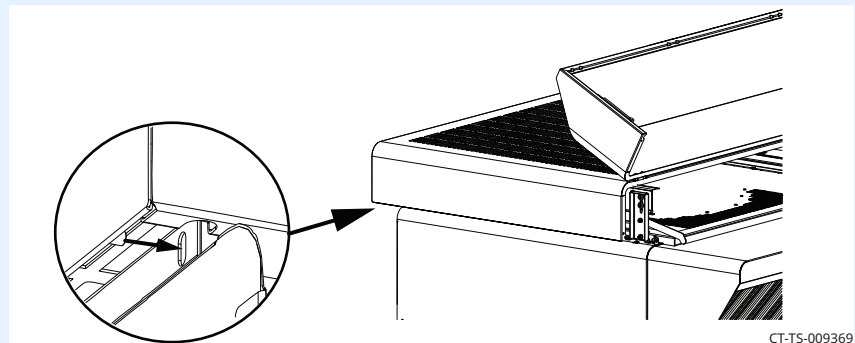
CT-TS-009365

2. **Install** the base onto the hood.



CT-TS-009367

3. **Install** the cover onto the base. Align the two (2) pins attached to the cover with the slots in the base.

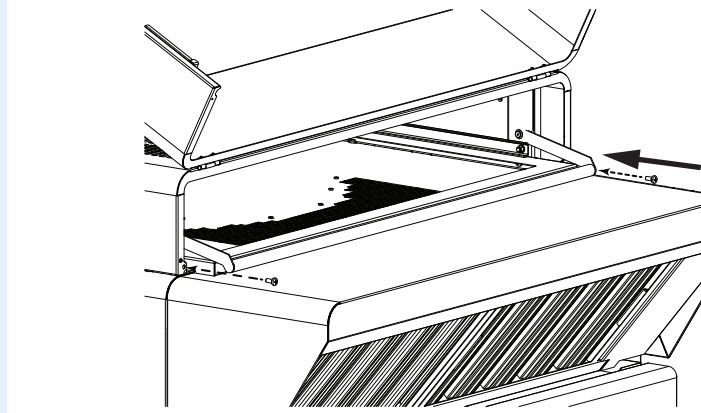


CT-TS-009369

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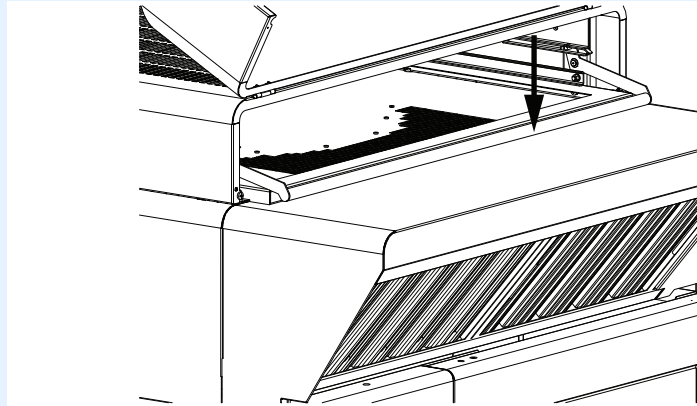
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4. **Install** the front two (2) mounting screws.



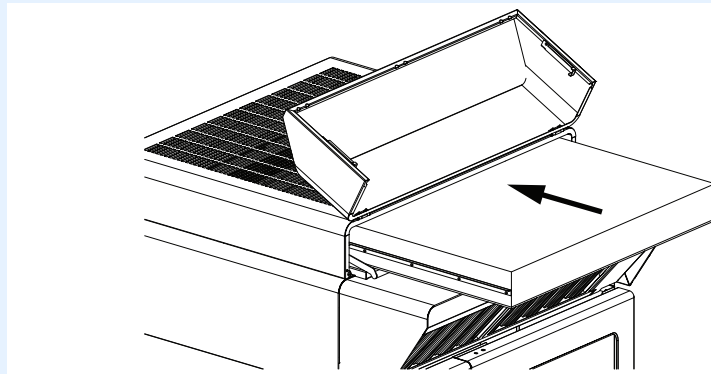
CT-TS-009371

5. **Push** the filter retention handle down.



CT-TS-009373

6. **Slide** the filter into the base.

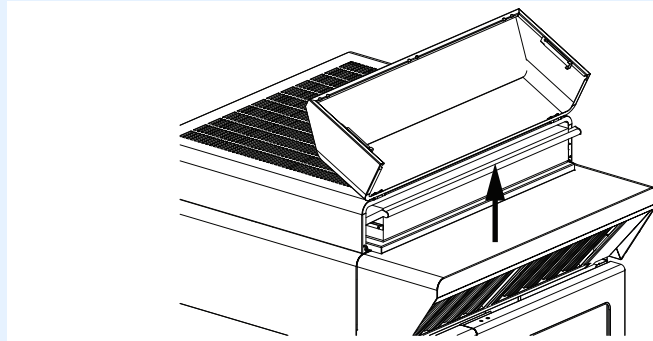


CT-TS-009375

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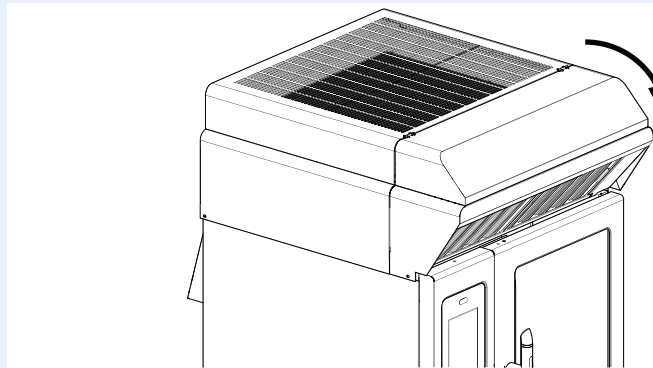
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7. **Lift** the retention handle up.



CT-TS-009377

8. **Close** the cover flap.



CT-TS-009379

Result

This HEPA filter is now installed.

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Theory of Operation

The hood receives electrical power from the oven distribution board. In a stacked configuration, the top oven supplies the electrical power to the hood.

The hood fan(s) have two modes. 1) low-speed mode, and 2) high-speed mode. Relay Q1 is energized in low-speed mode. Both relays, Q1 and Q2, are energized in high-speed mode.

Anytime the oven's RLY 50 relay is energized, relay Q1 is energized and the hood operates in low-speed mode.

A 30-second, high-speed self-test is initiated when the oven control is turned on. Upon completion of a successful self-test, the hood fan returns to the low-speed mode. The oven control (both controls in a stacked configuration) displays a fault if the self-test is unsuccessful. The fault is also displayed when the pressure differential switch is malfunctioning. The oven's heating elements are de-energized during all hood fault conditions.

With two minutes remaining at the end of a cooking cycle, the hood fan(s) shift to the high-speed mode and the oven's humidity valves open. In a stacked configuration, when either oven reaches the two-minute mark at the end of a cooking cycle, the hood fan(s) shift to the high-speed mode. The hood fan(s) will remain in the high-speed mode until the door on either oven is opened and closed.

If the oven door is opened during a cooking cycle, the hood fan(s) shift to the high-speed mode. In a stacked configuration, opening either oven door will cause the hood fan(s) to shift to the high-speed mode.

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Maintenance Schedule

Requirements

- See topic *How to Remove and Clean the Filters*.
 - Make sure the oven is off.
-

Daily

For daily maintenance, do the following.

- **Wipe** with a damp cloth.
-

Bi-Weekly

For bi-weekly maintenance, do the following.

- **Clean** the grease filter.
-

Monthly

For monthly maintenance, do the following.

- **Inspect** charcoal filters.
 - **Replace** charcoal filter every three (3) months for heavy usage, or every 6 months for light usage.
 - Inspect coil vent orifice located in the middle of and above the charcoal filters, clean as required.
-

Yearly

For yearly maintenance, do the following.



NOTE: Must be performed by a qualified professional.


- **Replace** condenser coil after 3 years of usage.

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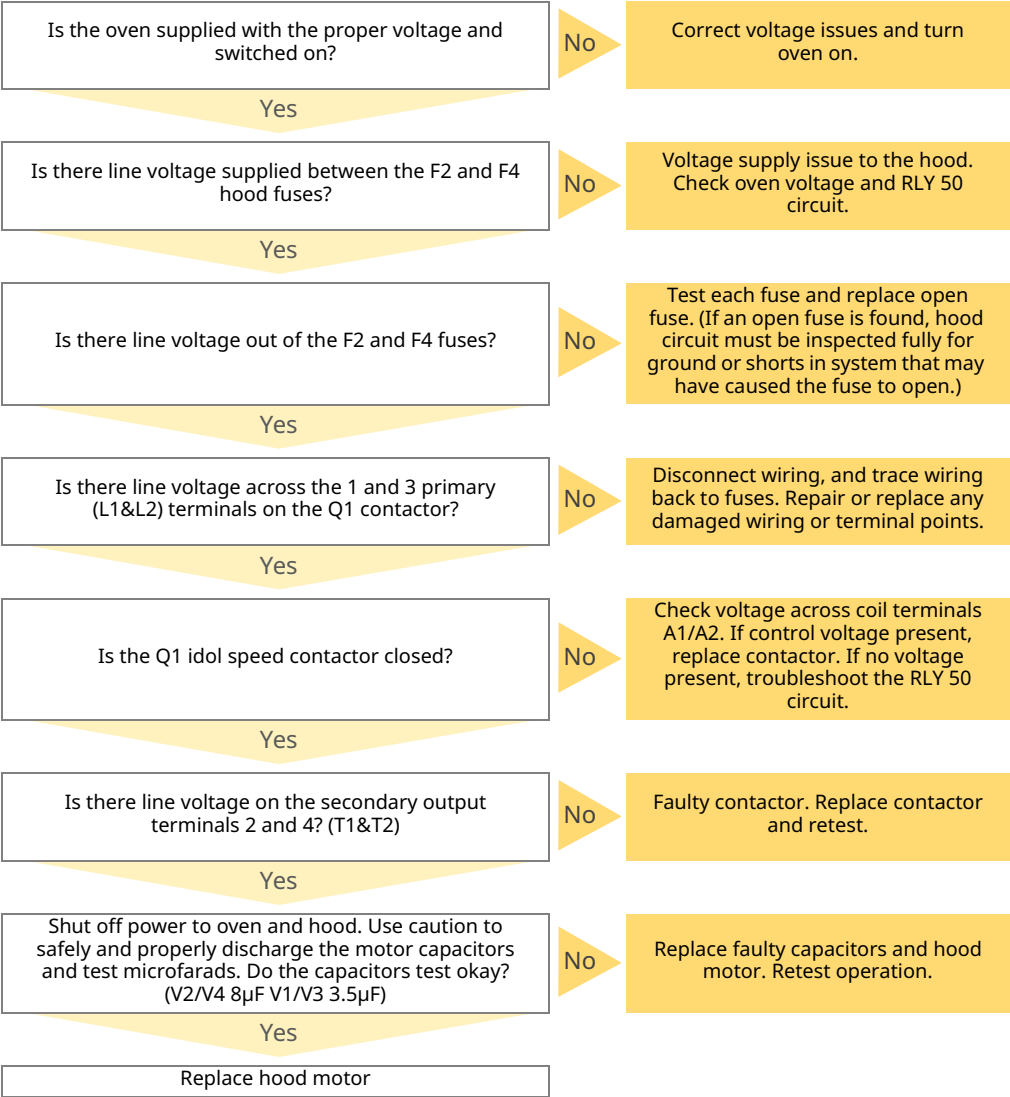
Fan Motor(s)—Not Operating

Before you start

- See topic *How to Install a Ventech™ Hood on a Single Oven.*
- Remove the electrical box cover on the hood.
- Remove the oven(s) electrical access panel(s).



WARNING: Electric shock and arc flash hazard.
Use caution when measuring line voltage.
Wear Personal Protective Equipment (PPE).




TROUBLESHOOTING

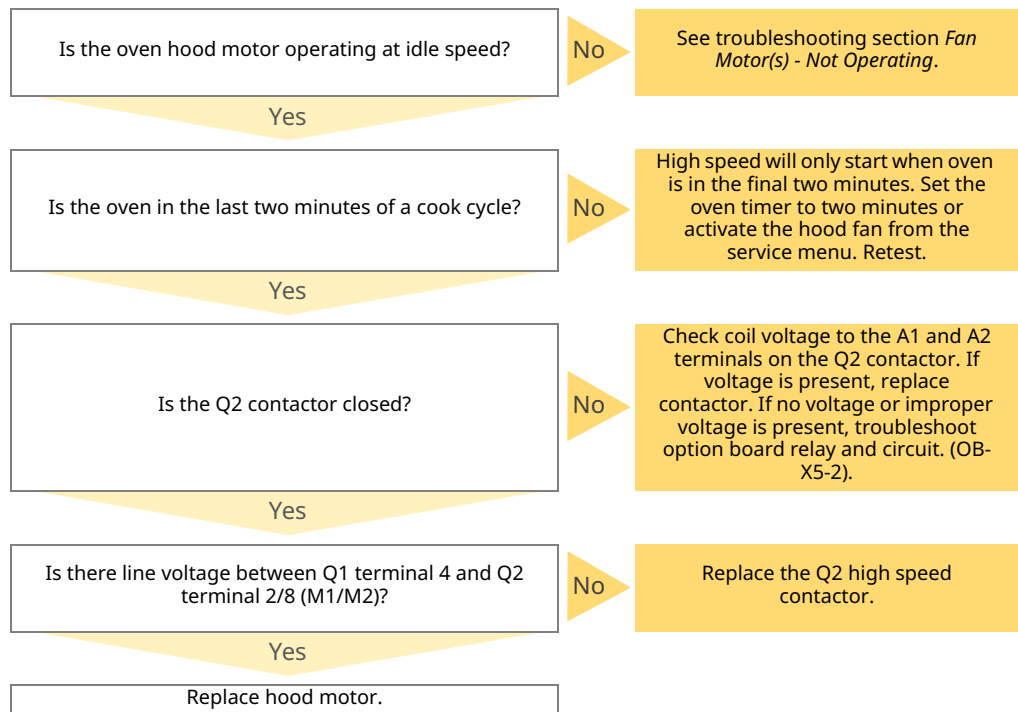
Fan Motor—No High Speed

Before you start

- See topic *How to Install a Ventech™ Hood on a Single Oven*.
- See *Operator's Manual*.
- Remove the electrical box cover on the hood.
- Put the oven into a cook mode with 3 minutes on the timer.



WARNING: Electric shock and arc flash hazard.
Use caution when measuring line voltage.
Wear Personal Protective Equipment (PPE).



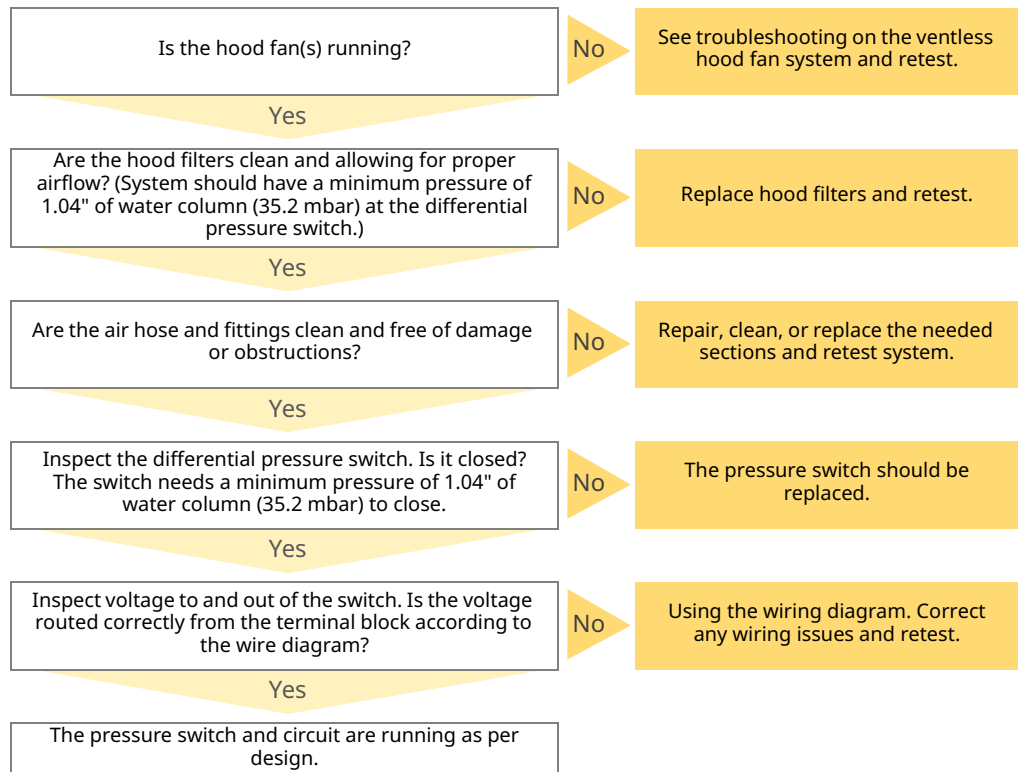
Error 101—No Pressure

Before you start

- See topic *How to Remove and Clean the Hood Filters*.
- Inspect the charcoal filters for cleanliness and correct installation. Re-install or replace the filters as required.



WARNING: Electric shock and arc flash hazard.
Use caution when measuring line voltage.
Wear Personal Protective Equipment (PPE).




See troubleshooting section *Error 102 - Filters Not Present* for further diagnostic help.

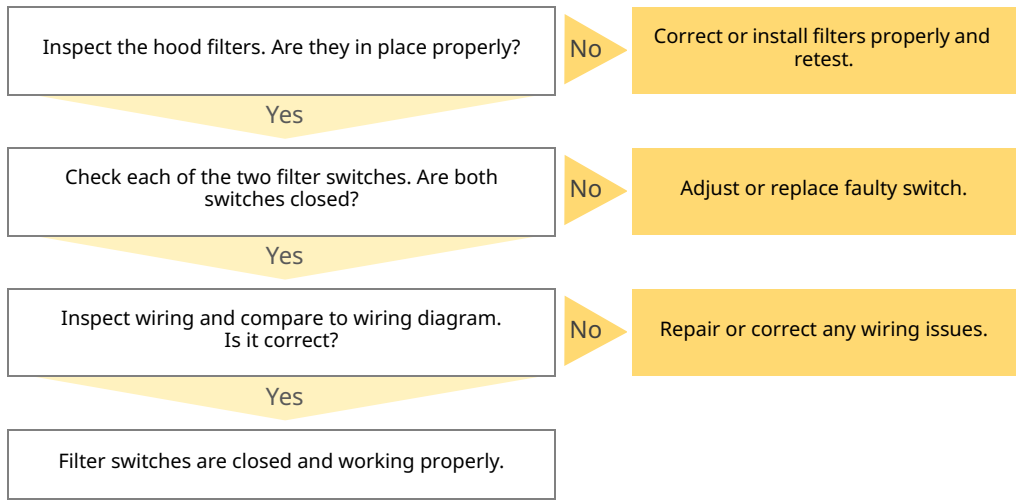
Error 102—Filters Not Present

Before you start

- Remove electrical power from the oven(s).

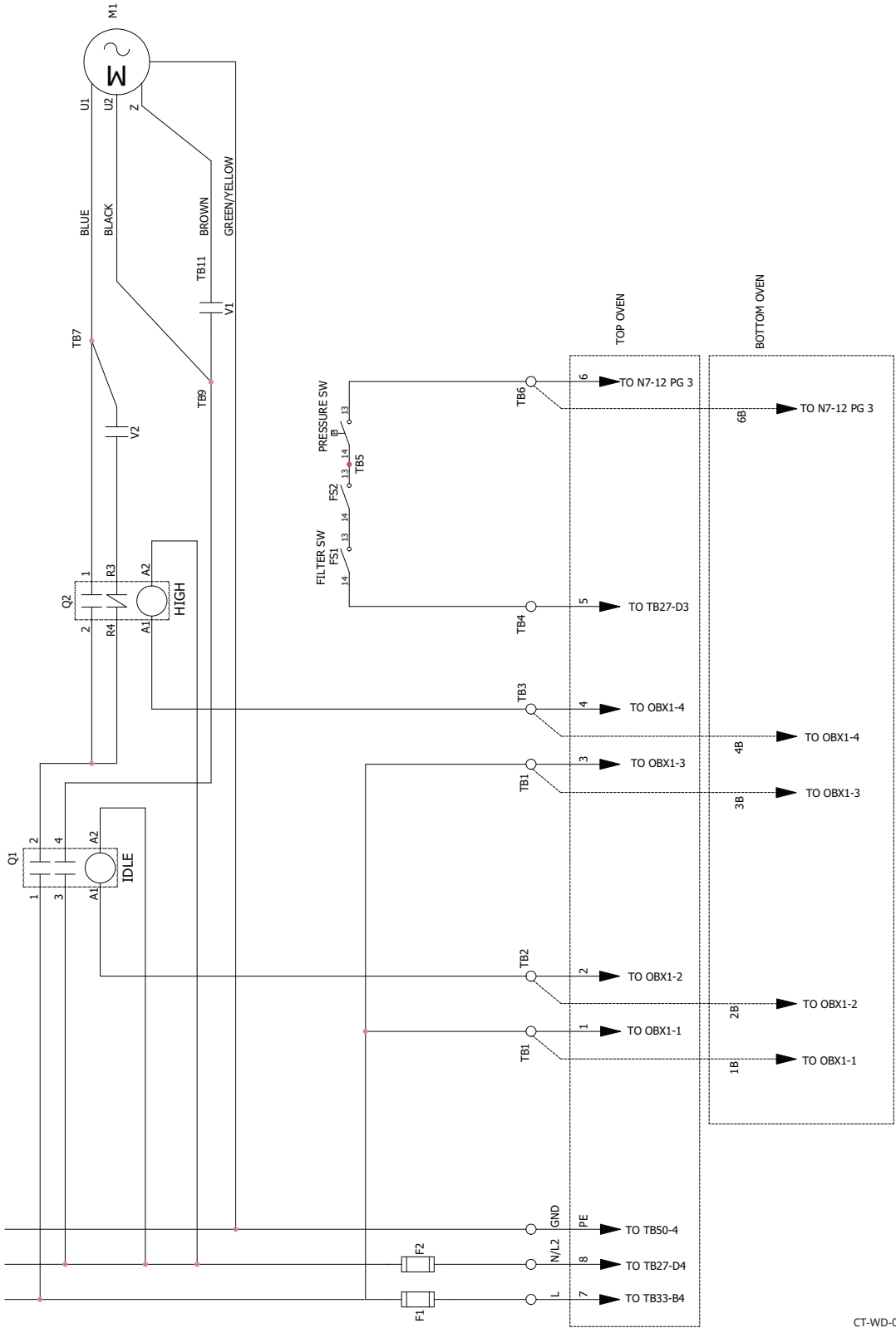


WARNING: Electric shock and arc flash hazard.
Use caution when measuring line voltage.
Wear Personal Protective Equipment (PPE).



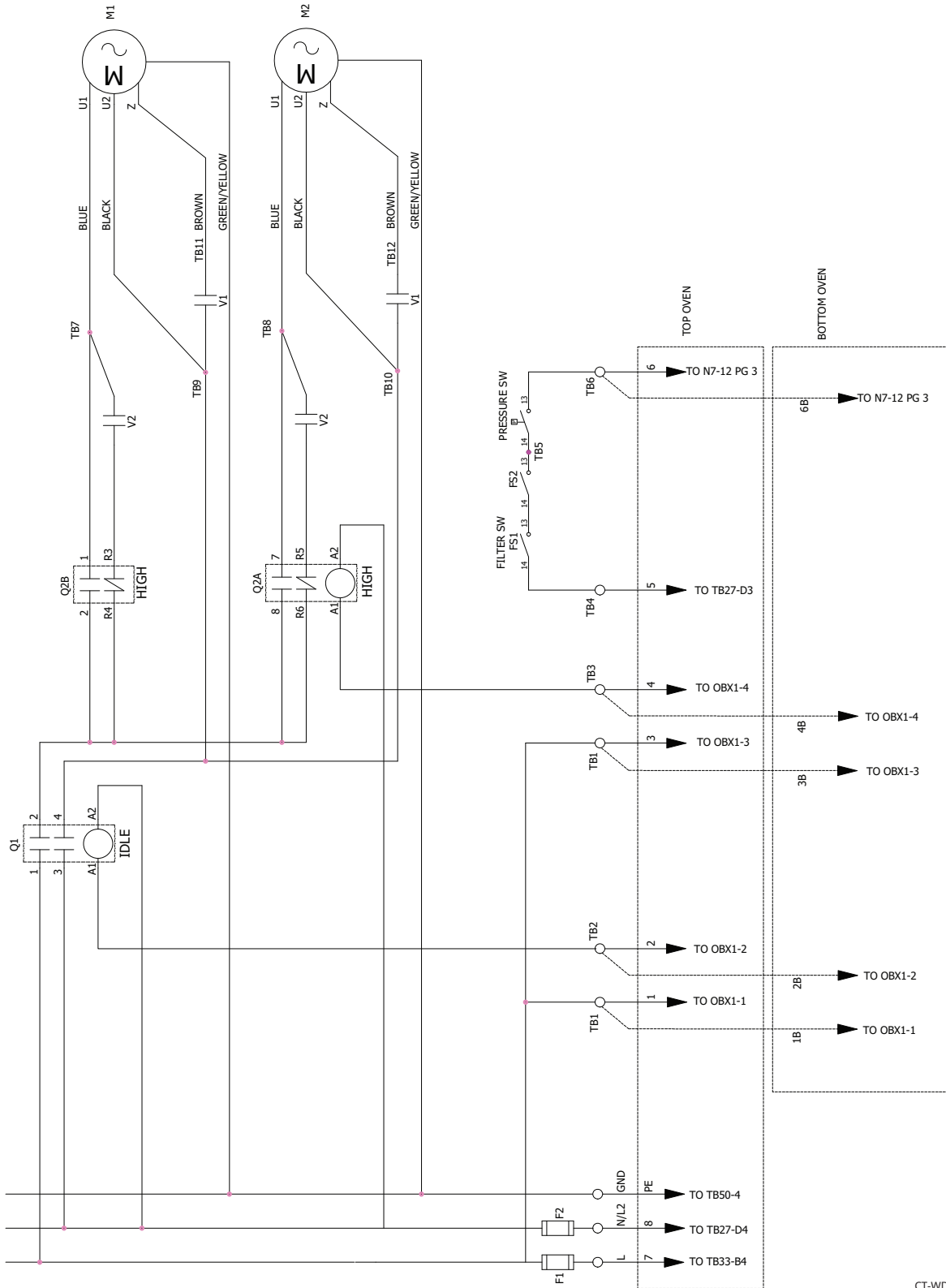
See troubleshooting section *Error 101 - No Pressure* for further diagnostic help.

VENTECH VH-10



CT-WD-015744

VENTECH VH-20



CT-WD-015746

Warranty

Introduction

Alto-Shaam, Inc. warrants to the original purchaser only, that any original part found to be defective in material or workmanship will be replaced with a new or rebuilt part at Alto-Shaam's option, subject to provisions hereinafter stated.

Warranty Period

The original parts warranty period is as follows:

- For all other original parts, one (1) year from the date of installation of appliance or fifteen (15) months from the shipping date, whichever occurs first.
- The labor warranty period is one (1) year from the date of installation or fifteen (15) months from the shipping date, whichever occurs first.
- Alto-Shaam will bear normal labor charges performed during standard business hours, excluding overtime, holiday rates or any additional fees.
- For the refrigeration compressor, if installed, the warranty period is five (5) years from the date of original installation of the appliance.
- For heating elements on Halo Heat® Cook and Hold ovens, the warranty period is for as long as the original owner owns the oven. This warranty period applies to units sold after 2/1/2009 and excludes holding-only ovens.
- To be valid, a warranty claim must be asserted during the applicable warranty period. This warranty is not transferable.

Exclusions

This warranty does not apply to:

- Calibration.
- Replacement of light bulbs, rubber gaskets, grease filters, air filters, racks, jet plates, and/or the replacement of glass due to damage of any kind.
- Equipment damage caused by accident, shipping, improper installation or alteration.
- Equipment used under conditions of abuse, misuse, carelessness or abnormal conditions, including but not limited to, equipment subjected to harsh or inappropriate chemicals, including but not limited to, compounds containing chloride or quaternary salts, poor water quality, or equipment with missing or altered serial numbers.
- Equipment damage caused by use of any cleaning agents other than those recommended by Alto-Shaam, including but not limited to damage due to chlorine or other harmful chemicals.
- Any losses or damage resulting from malfunction, including loss of food product, revenue, or consequential or incidental damages of any kind.
- Equipment modified in any manner from original model, substitution of parts other than factory authorized parts, unauthorized removal of any parts including legs, or unauthorized addition of any parts.

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WARRANTY

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- Equipment damage incurred as a direct result of poor water quality*, inadequate maintenance of steam generators and/or surfaces affected by water. Water quality and required maintenance of steam generating equipment is the responsibility of the owner/operator.
 - Equipment damage incurred as a result of not following the required maintenance schedule published in the manuals for the equipment.
-

Conclusion

This warranty is exclusive and is in lieu of all other warranties, express or implied, including the implied warranties of merchantability and fitness for a particular purpose. No person except an officer of Alto-Shaam, Inc. is authorized to modify this warranty or to incur on behalf of Alto-Shaam any other obligation or liability in connection with Alto-Shaam equipment.

**Refer to the product spec sheet for water quality standards.*



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