

Operator's Manual

Vector[®] Multi-Cook Oven Deluxe Control

VMC-H2	VMC-H2H
VMC-H3	VMC-H3H
VMC-H4	VMC-H4H

VMC-H2HW VMC-H3HW



Structured Air Technology[®]

MN-46295-EN

REV.08 10/22 For the most current manual, visit alto-shaam.com Die neueste Fassung des Handbuchs finden Sie auf alto-shaam.com Pour la dernière version du manuel, visiter alto-shaam.com Para obtener el manual más actual, visite alto-shaam.com Ga voor de meest recente handleiding naar alto-shaam.com За самой последней версией руководства обращайтесь на сайт alto-shaam.com 要查看当前最新手册,请访问 alto-shaam.com



ΕN

Manufacturer's Information

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Trademarks	All trademarks referenced in this documentation are the property of their respective owners.
Manufacturer	Alto-Shaam, Inc.
	P.O. Box 450
	W164 N9221 Water Street
	Menomonee Falls, WI 53052
Original instructions	The content in this manual is written in American English.



Enjoy your Alto-Shaam Vector Oven!

Structured AirThe Alto-Shaam Vector Oven features Structured Air Technology, giving you two,
three or four ovens in one. It gives you the flexibility to simultaneously cook a
variety of menu items with no flavor transfer. It provides the ability to control
temperature, fan speed, and time in each individual oven chamber.

Cook up to twice the food than a traditional convection oven, with no microwaves, and no water.

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.



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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 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

Structured Air Technology[®]

Alto-Shaam Vector's Structured Air Technology system allows for multiple, unique cooking chambers within the same oven. Air is delivered by a blower located in the rear of each cooking chamber. Air travels vertically through the jet plates into each chamber. The food product is blown with hot air from above and below. Structured Air plates at the top and bottom of the oven complete the upper and lower cooking chambers. Each cooking chamber is independent from the other and includes its own blower and heat source. The operator can select the optimal cooking temperature, air velocity, and cook time for each chamber either manually or through programmed recipes.

F				
		Ê		
	5:30	60%	400°	VMC-TS-000271

Configurations The Vector H Series is available in three configurations: two-, three-, and fourchamber. Intended use The Vector series ovens are intended to cook and warm food only. Any other use is prohibited. This appliance is intended to be used for commercial applications, for example in kitchens of restaurants, canteens, hospitals and in commercial enterprises such as bakeries, butcheries, etc., but not for continuous mass production of food. **Residual risks** This oven is manufactured using ISO-certified processes. The oven is designed with maximum safety in mind; however, there are residual risks to operators of this oven. Residual risks include exposure to heat and exposure to hot food products. Possible misuse Misuse of this oven includes loading the oven with anything other than a food product. Misuse also includes heating or cooking any food product that contains alcohol or other flammable substance.



Safety Precautions

Before you begin	Read and understand all instructions in this manual.			
Electrical precautions	Obey these electrical precautions when using the appliance:			
	Connect the appliance to a properly grounded outlet. Do not use the appliance if it is not properly grounded. Consult an electrician if there is any doubt that the outlet used is properly grounded.			
	Keep the cord away from hot surfaces.			
	Do not attempt to service the appliance or its cord and plug.			
	Do not operate the appliance if it has a damaged cord or plug.			
	Do not immerse the cord or plug in water.			
	Do not let the cord hang over the edge of a table or counter.			
	Do not use an extension cord.			
Usage precautions	Obey these usage precautions when using the appliance:			
	Only use this appliance for its intended use of heating or cooking.			
	 Always keep liquids, or foods that can become liquid when heated, level and at or below eye level where they can be seen. 			
	Use utensils and protective clothing such as dry oven mitts when loading and unloading the appliance.			
	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 cover racks or any other part of this appliance with metal foil.			
	Do not use this appliance near water such as a sink, in a wet location, near a swimming pool, or similar locations.			
	Do not unplug or disconnect the appliance immediately after cooking. The cooling fans must stay on to protect electrical components.			
Maintenance	Obey these maintenance precautions when maintaining the appliance:			
precautions	Obey precautions in the manual, on tags, and on labels attached to or shipped with the appliance.			
	Only clean the appliance when oven is OFF.			
	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 the appliance cavity for storage.			
	Do not leave flammable materials, cooking utensils, or food inside the appliance when it is not in use.			
	Do not remove the top cover or side panels. There are no user-serviceable components inside.			



SAFETY

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	Only use the appliance when:
appliance	 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 will void the warranty and relieve Alto-Shaam of all liability. Original manufacturer's replacement parts may be substituted; however, these parts must be of equal quality and specifications as those provided by Alto-Shaam.
	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 A-weighted sound pressure level is below 70 dB(A).

Personal Protective Equipment (PPE)

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

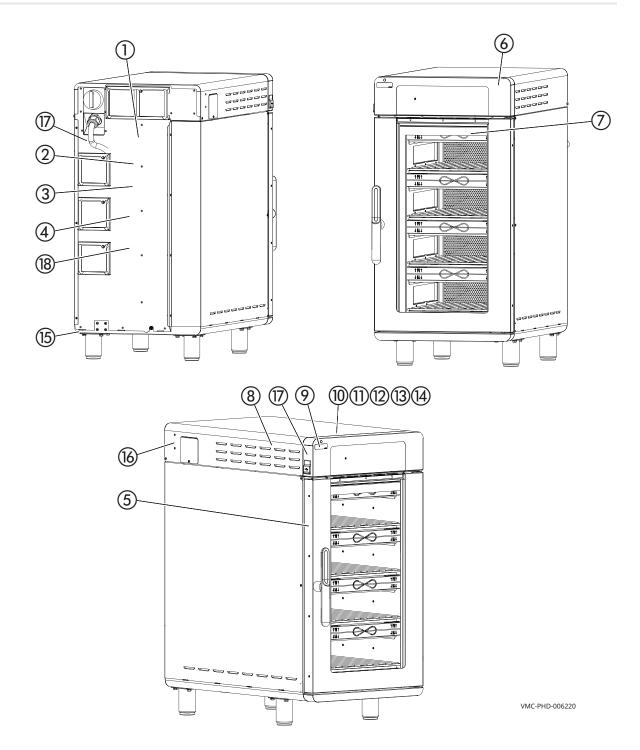
- Protective gloves
- Protective clothing
- Eye protection
- Face protection



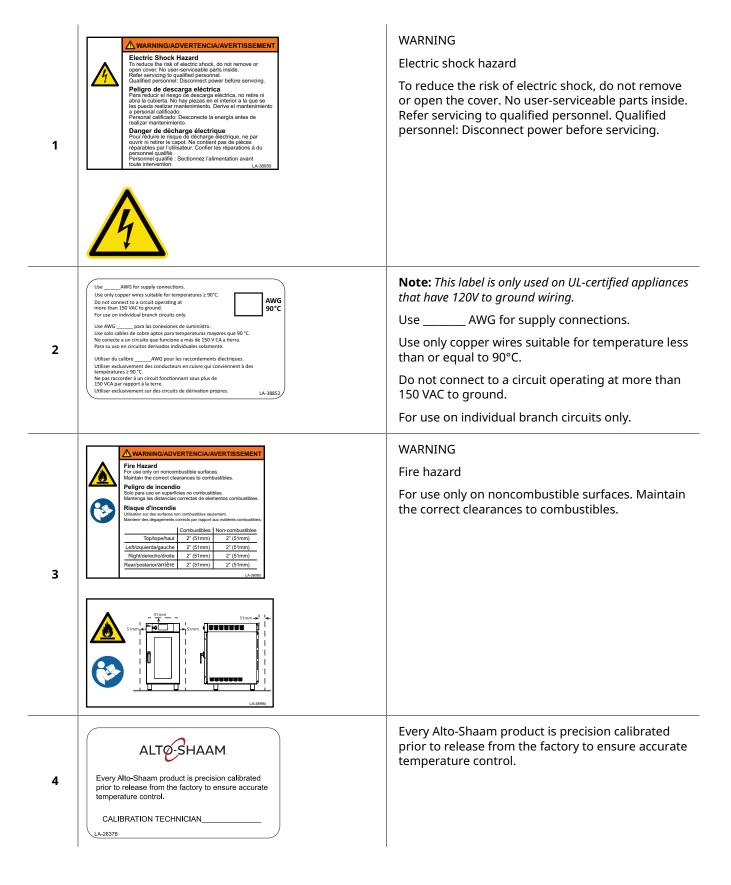
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Label Locations

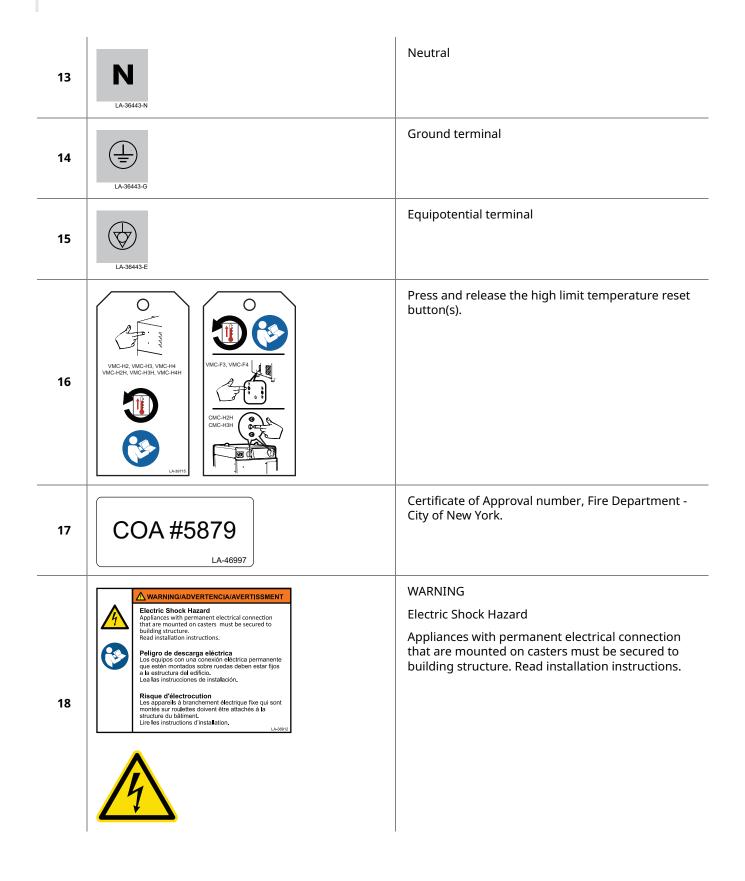






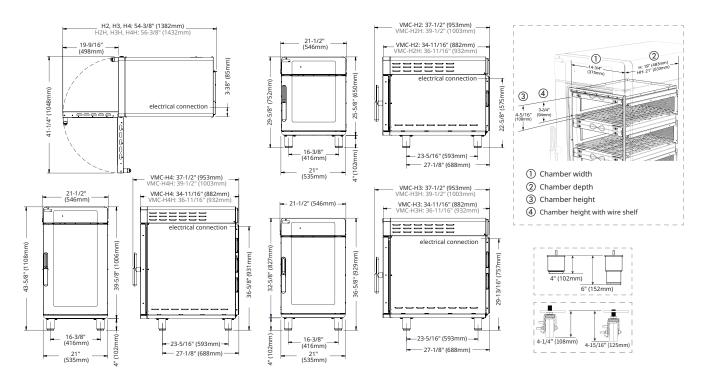


5		WARNING Hot surface
6	MADE IN U.S.A.	Made in U.S.A.
7	Image: Construction of the second s	WARNING Burn hazard Always load liquids, or foods that can become liquid when heated, at an eye level where they can be seen.
8	EPOLINI SPORT SPOR	Security seal
9	Check fans Compruebe los ventiladores Vérifiez les ventilateurs LA-39033	Check fans
10	L1 LA-36443-L1	Line 1 supply terminal
11	L2 LA-36443-L2	Line 2 supply terminal
12	L3 LA-36443-L3	Line 3 supply terminal



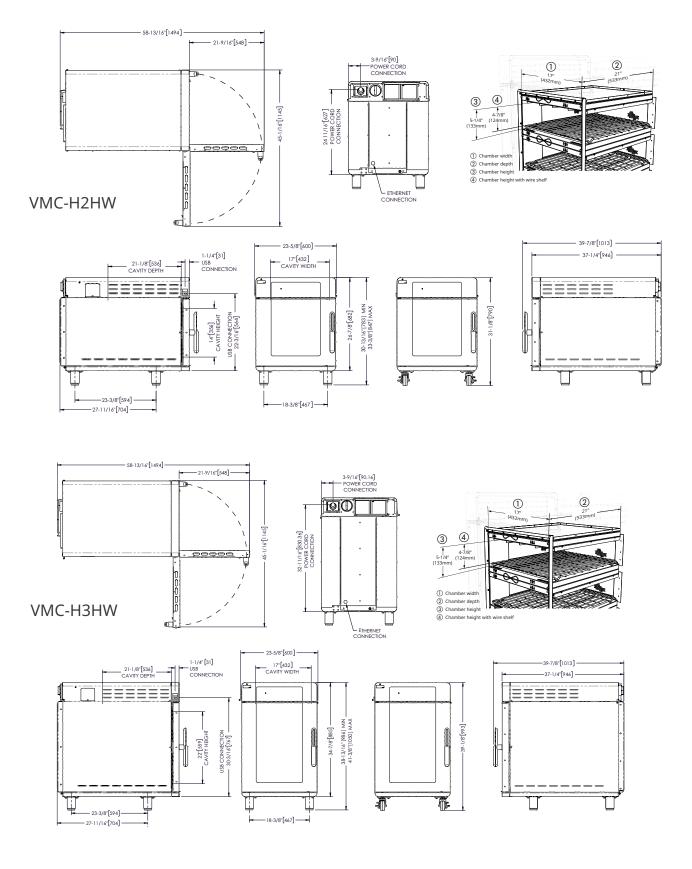


Dimension Drawings



INSTALLATION





How to Receive the Appliance

Responsible parties	When an Alto-Shaam [®] preferred carrier is used, shipping damage is a matter between Alto-Shaam and the carrier. In such cases, contact Alto-Shaam customer service.		
When an Alto-Shaam non-preferred carrier is used, shipping damage between the carrier and the consignee. In such cases, the carrier is as be responsible for the safe delivery of the merchandise, unless neglig be established on part of the shipper.			
Receive the appliance	When re	eceiving the appliance, do the following.	
	Step	Action	
	1.	Inspect the equipment while it is still in the truck or immediately after it is moved to the receiving area. Do not wait until after the equipment is moved to a storage area.	
	2.	Inspect and count all merchandise received. Do not sign a delivery receipt or a freight bill until you have done so.	
	3.	Note all damage to packaging and to the equipment on the carrier's receipt.	
	4.	Request the driver sign the delivery receipt. If the driver refuses to sign, make a note of this refusal on the delivery receipt.	
	5.	Write the following on the delivery receipt if the driver refuses to allow an inspection: Driver refuses to allow inspection of containers for visible damage.	
	6.	Contact the carrier immediately upon finding damage, and request an inspection. Follow the carrier's policies and procedures.	
Alto-Shaam policy	been pr damage	policy of Alto-Shaam to assist customers in collecting claims that have operly filed and actively pursued. Alto-Shaam cannot, however, file claims, assume the responsibilities for damage claims, or accept ons in payment for damage claims.	



How to Unpack the Oven

Before you begin	Make s	ure you have:		
	the - \ - \ - \ - \	appropriate lifting device and enough personnel to safely move and position e weight of the oven.		
Unpack the oven	To unpa	ack the oven, do the following.		
	Step	Action		
	1.	Remove the box. Save all packing materials for inspection by the carrier.		
		NOTE: Examine the appliance for damage. If the appliance has been damaged, do not use the appliance until it has been inspected by an authorized service provider. Contact your carrier or Alto-Shaam customer service.		
	2.	Remove the shrink wrap.		
	3.	Cut the restraining straps.		
	4.	Remove the tape ① that holds the filters (if equipped). Remove the screws ② that holds the filters (if equipped).		
	5.	Remove the foam from each chamber.		
	6.	Remove the oven from the pallet.		

Result

The oven is now unpacked.

ChefLinc Installation Checklist

Place this form with the oven's records.

Connectivity Pre-Installation Checklist

Will you connect the oven to the Internet using Wi-Fi or Ethernet?	Wi-Fi	Ethernet	Unable to answer
--	-------	----------	------------------

Wi-Fi Connections

Is the Wi-Fi network that is to be used a WPA2 secured network?	Yes	No	Unable to answer
Is this network also used to send and receive point of sale information (credit card data, register receipts)? This is NOT recommended for any installation.	Yes	No	Unable to answer
Have you been provided with the network name (SSID) for the oven to connect to?	Yes	No	Unable to answer
Have you been provided the password for the Wi-Fi network to be used?	Yes	No	Unable to answer
At the final location that the oven will be installed, can you connect to the Wi-Fi system with your phone?	Yes	No	Unable to answer
Using your phones Wi-Fi connection, are you able to connect to alto-shaam.com? You are testing for any additional security on the network to block access to external sites. You will need to turn off your cellular service on your phone to make sure you're using the Wi-Fi network.	Yes	No	Unable to answer

Ethernet Connections

At the final location that the oven will be installed, is there an open Ethernet port conveniently located?	Yes	No	Unable to answer	
Is the Ethernet port live (providing Internet access)?	Yes	No	Unable to answer	
Is the Ethernet harness accessory ordered with the unit?	Yes	No	Unable to answer	
Is there site action required?	Yes	No		

Action required:



Connectivity Installation Checklist Refer to Network Status screen

What is your connection type?	Wi-Fi	Ethernet
What color is the network status icon?	Red Yellov	w Green
What is the Internet status?	Connected	Not connected
What is the cloud status?	Connected	Not connected
What is the update server status?	Connected	Not connected
What is the SSID (network name)?		
What is the password?		
What is the IP address?		
What is the Front End (FE) software version number?		
What is the Back End (BE) software version number?		
What is the Control Board (CB) software version number?		
is this the latest software version?		
Validate via: https://www.alto-shaam.com/en/customer- support/software-downloads	Yes	No



How to Install the Oven (60 Hz Cord and Plug Models)

Before you begin	Make sure you have:
	An appropriate lifting device, and enough personnel, to safely move and position the weight of the oven.
	VMC-H2/H2H: 213 lb (97 kg)
	VMC-H3/H3H: 278 lb (126 kg)
	VMC-H4/H4H: 348 lb (158 kg)
	VMC-H2HW: 243 lb (110 kg)
	VMC-H3HW: 312 lb (142 kg)
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.
Voltages	
	V Ph Hz A Breaker* kW Plug Configuration

	v	Ph	Hz	A	Breaker*	kW	Plug Configuration
VMC-H2/	208	1	60	25	30	5.2	NEMA 6-30P
VMC-H2H	240	1	60	28	30	6.7	NEMA 6-30P
VMC-H3/	208	1	60	38	50	7.9	NEMA 6-50P
VMC-H3H	240	1	60	43	50	10.3	NEMA 6-50P
	208	3	60	22	30	7.9	NEMA 15-30P
	240	3	60	25	30	10.3	NEMA 15-30P
VMC-H4/	208	3	60	33	40	10.6	NEMA 15-50P
VMC-H4H	240	3	60	38	40	13.9	NEMA 15-50P
VMC-H2HW	208	1	60	33	50	6.9	NEMA 6-50P
	240	1	60	38	50	9.1	NEMA 6-50P
	208	3	60	19	40	6.9	NEMA 15-30P
	240	3	60	22	40	9.1	NEMA 15-30P
VMC-H3HW	208	3	60	29	50	10.5	NEMA 15-50P
	240	3	60	33	50	13.6	NEMA 15-50P

*Electrical connections must meet all applicable federal, state, and local codes.



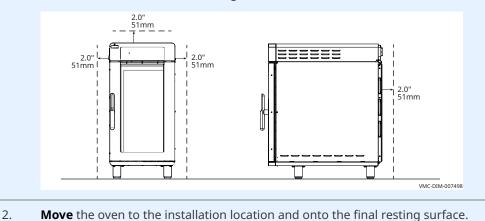
Position the oven

To position the oven, do the following.

Step Action

1. Make sure that:

- The location where the oven is being installed is rated to support the weight of the oven;
- The oven is within five feet (1.5m) of the appropriate electrical outlet;
- You follow the oven clearance guidelines.



The oven is now correctly positioned.

Level the oven

To level the oven, do the following.

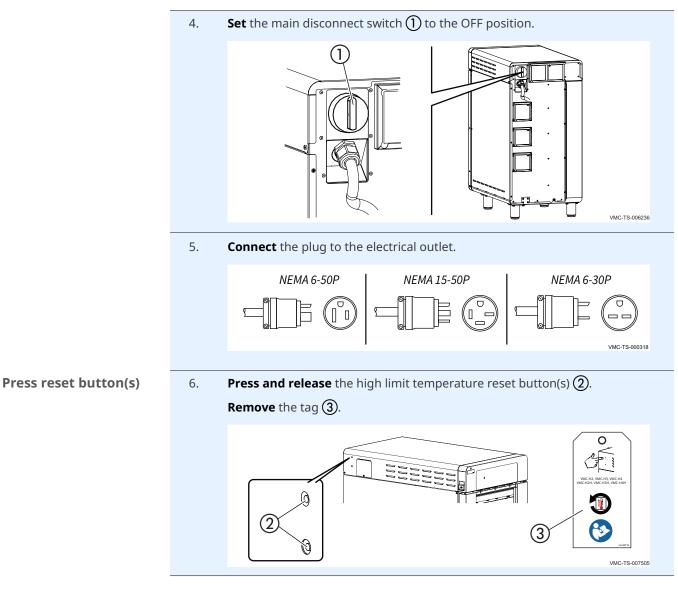
3. Check the level of the oven using a spirit (bubble) level. Check front to back and side to side.



The oven is now correctly positioned.



Connect power To connect electric power to the oven, do the following.



Result

The oven is now installed and ready to be used.



How to Install the Oven (60 Hz Models Without Cords or Plugs)

Before you begin	Make sure you have:						
	 Appropriate cord and plug. See local codes and regulations. Screwdriver (Phillips #2) Nut driver (1/4-inch) 						
	 An appropriate lifting device, and enough personnel, to safely move and position the weight of the oven. 						
	□ VMC-H2/H2H: 213 lb (97 kg)						
	□ VMC-H3/H3H: 278 lb (126 kg)						
	VMC-H4/H4H: 348 lb (158 kg)						
	VMC-H2HW: 243 lb (110 kg)						
	□ VMC-H3HW: 312 lb (142 kg)						
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.						



Voltages

	v	Ph	Hz	Α	Breaker*	kW
VMC-H2/	220	1	50/60	25	32	5.4
VMC-H2H	240	1	50/60	28	32	6.4
	380	3	50/60	12	16	5.4
	415	3	50/60	13	16	6.4
VMC-H3/	220	1	50/60	37	63	8.1
VMC-H3H	240	1	50/60	41	63	9.6
	380	3	50/60	12	16	8.1
	415	3	50/60	13	16	9.6
VMC-H4/	380	3	50/60	23	32	10.8
VMC-H4H	415	3	50/60	25	32	12.7
VMC-H2HW	208	1	60	33	50	6.9
	240	1	60	38	50	9.1
	208	3	60	19	40	6.9
	240	3	60	22	40	9.1
VMC-H3HW	208	3	60	29	50	10.5
	240	3	60	33	50	13.6

*Electrical connections must meet all applicable federal, state, and local codes.



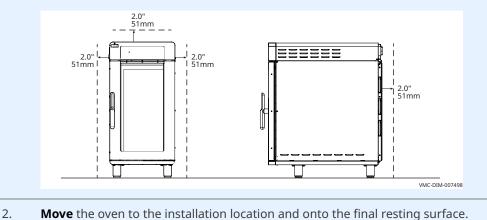
Position the oven

To position the oven, do the following.

Step Action

1. Make sure that:

- The location where the oven is being installed is rated to support the weight of the oven,
- The oven is within five feet of the appropriate electrical outlet,
- You follow the oven clearance guidelines.

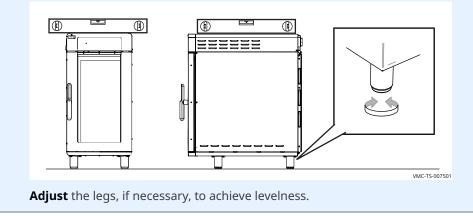


The oven is now correctly positioned.

Level the oven

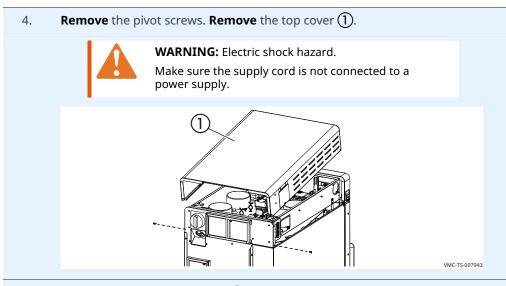
To level the oven, do the following.

3. **Check** the level of the oven using a spirit (bubble) level. Check front to back and side to side.

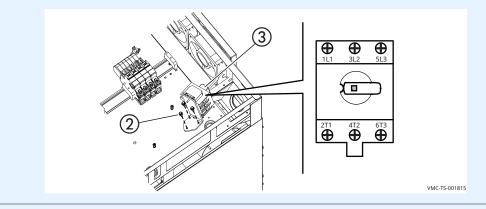




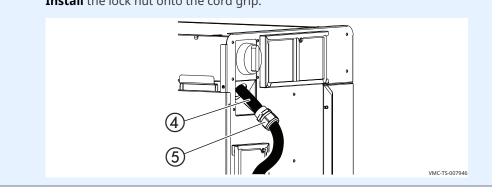
Connect the wiring To connect the wiring, do the following.



Remove the bottom 3 screws 2 from the mounting bracket.
 Remove the main disconnect switch 3 from the mounting bracket.



Install the cord ④ through the cord grip ⑤ and install to oven.
 Install the lock nut onto the cord grip.



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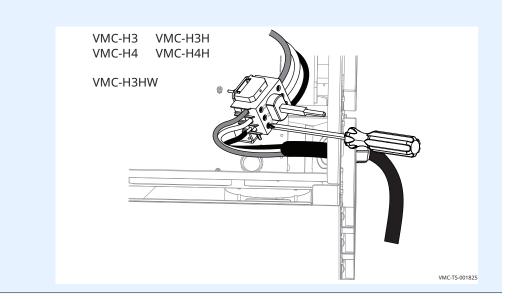


7. Connect the supply cord to the appropriate terminals (L1, L2, L3, etc.) in accordance with local codes and regulations.

 VMC-H2
 VMC-H2H

 VMC-H3
 VMC-H3H

 VMC-H2HW
 VMC-H3HW



Continued on next page

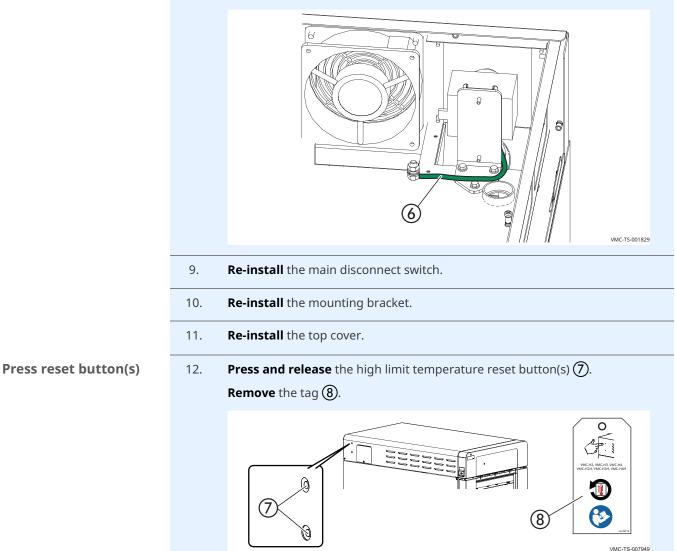
VMC-TS-001821



8. **Install** the ground wire **(6)**.

Adjust the cord length.

Tighten the cord grip sealing nut onto the supply cord.



Result

The oven is now installed.



How to Install the Oven

(50/60 Hz Models Without Cords or Plugs)



WARNING: Electric shock hazard. Make sure the supply cord and plug have an earth connection (ground).

Before you begin

Make sure you have:

- Appropriate cord and plug, minimum oil resistant HO7RN-F. See local codes and regulations.
- Screwdriver (Phillips #2)
- Nut driver (1/4-inch)
- An appropriate lifting device, and enough personnel, to safely move and position the weight of the oven.
 - VMC-H2/H2H: 213 lb (97 kg)
 - □ VMC-H3/H3H: 278 lb (126 kg)
 - □ VMC-H4/H4H: 348 lb (158 kg)
 - VMC-H2HW: 243 lb (110 kg)
 - VMC-H3HW: 312 lb (142 kg)

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.
- If required by local codes, use Type F RCD.
- The oven is not intended for built-in installation.



Voltages

	v	Ph	Hz	А	Breaker*	kW	Wire Size (mm)
VMC-H2H	220	1	50	25	32	5.4	4
220–240V	240	1	50	28	32	6.4	4
380-415V	380	3	50	12	16	5.4	1.5
	415	3	50	13	16	6.4	1.5
VMC-H3H	220	1	50	37	63	8.1	10
220–240V	240	1	50	41	63	9.6	10
380-415V	380	3	50	12	16	8.1	1.5
	415	3	50	13	16	9.6	1.5
VMC-H4H	380	3	50	23	32	10.8	4
380–415V	415	3	50	25	32	12.7	4
VMC-H2HW	200	1	50/60	32	50	6.5	8
200–240V	240	1	50/60	38	50	9.1	8
200-240V	200	3	50/60	18	40	6.5	10
	240	3	50/60	22	40	9.1	10
220-240V	220	1	50/60	35	63	7.7	10
	240	1	50/60	38	63	9.1	10
380-415V	380	3	50/60	20	32	7.7	4
	415	3	50/60	22	32	9.1	4
VMC-H3HW	200	3	50/60	28	50	9.7	8
200–240V	240	3	50/60	33	50	13.6	8
380-415V	380	3	50/60	30	63	11.5	6
	415	3	50/60	33	63	13.6	6

*Electrical connections must meet all applicable federal, state, and local codes.



INSTALLATION

Continued from previous page

Wire sizes

Rated current of appliance A	Nominal cross-sectional area mm ²
>0.2 - ≤3	0.5
>3 – ≤0	0.75
>6 – ≤10	1.0
>10 – ≤16	1.5
>16 - ≤25	2.5
>25 - ≤32	4
>32 – ≤40	6
>40 - ≤63	10
	1

Position the oven

To position the oven, do the following.

Step Action Make sure that: The location where the oven is being installed is rated to support the weight of the oven, The oven is within five feet of the appropriate electrical outlet, You follow the oven clearance guidelines.

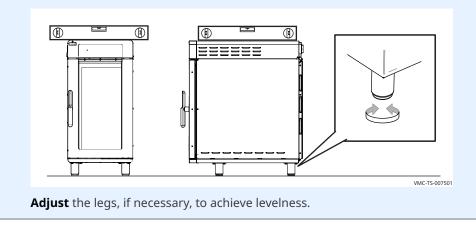
2. **Move** the oven to the installation location and onto the final resting surface.

The oven is now correctly positioned.



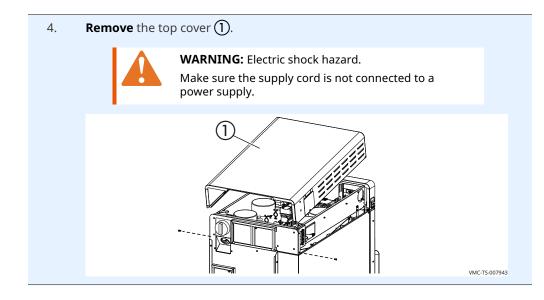
Level the oven To level the oven, do the following.

3. **Check** the level of the oven using a spirit (bubble) level. Check front to back and side to side.

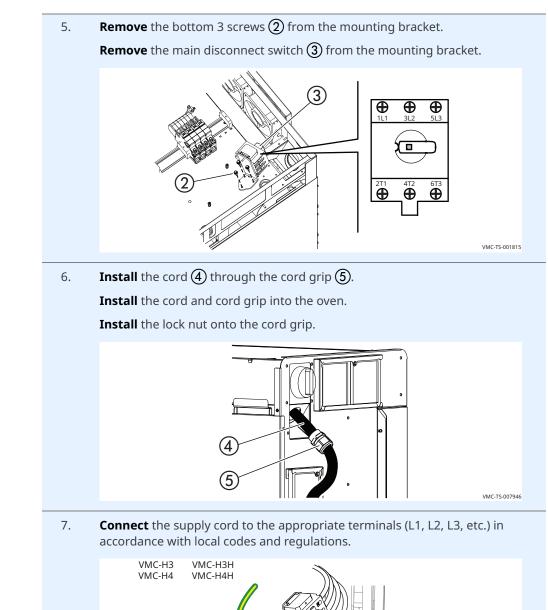


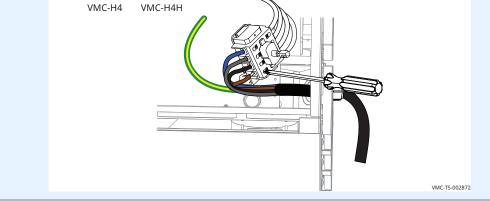
The oven is now level.

Connect the wiring To connect the wiring, do the following.







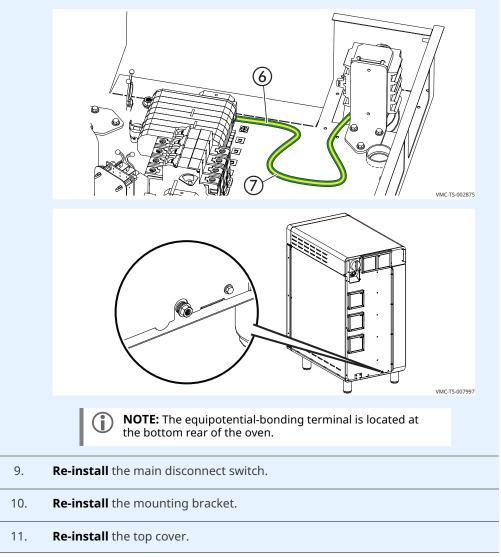




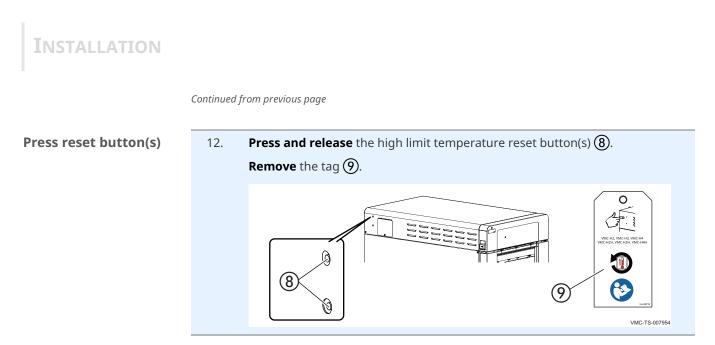
8. **Install** the ground wire **(6)**.

Leave an extra loop ⑦ so that current-carrying conductors become taut before the ground wire if the cord is accidentally pulled. Follow applicable regulations.

Tighten the cord grip sealing nut onto the supply cord.







Result

The oven is now installed.



How to Install the Oven on a Stand (VMC-H2/H2H, VMC-H3/H3H, VMC-H4/H4H)

Before you begin

Make sure you have:

- The appropriate stand for your oven
- Regulation UL 197, 91.8
- An appropriate lifting device, and enough personnel, to safely move and position the weight of the oven.
 - VMC-H2/H2H: 213 lb (97 kg)
 - VMC-H3/H3H: 278 lb (126 kg)
 - VMC-H4/H4H: 348 lb (158 kg)

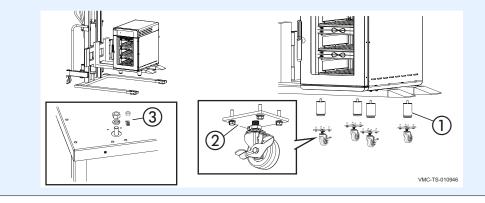
Procedure

To install the ovens on a stand, do the following.

Step Action

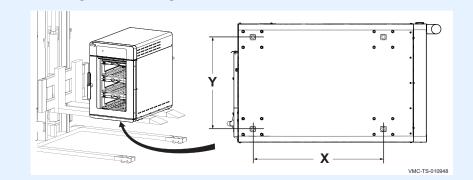
1. **Lift** the oven using an appropriate lifting device. **Remove** the feet (1), or if the unit has casters (2), remove them including the mounting plates.

Note the location of the fasteners (3) and **remove** them from the stand. Save the fasteners for re-use.

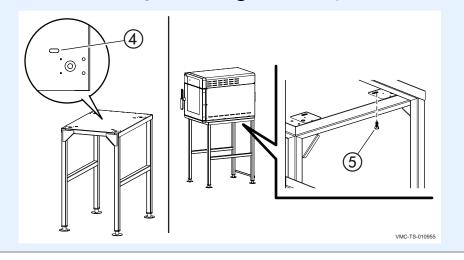




2. While the oven is still on the lifting device, **measure** the distance between the mounting holes of the legs/casters (**X** and **Y**).



3. **Place** the oven on the stand. Use the hole pattern ④ on the stand that corresponds to the hole pattern of the oven measured in step 2. **Connect** the oven to the stand using the hardware ⑤ removed in step 1.



Result

The oven is now installed to the stand.



How to Install the Oven on a Stand (VMC-H2HW, VMC-H3HW)

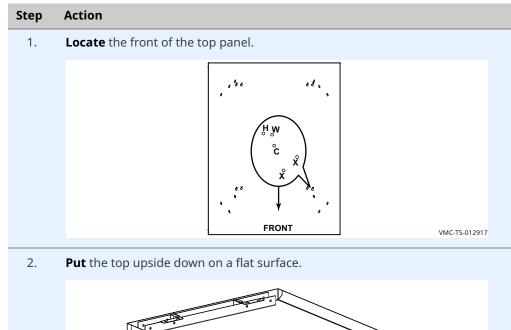
Before	you	begin	Mak

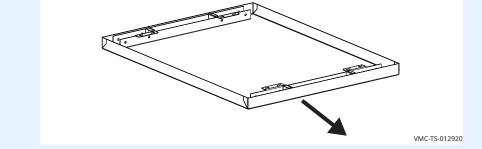
Make sure you have:

- The appropriate stand for your oven
- Regulation UL 197, 91.8
- An appropriate lifting device, and enough personnel, to safely move and position the weight of the oven.
 - VMC-H2HW: 243 lb (110 kg)
 - □ VMC-H3HW: 312 lb (142 kg)

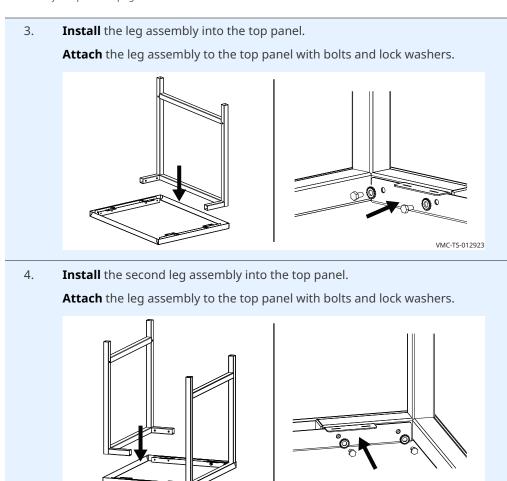
Procedure

To install the ovens on a stand, do the following.

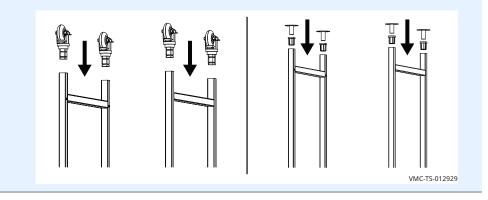








5. **Install** the casters or the feet assemblies into the legs.



Continued on next page

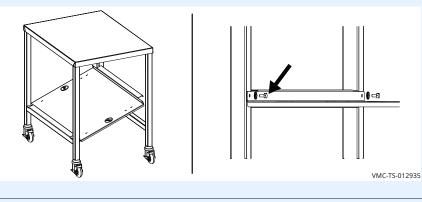
VMC-TS-012926



Installing the shelf (optional)

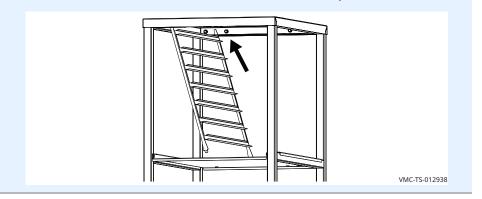
6. **Determine** which way the slots are to be oriented. 8 \otimes _ VMC-TS-012932 7. Install the shelf onto the leg assemblies.

Attach the shelf to the leg assemblies with bolts and lock washers.

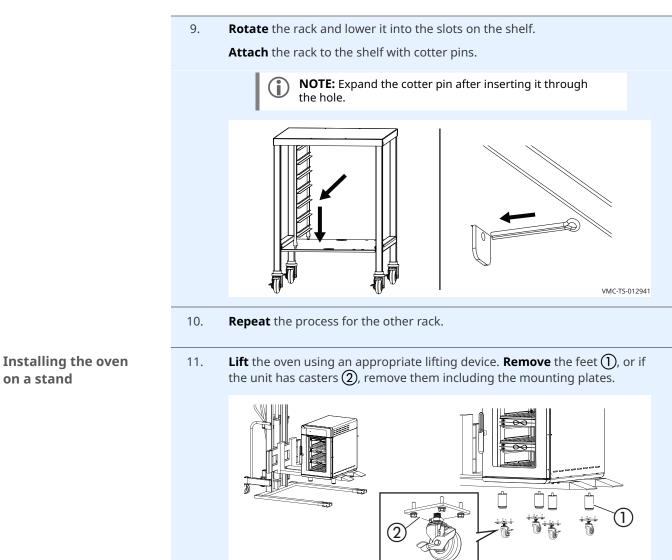


Installing the racks (optional)

8. **Install** the rack into the slots on the underside of the top.



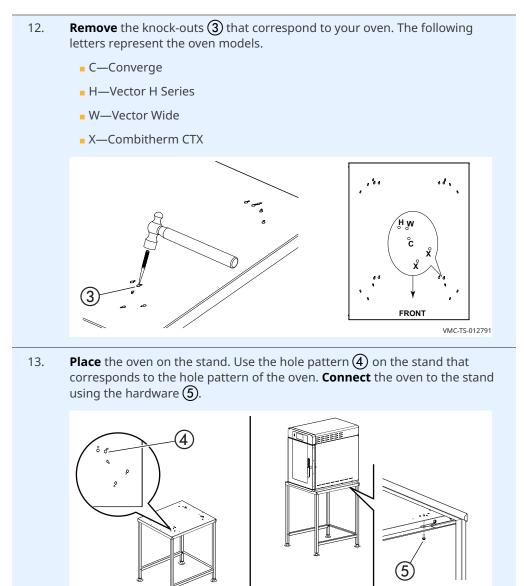




Continued on next page

VMC-TS-012788

on a stand



Result

The oven is now installed to the stand.



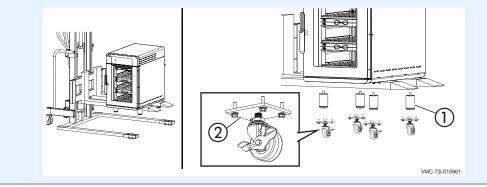
VMC-TS-012794

How to Install the Oven on Casters (if required)

Make sure you have:				
The appropriate stand for your oven				
Regulation UL 197, 91.8				
 An appropriate lifting device, and enough personnel, to safely move and position the weight of the oven. 				
VMC-H2/H2H: 213 lb (97 kg)				
□ VMC-H3/H3H: 278 lb (126 kg)				
VMC-H4/H4H: 348 lb (158 kg)				
VMC-H2HW: 243 lb (110 kg)				
VMC-H3HW: 312 lb (142 kg)				
Some stand-oven combinations require installing casters on the oven meant to be under the stand.				
(if required) To install the casters on the lower oven, do the following.				

Step Action

1. **Lift** the oven using an appropriate lifting device. **Remove** the feet (1). **Attach** each caster (2) with fasteners as shown.

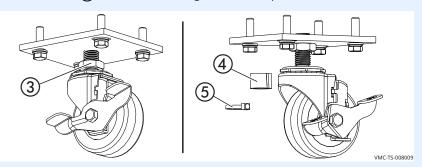


3.

2. **Level** the unit as necessary. To do so, screw the wheel up or down until the unit is level. Tighten the jam nut (3).

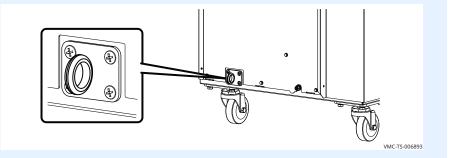
Slide a piece of the tubing 4 over the exposed screws if more than 1/4-inch of thread is exposed.

Attach wire tie (5) around the tubing to hold it in place.



Install the tether

Install the tether to the lower oven. Install the tether so that no stress is transmitted to the electrical cord when the oven moves.



Result

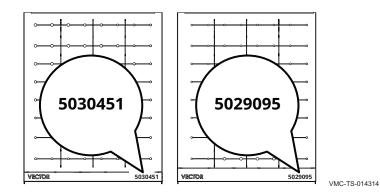
The casters are now installed.



How to Install the Jet Plates (VMC-H2HW, VMC-H3HW)

Background

Each jet plate assembly consists of one inner panel and one outer panel. There are two unique jet plate assemblies used on the Vector Wide oven. The difference is in the outer panel used. One type (5029095) is used on the lower section of each chamber. The other type (5030451) is used on the upper section of each chamber. The inner panels used are the same for both types of assemblies.

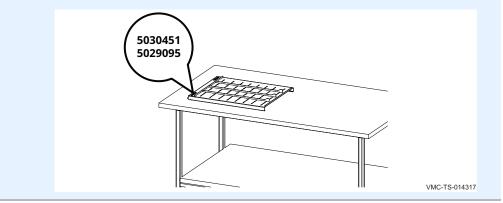


Procedure

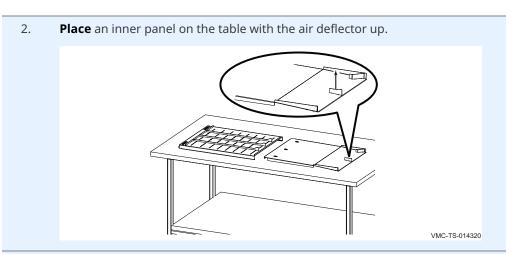
To install the jet plates, do the following.

Step Action

1. Each outer panel has the part number etched into the right corner. **Locate** the part number on all outer panels. **Place** an outer panel on a table with the part number facing up.

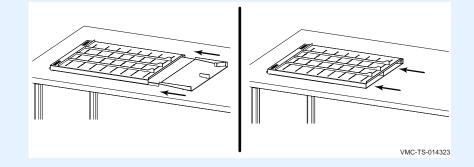




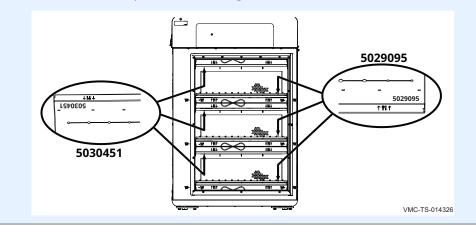


3. **Insert** the inner panel into the outer panel. **Push** the inner panel into the outer panel until it is fully inserted.

Assemble all jet plates in a similar fashion.

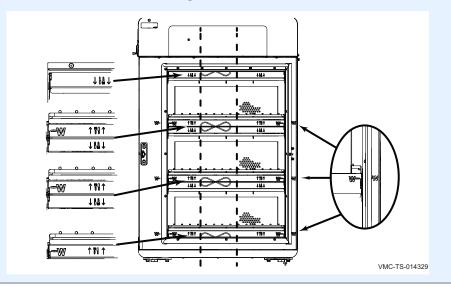


4. **Install** jet plates 5029095 in the lower section of each chamber with the part number facing up. **Install** jet plates 5030451 in the upper section of each chamber with the part number facing down.





- 5. **Follow** the steps below and inspect the installation of the jet plates.
 - Make sure the ∞ symbols are aligned.
 - Make sure the fork and knife arrows point to the product in each chamber.
 - On later production jet plates which include a "W" etched into them, make sure the "W" etched aligns with the "W" etched in the door frame.



Result

The jet plates are now installed.



How to View and Set up Network Connections

Before you begin

The facility must have Wi-Fi.

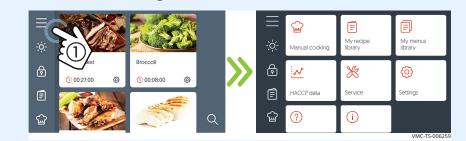
- The oven will only recognize networks that require a password to connect.
- Do not connect to a guest network.

Procedure

To set up Wi-Fi, do the following.

Step Action

1. **Touch** the menu icon ①. The menu screen displays.



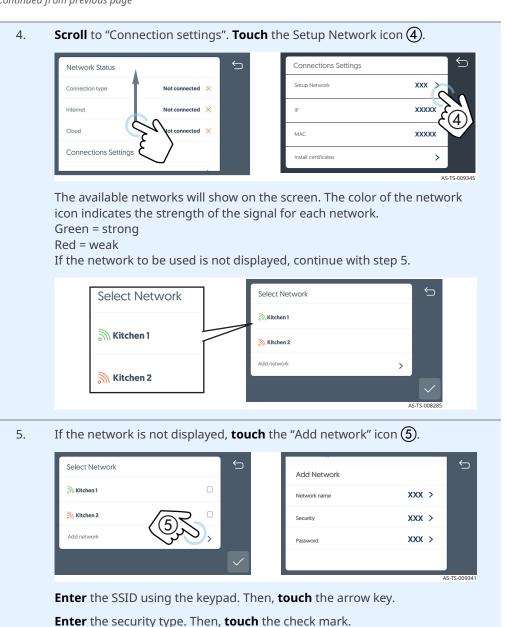
2. **Touch** the settings icon **(2)**. The general settings screen displays.



3. **Touch** the Wi-Fi icon (3). The Network Status screen displays.







Enter the password using the keypad. Then, **touch** the arrow key.

Touch the check mark when finished.

Result

The procedure is now complete.



How to Set up an Ethernet Connection

Before you begin

The facility must have an Ethernet port.

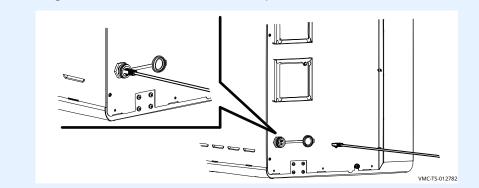
You will need an Ethernet cable.

Procedure

To set up an Ethernet connection, do the following.

Step Action

1. **Plug** the Ethernet cord into the Ethernet port on the oven and the wall outlet.



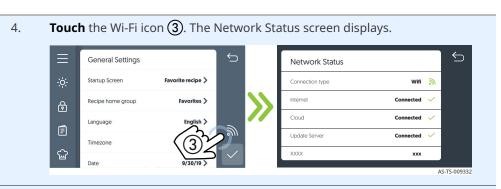
2. **Touch** the menu icon **()**. The menu screen displays.



3. **Touch** the settings icon ②. The general settings screen displays.



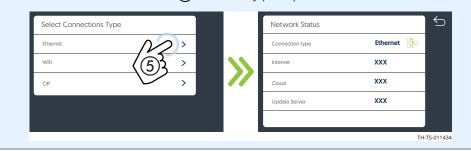




5. **Scroll** to "Connection Settings". **Touch** the Setup Network icon ④. The Select Connection Type screen displays.

Network Status		5	Connections Settings	
Connection type	Wifi 🔊		Setup Network	
Internet	Connected 🗸		SSID	XXX
Cloud	Connected 🗸		IP	xxx { (4
Update Server	E Connected ✓		MAC	ххх
XXXX			Install certificates	>

6. **Touch** the "Ethernet" icon (5). Follow any prompts.

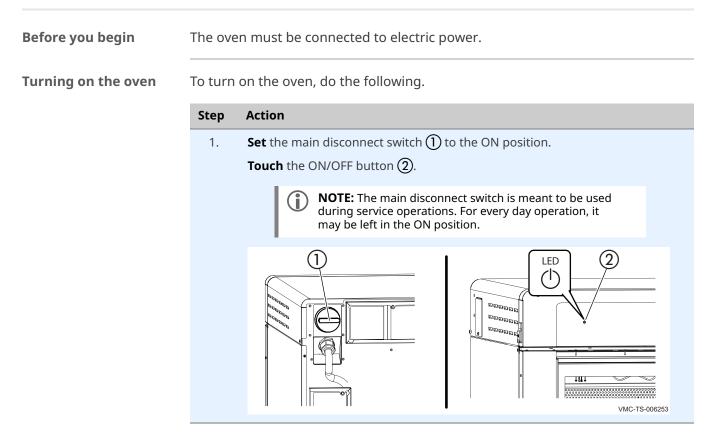


Result

The Ethernet connection is now set up.



How to Turn On and Turn Off the Oven

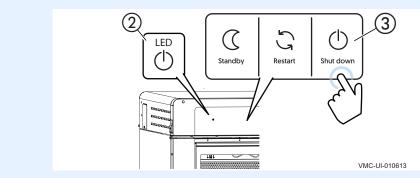


The oven is now on.

Turning off the oven

To turn off the oven, do the following.

2. **Touch** and hold the ON/OFF button ② until the "Shut down options" screen displays. **Touch** "Shut down" ③. The oven activates the blowers for the cooldown process. The cool-down process is complete when the oven deactivates the blowers and the display screen turns off.



The oven is now off.





How to Preheat the Oven

Step

Before you begin

Make sure:

The oven is turned on.

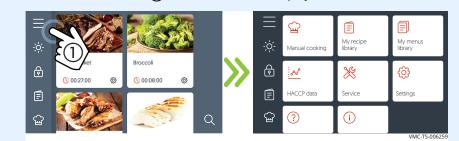
Action

The oven door is closed.

Procedure

To preheat the oven, do the following.

1. **Touch** the menu icon (1). The menu screen displays.



2. **Touch** the Settings icon (2). The general settings screen displays.



3. **Scroll** to the Temperature Settings.

Touch the preheat chamber setting ③. The existing temperature displays. **Enter** the preheat temperature using the number pad. **Touch** the check mark.



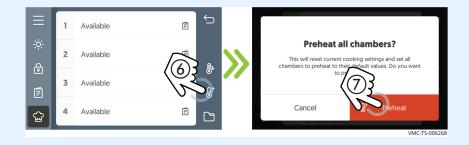


4. Touch the check mark ④ to save the preheat temperature settings.
 Touch the manual cook icon ⑤ to return to the manual cook screen.

=	Temperature Settings		5					
_	Temperature Units	Fahrenheit °F >				¥	F My recipe	E My menus
÷ċ:	Default preheat chamber 1	300°F >			÷ờ;-	Manual cooking	library	library
ð	Default preheat chamber 2	275		//	₽	~	*	¢
Ē	Default preheat chamber 3	27 (4)	2 m		Ē	20	Service	Settings
ŵ	Default preheat chamber 4	275°F >			Circle C	Le Contraction	<u>(</u>)	
								VMC-TS-006

5. **Touch** the preheat icon **(6)**. The preheat all chambers confirmation screen displays.

Touch "Preheat" ⑦. All chambers start to preheat to their preset temperatures.



Screen loading bars Red loading bars indicate each chamber's progress towards reaching its set temperature.

Touch the cancel icon (8) to cancel the preheating process before the individual chamber reaches its preset preheat temperature. Each chamber must be canceled individually.

Image: Second secon	≡	Å	Preheating Temperature set at 300°	×		1	Ready		⇒
Image: Second secon	ېن ه	ß				2	Ready	T.	л,
Available E C A Ready E C		ß		×		3	Ready		
	୍ଷ	4	Available	Ē	P	4	Ready	Ē	C

Result

The oven is preheating. When the preheat process is complete, the screen displays Ready for each chamber.



Before you begin

How to Cook with Programmed Recipes

Make sure:

The oven is preheated. Your food is prepared and ready to cook. **Procedure** To cook using a programmed recipe, do the following. Step Action **Touch** the recipes icon (1). The browse recipes screen displays. 1. Browse recipes ∽ Beef Brisket ⋳ Q 63 () 00:08:00 Beef Brisket Broccoli Ē ∇ E () 00:27:00 6 00:08:00 Q ഹ്ഷ 2. Navigate to the recipe. **Touch** the recipe (2). **Touch** the start icon (3). ∽ ∽ **Beef Brisket** Beef brisket with homemade BBQ sauce 00:27:00 Total cooking time: Q Beef Brisk Broccoli Cooking instructions ∇ Ē Ē 00:88:00 000.27.00 63 Step 0 250°F (00:25:00 ୍ଷ୍ମ ഹ്ഷ (00:02:0 **Select** the available chamber(s) (4). 3. **Open** the door and load the food into the chamber. **Close** the door. **Touch** the start icon (5). Available ~ 2 Available 2 Available 3 Available Available 3 Available Available

During the cooking process

The cooking status screen displays the details on the current cook setting.



Beef Brisket			
🔓 Step 0	🔗 250°	00:25:00	🛞 30%
Step 1	🕜 300°	00:02:00	@ 90%

During the cooking process:

Action	Result
Touch the hand icon 💓 when action is required	to continue the cooking process.
Touch the chamber	to show the recipe details.
Touch and hold the chef's hat next to the cooking parameters	to show the current chamber temperature.
Touch "X"	to cancel the cooking process.

Result

At the end of the cooking process, the oven sounds an alert and both the chamber light and door handle light flash. Remove the cooked food.

NOTE: Be sure to remove the cooked food after pressing "Continue". By pressing "Continue" the oven will revert back to the preheat temperature. If left inside the oven, the food will continue to cook.





How to Cook in Manual Mode

Before you begin	Be sure your food is prepared and ready to cook.
Background	 This procedure consists of: Setting the preheating stage; setting the food loading action; and setting the cooking stage parameters (temperature, time, and fan speed).
Procedure	<text><section-header><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></section-header></text>



3. **Touch** the temperature regulation icon (5). The oven may need to warm up or cool down to reach your cooking temperature.

Enter a preheat temperature using the key pad. **Touch** the check mark.



4. Now set the cooking parameters. **Touch** the cooking temperature **(6)**. **Enter** the cooking temperature using the key pad.

Touch the cooking time \bigcirc . Enter the cooking time using the key pad.

Slide the slider (8) to set the fan speed.



5. **Touch** the start icon **(9)**. The preheat process starts.



At the end of the preheat stage, the oven sounds an alert, and both the chamber light and the door handle light flash.

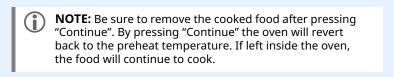


6. **Load** the food into the appropriate chamber. **Touch** the action hand (10). The cooking stage timer starts to count down.



At the end of the cooking stage, the oven sounds an alert, and the chamber light and door handle light flash.

7. **Open** the door and remove the hot food.



Result

The food is now cooked.



How to Lock and Unlock the Screen

Before you begin	The oven is turned on.
Background	The screen can be locked to prevent changes being made during the cooking process.
Procedure	To lock and unlock the screen, do the following.
	Step Action
	1. Touch the lock icon (). The screen is now locked.
	2. To unlock the screen, touch and hold the lock icon and drag it to the top or bottom of the screen. Image: Contrast Streen Image: Contrast Streen Image:

Result

The screen is now locked or unlocked.



How to Cool Down the Oven

Procedure

To cool down the oven, do the following.

Action Step **Touch** the manual cook icon (1). 1. \bigcirc Ē Ready Temperature set at 400° Ready Ē Beef Brisket Broccoli Temperature set at 350° 健 ⋳ ŀ () 00:27:00 0 () 00:08:00 6 Ready Ē E Ē Temperature set at 300° ß Ready Ē Q ଦ୍ଧ C / Temperature set at 85 2. **Touch** the cool down icon (2). The cool down all chambers screen displays. Touch "Cool down" (3). Open the door. NOTE: The oven activates the blowers for the cool down i) process. The oven deactivates the blowers when the cool down process is complete. ∽ Ready Ē Temperature set at 400° **Cool down all chambers?** Readv F This will reset current cooking settings and cool down all chambers to default values. Do you want to proceed? Temperature set at 350° ⋳ Ready Ē Temperature set at 300° Ē Ready Cance ୍ଷ ß / Temperature set at 85°

Cooling down progress bars

Above each chamber on the screen, blue progress bars indicate each chamber's progress towards reaching its cool down temperature.



Result

The oven is now cooled down.



How to Create a Recipe

Background

Creating a recipe consists of:

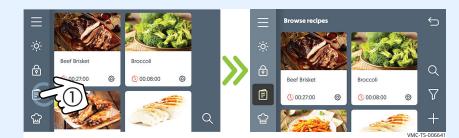
- Setting the cooking stage(s) parameters (temperature, time, and fan speed);
- setting an action step if desired such as adding an ingredient;
- naming the recipe;
- adding a description to the recipe;
- adding a photo to the recipe;
- and adding the recipe to a category.

Procedure

To create a recipe, do the following.

Step Action

1. **Touch** the recipes icon ①. The browse recipes screen displays.



2. **Touch** the plus icon **(2)**.

Touch "Add Stage" (3) to add a cooking stage to the recipe.





3. Set the cooking parameters. **Touch** the cooking temperature **(6)**. Enter the cooking temperature using the key pad. **Touch** the check mark.

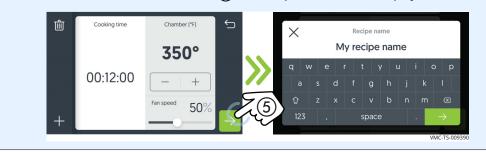
Touch the cooking time ⑦. Enter the cooking time using the key pad. **Touch** the check mark.

Slide the slider **(8)** to set the fan speed.

Touch the forward arrow icon 4 when finished.



- 4. **Touch** the plus icon to add an additional stage or action, if needed.
- 5. **Touch** the forward arrow icon (5). The recipe name screen displays.





6. **Enter** the recipe name. **Touch** the forward arrow icon **(9)**. The recipe description screen displays.



7. **Enter** the recipe description. **Touch** the forward arrow icon **(1)**. The recipe category screen displays.



8. **Select** the recipe category. A check mark displays on the selected recipe category.

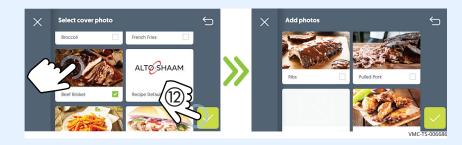
Touch the check mark (1). The select cover photo screen displays.





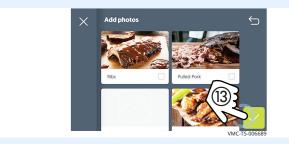
9. **Select** the cover photo for the recipe. A check mark displays on the selected photo.

Touch the check mark (12). The add photos screen displays.



10. **Select** additional photos for the recipe, if needed. A check mark displays on any selected photos.

Touch the check mark 3 when finished to save the recipe.



Result

A new recipe has been created.



How to Modify, Duplicate, or Delete a Recipe

Procedure

To modify, duplicate, or delete a recipe, do the following.

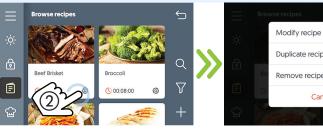
Step Action

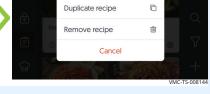
1. **Touch** the recipes icon ①. The browse recipes screen displays.



Modifying

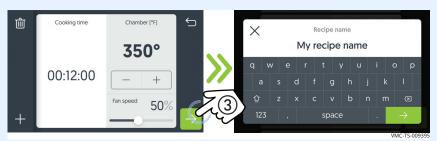
2. To modify a recipe, **Touch** the recipe settings icon (2) of the desired recipe.





Ø

Touch "Modify recipe". The first stage of the recipe displays. There will be a screen for each stage. Scroll to the stage you want to modify.



Touch the time or temperature space then modify the value using the key pad. **Slide** the slider to change the fan speed. **Touch** the forward arrow icon when finished.

Touch the trash icon to delete the stage, if desired.



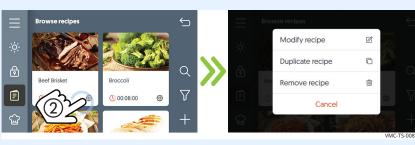
4.



Step through the remaining screens using the forward arrow icon. You will be given the opportunity to change the description and any photos you have included in the recipe. When you get back to the **browse recipes** screen, the changes will be saved.

Duplicating

To duplicate a recipe, **Touch** the recipe settings icon 2 of the desired recipe.



Touch "Duplicate recipe" to copy it.

5. Step through the remaining screens using the forward arrow icon. When you get to the naming screen, enter a new name using the keypad.

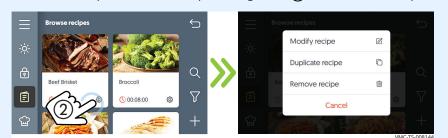


Step through the remaining screens using the forward arrow icon. Change the parameters of the recipe as desired. When you get back to the **browse** recipes screen, the changes will be saved and the recipe will be visible on the display.



Deleting

6. To delete a recipe, **Touch** the recipe settings icon 2 of the desired recipe.



Touch "Remove recipe" to delete it.

Touch "Delete" to confirm that you want to delete the recipe.

Delete I Your recipe will be deleted. A proce	re you sure you would like to
Cancel	Delete

Result

The procedure is now complete.



Before you begin

How to Backup or Restore Settings with a USB Drive

The oven is on, but not in a cooking mode.

Make sure:

		will need a USB drive.
Procedure	To back	up or restore settings with a USB drive, do the following.
	Step	Action
	1.	Touch the menu icon ①. The menu screen displays.
		Image: space with the sp
	2.	Touch the Settings icon ②. The general settings screen displays.
		Image: Construction of the construc
	3.	Plug the USB drive ③ into the port.
		XX-T5-007852



- Scroll to System Backup & Update. 4. **Touch** the Backup settings to USB or Restore settings from USB (4). System Backup & Update > settings to US Restore settings from USB > Download recipes to USB > Ē 2 Upload recipes from USB > ୍ଷ୍ମ Upload simple recipes from USB > VMC rs_0128
- Loading the recipesThe oven downloads or restores the settings. When the process is complete,
touch the check mark to return to the settings screen. Remove the USB drive.



Result

The settings have now been saved to the USB drive or restored from the USB drive.

How to Load Recipes from a USB Drive

Before you begin

Make sure:

୍ଷ୍ମ

- The oven is on, but not in a cooking mode.
- You will need a USB drive loaded with recipes.

Procedure

To load recipes from the USB drive to the oven, do the following.

Step Action **Touch** the menu icon (1). The menu screen displays. 1. പ്പ I E My recipe library My menus library Manual cooking Broccoli ⋳ ß * × ැබු () 00:27:00 () 00:08:00 0 (6) HACCP data Ē Service Settings Ē

Q

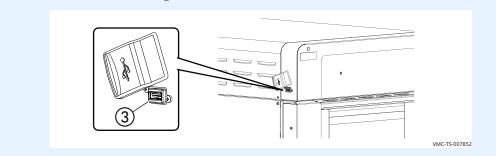
2. **Touch** the Settings icon **(2)**. The general settings screen displays.



ଦ୍<u>ଧ</u> ?

(i)

3. **Plug** the USB drive (3) into the port.



4.	Scroll to System Backup & Update.						
	Touch the Upload re	ecipes	from USB ④ setting	J.			
		Ξ	System Backup & Update		5		
		.;ċ.́-	Backup system to USB	>			
		ð	Restore system from USB	>			
		Ē	Download recipes to USB	>	٣		
			Upload recipes from USB	>	اللا		
		ŵ	Update system software	> VM(-TS-008113		

Loading the recipesThe oven loads the recipe file. When the process is complete, the Recipes
uploaded screen displays. Touch the check mark to return to the settings screen.
Remove the USB drive.



Result

The recipes are now loaded.



How to Save Recipes to a USB Drive

Before you begin

Make sure:

Step

- The oven is on, but not in a cooking mode.
- You will need a USB drive.

Action

Procedure

To download recipes from the oven to a USB drive, do the following.

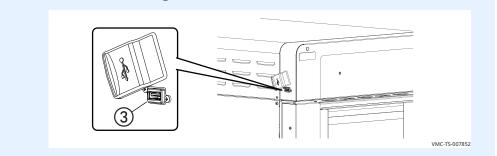
1. **Touch** the menu icon (1). The menu screen displays.



2. **Touch** the Settings icon (2). The general settings screen displays.



3. **Plug** the USB drive (3) into the port.





4.	Scroll to System Backup & Update.							
	Touch the Download	d recip	pes to USB ④ setting	J.				
		Ξ	System Backup & Update		5			
		·ờ:	Backup system to USB	>				
		⋳	Restore system from USB	>				
		Ē	Download recipes to USB) >	Ŵ			
		с С	Upload recipes from USB	>	0111			
		Ъ	Update system software	> VMC	-TS-008122			

Loading the recipes The oven downloads the recipes onto the USB drive. When the process is complete, the Recipes uploaded screen displays. **Touch** the check mark to return to the settings screen. **Remove** the USB drive.



Result

The recipes are now saved to the USB drive.



Before you begin

How to Update Software with a USB Drive

The oven is on, but not in a cooking mode.

Make sure:

	You will need a USB drive with the updated software. To download the most up t date oven software and register for email notifications when new software versions are released, please visit <u>https://www.alto-shaam.com/en/customer- support/software-downloads.</u>
	 Do not remove the USB drive during the update process.
Procedure	To update the software, do the following.
	Step Action
	1. Touch the menu icon ①. The menu screen displays.
	Image: Second
	2. Touch the Settings icon ②. The general settings screen displays.
	E General Settings 5
	-☆ My recipe Wy menus ibrary Home Screen Favorite recipe >
	Recipe home group Favorites >
	Language English >
	Image: Control of the second
	3. Plug the USB drive ③ into the port.

3

VMC-TS-007852



4.	Scroll to System Backup & Update.							
	Touch the Update system software $\textcircled{4}$ setting.							
	System Backup & Update							
	Backup system to USB > Control Board >							
	Restore system from USB > Front End >							
	Download recipes to USB > Back End >							
	Upload recipes from USB							
	Update system software C(4) > WMC-TS-008150							
	Touch Control Board (CB) to update the control board. The oven loads the							
	selected software. The oven verifies the file and then updates the CB.							
	NOTICE Do not remove the USB drive during the update process.							
	Touch Front End to update the user interface software. The oven loads the selected software.							
	Touch Back End to update the supporting software between the control board (CB) and interface board (IB). The oven loads the selected software.							
5.	Touch the check mark when the update is complete to restart the oven.							
	Image: System starting Image: System starting							
	VMC-15-008168							
6.	Remove the USB drive.							

Result

The software has now been updated.



How to Change the Home Screen

Procedure

To change the home screen, do the following.

Step	Action					
1.	Touch the menu id	:on (1). The men	u screen d	lisplays.		
	*	Broccoli	≡ ∻	Manual cooking	My recipe library	My menus library
	© 00:27:00 Ø	<u>()</u> 00:08:00		HACCP data	Service	CCS Settings
		a			i	Settings
		4		Ŭ	Ŭ	VMC-TS-00625
2.	Touch the Settings	s icon ②. The ge	eneral setti	ngs screer	n displays	
		E		General Setting	gs	\
	······································		-ò-	Home Screen	Favorite	recipe >
	l	¢ ³	▶ @	Recipe home group	p Fa	vorites >
	HACCP data Servic	e Settings	Ē	Language		English >
	☆ ?		ŝ	Date		J/22/19 >
						VMC-TS-00626
3.	Touch the Home S	creen setting (3). The sele	ct home sc	reen disp	lays.
	General Settings	¢		Select home s	creen	¢ (
		P ^{Favorite} recipe >		Favorite recipe		
	Recipe hom	English >	>>	Manual cooking Menu		
	Timezone	UTC+00:00 >		Category		
		010+00:00 /				

Select your desired home screen from the list. Touch the check mark (4).
 Touch the check mark (5) to save the home screen setting.

Select home screen	\smile		General Settings	
Favorite recipe		÷ċ-	Startup Screen	Manual cooking >
Manual cooking			Language	English >
Menu			Timezone	America/Ch
Category	(A)2		Date	
		Ê	Time	1:21 PM >

Result

The home screen has now been changed.



How to Change the Temperature Scale

Procedure

To change the temperature scale from °F to °C and vice versa, do the following.

Step	Action					
1.	Touch the menu icon (1). The menu	u scre	en di	splays.		
	*			Manual cooking	My recipe library	My menus library
	Image: Constraint of the second sec	》		HACCP data	Service	ÇÇ) Settings
	ଳ 🥨 🍼 ବ		£	?	(i)	VMC-TS-006259

2. **Touch** the Settings icon **(2)**. The general settings screen displays.



3. **Scroll** to the Temperature Settings.

Touch the Temperature Units setting (3). The select temperature units screen displays.





Select your desired temperature scale. **Touch** the check mark **(4)**. 4. **Touch** the check mark (5) to save the temperature scale setting. Temperature Settings ∽ ⇔ Select temperature units Temperature Units Celsius °C > Celsius °C ~ Default preheat chamber 1 177°C > Fahrenheit °F Default preheat chamber 2 Default preheat chamber 3 ୍ଷ Default preheat chamber 4

Result

The temperature scale has now been changed.



How to Enable the Handle Light

Procedure

To enable the handle light, do the following.

Step Action **Touch** the menu icon (1). The menu screen displays. 1. ଳ E E My menus library My recipe library Manual cooking Broccoli ₽ ⋳ * æ ැබූ 00:08:00 00:27:00 63 \$03 Ē HACCP data Service ettings Ē ୍ଳ ? ୍ଷ୍ମ Q VMC-TS-00625 2. **Touch** the Settings icon (2). The general settings screen displays. \leftarrow ୍ଳ Ē General Settings My recipe library My menus library Manual cooki Home Screen Favorite recipe > Recipe home aroug Favorites > ¢ æ * ලි English > Language Ē HACCP data Service 2 UTC+00:00 > Timezone ୍ଲ ? (i) ഹ്ഷ Date 10/22/19 > VMC-TS-00626 3. Scroll to the Handle light setting. **Touch** the Handle light button ③. **Touch** the check mark ④. The handle light is now enabled.

Repeat the process to disable the handle light.



Result

The handle light is now enabled.



How to View Oven Information

This procedure is to be done through the touchscreen on the Deluxe control, not Background through the ChefLinc[™] oven management system. The oven information screen shows the system info, serial number, network status, and connection settings. Procedure To view oven information, do the following. Step Action 1. **Touch** the menu icon (1). The menu screen displays. ଳ୍ମ Ξ My menus library My recipe library Manual cooking Broccoli ⋳ ß æ * හි (0 00:27:00 (63 (0) 00:08:00 ത Ē HACCP data Service Settings Ē പ്പ ? Q ୍ଦ୍ର **Touch** the Info page icon (2). The oven information screen displays. 2. Scroll to view the oven model, serial number, system software, network status, and cleaning timer. -ت ا My recipe library My menus library \times Professiona cooking System Info Model **VMC-H4H** N * ු Serial number 0000000000 HACCP data Service Settings CB Firmware version x.x.x 7 BE Software version X.X.X പ്പ പ്പ FE Software version x.x.x

Result

The oven's information has been viewed.

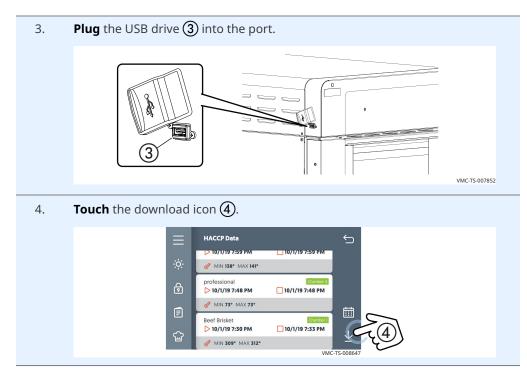


VMC-TS-00824

How to Download HACCP Data

Before you begin	Make sure:						
	 The oven is on, but not in a cooking mode. You will need a USB drive. 						
Background	HACCP data provides automated record keeping, set-point validation, recipes used, dates and times. The data is stored until the information is downloaded. Once downloaded, the information is removed from the oven's memory. Best practice would be to download the information every 30 days to a USB drive. The file format is plain text file (.csv). The file can be viewed in Microsoft® Excel.						
Procedure	<section-header></section-header>						
	Image: Contract of the contract						





Loading the data The oven downloads the data onto the USB drive. When the process is complete, the download successful screen displays. Touch the check mark to return to the menu screen. **Remove** the USB drive.



Result

The HACCP data has now been downloaded.



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Maintenance Schedule

Requirements	 See topic <i>How to Clean the Oven</i>. Make sure the oven is cooled down and off—inside of chamber 140°F (60°C) or less. 					
Daily	For daily maintenance, do the following.					
	Remove any spills with disposable paper wipes or a damp cloth.					
	 Wipe the outside of the oven with a damp cloth. 					
	 Check the screen for cracking or peeling. Contact Technical Service if needed. 					
Weekly	For weekly maintenance, do the following.					
	Restart the oven to reboot the screen.					
	Clean the entire oven. Make sure to use a non-abrasive nylon scrub pad.					
	Inspect and clean the grease filters (if equipped)					
	Do not spray the cleaner directly into the fan openings located in the rear of the oven.					
Monthly	For monthly maintenance, do the following.					
	Inspect and clean the cooling fan filters.					
Yearly	For yearly maintenance, do the following.					
	NOTE: Must be performed by a qualified professional.					
	Remove the convection element(s) and inspect the return air path for grease buildup. Remove any grease buildup.					
	Inspect the catalyst for any signs of degradation (Vector H Series models only).					
	Inspect the heater flange area for grease leakage.					
	Inspect the motor flange area for grease leakage.					
	Inspect the door gaskets for correct shape and seal.					
	Inspect the inner and outer door window panes for cracking or chipping.					
	Check and tighten all wire connections.					
	Check and tighten all display, interface and control board connections.					
	Check and tighten the door hinges.					

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- **Record** the software versions and update if necessary.
- **Record** the amp draw of all elements on the service screen individually.
- **Record** the incoming supply line voltage.
- **Test** each chamber fan for correct operation.
- **Test** each chamber heater for correct operation.
- **Test** the chamber lights.



How to Clean the Oven

-			
Dr	ora	1111	ons
	eca	uu	UII3

WARNING: Burn hazard.

Wear eye protection and hand protection while cleaning the oven.Do not spray cleaner into the oven while the blowers are

running. Allow the oven, racks, and jet plates to cool before cleaning the oven.

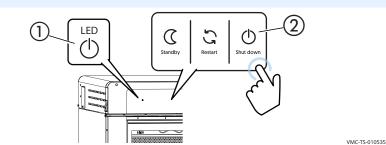
NOTICE	Using improper cleaning procedures will damage the catalyst and void the warranty.
	Do not spray the catalyst or any opening inside the oven with water or cleaning solution.
	Do not use steel pads, wire brushes, or scrapers when cleaning.

Daily cleaning procedure

For the daily cleaning, do the following.

Step Action

1. **Touch and hold** the ON/OFF button ① until the Shut down options screen displays.



Touch "Shut down" (2).

The oven activates the blowers for the cool-down process. The cool-down process is complete when the oven deactivates the blowers and the display screen turns off. When the cool-down process is complete, it is safe to clean the oven.

- 2. **Remove** any spills with disposable paper wipes or a damp cloth.
- 3. **Wipe** the outside of the oven with a damp cloth.
- 4. **Wipe** the outside of the oven with a stainless steel cleaner.

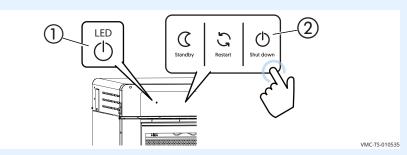


Monthly or as needed cleaning procedure

For the monthly cleaning or as needed if the oven is dirty, do the following.

Step A	Action
--------	--------

1. **Touch and hold** the ON/OFF button ① until the Shut down options screen displays.



Touch "Shut down" (2).

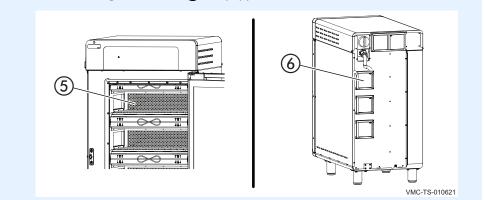
The oven activates the blowers for the cool-down process. The cool-down process is complete when the oven deactivates the blowers and the display screen turns off. When the cool-down process is complete, it is safe to clean the oven.

2. **Remove** the cooking racks (1) and jet plates (2).

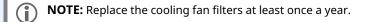




- 3. **Separate** the jet plates. Flexing the jet plates outward can aid in separating the jet plates.
- 4. **Spray** the cooking racks and jet plates with Alto-Shaam non-caustic oven cleaner (3), CE-46828. Follow safety instructions on cleaner bottle. Let the cleaner work for 3–5 minutes. **Scrub** with a non-abrasive scrub pad. **Rinse** with water. **Wipe** with a soft cloth.
- 5. **Remove** the grease filters (5) if equipped.



- Spray the interior surfaces of the oven with Alto-Shaam non-caustic oven cleaner, CE-46828. Also spray the grease filters. Let the cleaner work for 3–5 minutes. Scrub with a non-abrasive scrub pad. Remove any residue with a water-soaked towel.
- 7. **Remove** the cooling fan filters **(6)**. Clean with a mild cleaner and rinse with hot water.



- 8. **Re-install** the grease filters and the cooling fan filters.
- 9. **Clean** the door glass ④ with Windex® or equivalent glass cleaner.
- 10. **Re-install** the jet plates and cooking racks. See topic *How to Install the Jet Plates*.
 - (i) **NOTE:** Make sure the jet plates are installed correctly. The nozzles on the jet plates should be pointing towards the food.



11. **Spray** the exterior of the oven with stainless steel polish. **Wipe** the exterior of the oven with a non-abrasive scrub pad. Follow safety instructions on the bottle of the stainless steel polish.

NOTICE	Use only non-caustic cleaners.
	Do not spray directly into the fan openings on the rear of the oven.
	Do not use cleaners that contain sodium hydroxide (lye) or phosphorus.

Result

The oven is now clean.



Error Codes

Code	Description	Parameters that trigger the error	Possible Cause(s)
E-3	Motor error	No cavity motor rotation detected for greater than 30 seconds.	 Connection between Variable Frequency Drive (VFD) and control board Connection between fan motor and VFD Fan motor VFD Control board
E-10	Sensor short	Short circuit detected on sensor wires.	1. Sensor connection 2. Sensor 3. Control board
E-11	Sensor open	Cavity air sensor reading > 650°F (343°C).	1. Sensor connection 2. Sensor 3. Control board
E-30	Unit under temperature	Cavity temperature remains 25°F (14°C) below target for more than 90 minutes.	Troubleshoot heating element
E-31	Electronics over temperature	Control board temperature exceeds 158°F (70°C) and/or interface board temperature exceeds 184°F (84°C).	 Cooling fan filters blocked or dirty Cooling fan not operating Installation clearance requirements not met
E-87	Gas lockout	Loss of flame three times within 5 minutes.	Lack of fuel pressure.
E-88	Ignition module/valve failure	Two, 4-second tries for light at the ignition module with a 30-second delay between.	1. Valve status is not open after call for heat.
E-90	Gas combustion blower speed failure	Blower RPM is outside +/- 10% of expected RPMs at start of call for heat, or post-ramping when the end speed is reached.	 Power supply cable is not connected to blower motor. Speed control cable is not connected to blower motor. Blower motor is blocked, rotation is impeded, or motor is faulty. Faulty PWM daughter board.
E-94	Interface Board - Control Board communication error	No signal transfer for more than 5 seconds between the interface board and the control board.	 Connection of modbus cable Modbus cable Control board Interface board
E-108	Bi-metal thermostat open	Open circuit detected across bi-metal switch.	 Cooling fan filters blocked or dirty Cooling fan not operating Connection between bi-metal switch and control board Installation clearance requirements not met Bi-metal switch
E-109	High limit error Note: Contact an authorized Alto-Shaam service partner.	Open circuit detected across high limit switch.	 Jet plate(s) improperly installed Cavity fan not operating Optional grease filters blocked with debris Heat relay(s) stuck closed Connection between high limit switch and control board High limit switch

TROUBLESHOOTING

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Procedure

What to do if the Fan Indicator Light Illuminates

Step Action **Turn off** the oven and allow it to cool. 1. **Remove** the filters (2). (2)i Dolo S S S S S S S 1811 VMC-TS-007746 2. **Clean** the filters with mild soap and water. 3. **Re-install** the filters. Resume operation of the oven. 4. **NOTE:** If the fan indicator light remains on, the appliance (j) is malfunctioning. Disconnect the appliance from the power supply and have it serviced by a qualified technician.

If the fan indicator light (1) illuminates, do the following.

Result

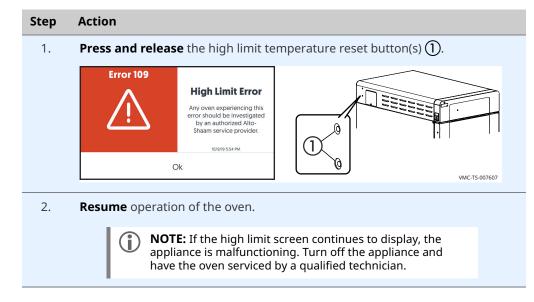
The procedure is now complete.



What to do if the High Limit Screen Displays

Procedure

If the high limit screen displays, do the following.

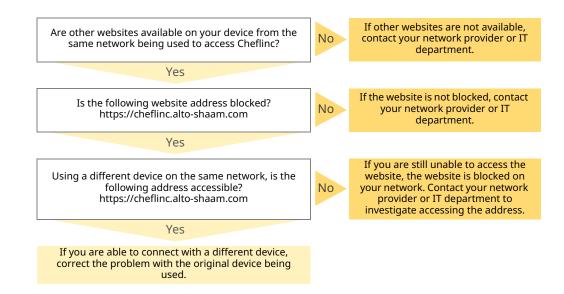


Result

The procedure is now complete.

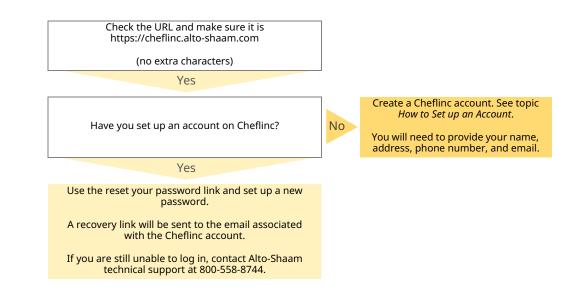


Cheflinc.alto-shaam.com is Not Available on Your Device



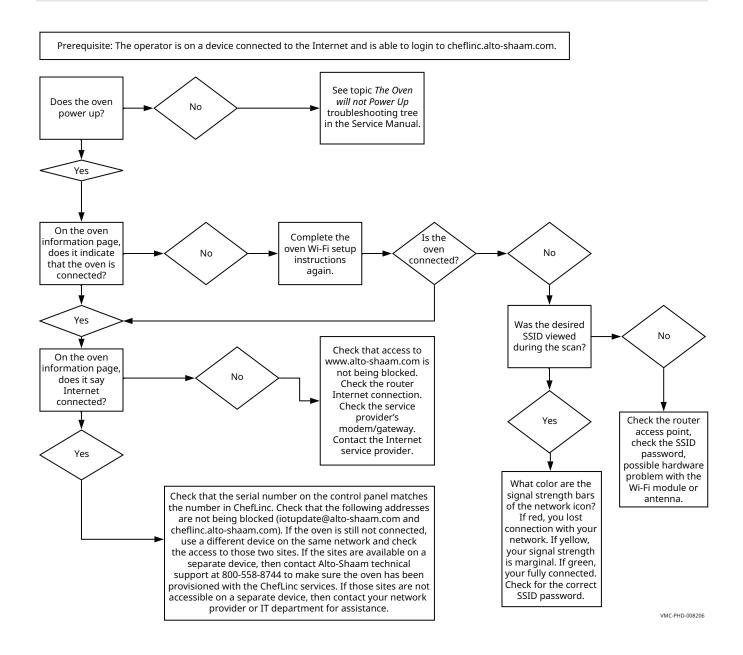


Cannot Connect to cheflinc.alto-shaam.com



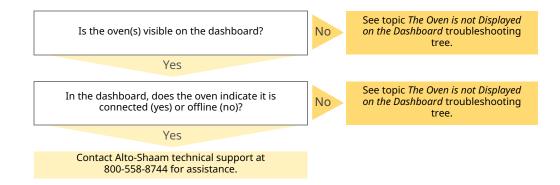


The Oven is not Displayed on the Dashboard



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Unable to Assign Recipes from the Dashboard to Ovens in the Field





TROUBLESHOOTING

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Notifications

FCC ID: N6C-SDPAC IC ID: 4908A-SDPAC

NOTICE

Federal Communication Interference Statement (United States only)

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter.



Canadian Department of Communications Industry Canada Notice (Canada only)

This Class B digital apparatus complies with Canadian ICES-003.

FCC Rules, Part 15 / Industry Canada

This device complies with Part 15 of FCC Rules and Industry Canada licenseexempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference, including interference that may cause undesired operation of this device.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from a person's body.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

For product available in the USA/Canada market, only channels 1–11 can be operated. Selection of other channels is not possible. If this device is to be operated in the 5.15~5.25GHz frequency range, it is restricted to indoor environments only.

Antenna: Proprietary

Antenna gain information: Embedded Antenna: 3.25dBi (2.4 GHz), 5.0dBi (5 GHz)

Frequency Tolerance: +/-20ppm

WARNING

The FCC / The Industry Canada regulations provide that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



General Specifications

	•		
Chipset:	QCA9377-3, (Qualcomm Atheros)		
Host Interface:	Wifi: SDIO v3.0; BT: High Speed UART		
Operating Voltage:	3.30 VDC +/- 5%		
Operating Temperature:	-20 to +70 degrees C		
Dimensions:	18.0 x 13.0 x 2.2 mm (L x W x D)		
Connector Type:	52-pin proprietary		
Radio Specifications:	: 802.11b/g/n: 2.412–2.484 GHz;		
	802.11a/n: 5.18–5.825 GHz		
	BT: 2.402–2.480 GHz		
Link Rates (1 stream):	: IEEE 802.11b: 1–11 Mbps		
	IEEE 802.11g: 6–54 Mbps		
	IEEE 802.11a: 6–54 Mbps		
	IEEE 802.11n HT20: 6.5–65.0 Mbps		
	IEEE 802.11n HT40: 13.5–135.0 Mbps		
	IEEE 802.11ac VHT20: 6.5–78.0 Mbps I		
	EEE 802.11ac VHT40: 13.5–180.0 Mbps		
	IEEE 802.11ac VHT80: 29.3–390.0 Mbps		
Modulation Modes:	OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK), DSSS (CCK, DQPSK, DBPSK), GFSK (1Mbps), π/4 DQPSK (2Mbps), 8DQPSK (3Mbps)		
Hardware Encryption:	WEP, WPA/WPA2 (TKIP/AES-CCMP), WAPI		
Quality of Service (QoS):	WMM, WMM-PS, 802.11e		
Japanese Security Standard	This oven cannot be connected directly to the telecommunications circuits (or public wireless LANs) of any telecommunication carriers (example: mobile communications carriers, fixed communications carriers, or Internet providers). In the case of connecting the oven to the Internet, make sure to connect it via a router.		



Vector H® Series
Operator's Manual MN-46295 Rev 8 10/22

Conditions for Ovens Installed in New York City

- Operating instructions in the manual must be read and understood by all persons using the appliance. The person responsible for training of the operators is responsible for the safekeeping of the manual.
- Prior to installation, plans specifying the exact product name/model number and dimensions/specifications shall be filed with and approved by New York City Department of Buildings (DOB). A copy of DOB docketed (Stamped, numbered and dated) plans shall be transmitted to the Fire Department for review and approval, as applicable.
- Installation, maintenance, and cleaning procedures shall comply with all applicable New York City Fire Code, New York City Electric Code, New York City Construction Codes (including the Building Code and the Mechanical Code), and rules.
- The cooking equipment shall be used for light duty cooking ad food warming only, and shall be provided with catalyst to limit the emission of grease-laden air.
- The cooking equipment shall be installed in an area approved by the New York City Department of Buildings.
- Underwriters Laboratories, Inc.'s listing requirements and manufacturer's installation, operation and maintenance requirements shall be complied with.
- The cooking equipment (including filters and catalyst) shall be inspected, cleaned and replaced if necessary, by a qualified person holding a Fire Department Certificate of Fitness. They catalyst shall be maintained in proper working order. A record of such inspection and cleaning shall be kept on the premises for inspection.
- All installations are subject to inspection by representatives of the Bureau of Fire Prevention which may result in additional requirements being imposed.
- The Fire Department's condition of approval shall be provided to all New York City buyers, users and installers.
- Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the manufacturer or the local representative of the manufacturer.
- The equipment's technology does not violate any patent, trade name, trade secret or other intellectual right.
- The Certificate of Approval does not constitute an endorsement or recommendation of the product by the Fire Department, but is a certification that the product is acceptable as of the date of issuance.
- The Fire Department may withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of the resolution or as represented in the application.
- Any end user who fails to comply with the conditions as outlined in this approval will be subject to enforcement action.



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. 	
	Continued on next page	

ALTO-SHAAM.

- 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.



DECLARATION OF CONFORMITY

Manufacturer: Alto-Shaam, Inc. W164 N9221 Water Street Menomonee Falls, WI 53202-0450 U.S.A.

EQUIPMENT DESCRIPTION:

EQUIPMENT TYPE:

MODEL NUMBER:

APPLIED DIRECTIVES:

APPLIED STANDARDS:

F



Household and Similar Electric Appliances

Commercial Electric Convection Ovens

VMC-H2, VMC-H3, VMC-H4, VMC-H2H, VMC-H2HW VMC-H3H, VMC-H3HW, VMC-H4H, VMC-F3E, VMC-F4E with or without a V after the dash. CMC-H2H, CMC-H3H with or without option VH

Low Voltage Directive 2014/35/EU MD (Machinery Directive) 2006/42/EC EMC – 2014/30/EC RED – 2014/53/EU

EN 60335-1:2012+AC:2014 + A11:2014 EN 60335-2-42:2003 + A1:2008 + A11:2012 AS/NZS 60335.1:2011 + A1:2012 + A2:2014 + A3:2015. AS/NZS 60335.1:2020 EN 55014-1: CISPR 14, EN 55014-2: CISPR 14 EN 62479, EN 300 328, EN 301 489, EN 300 893

We me undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards

Manufacturer Name: ALTO-SHAAM INC. NAME: Christa Pieper TITLE: Certification Manager

SIGNATURE: DATE: March 4th 2022





DECLARATION OF CONFORMITY				
Manufacturer: Alto-Shaam, Inc. W164 N9221 Water Street Menomonee Falls, WI 53202-0450	ALTO-SHAAM.			
EQUIPMENT TYPE:	Household and Similar Electric Appliances			
EQUIPMENT DESCRIPTION:	Commercial Convection Ovens			
MODEL NUMBER:	VMC-H2, VMC-H2H, VMC-H2HW, VMC-H3, VMC-H3H, VMC-H3HW, VMC-H4, VMC-H4H, VMC-F3E, VMC-F4E CMC-H2H, CMC-H3H with or without option VH			
APPLIED UK REGULATIONS:	 Supply of Machinery (Safety) Regulations 2008 Electromagnetic Compatibility Regulations 2016 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 Radio Equipment Regulations 2017 			
APPLIED STANDARDS:	EN 60335-1:2012+AC:2014 + A11:2014 EN 60335-2-42:2003 + A1:2008 + A11:2012 EN 55014-1:2018, EN 55014-2:2016			
We the undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards				
Manufacturer Name: ALTO-SHAAM INC. NAME: Christa Pieper TITLE: Certification Manager SIGNATURE: Much Ath 2022	RUTO-SHAAAAT CORPORATE SEAL			







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