



Your Solutions Partner

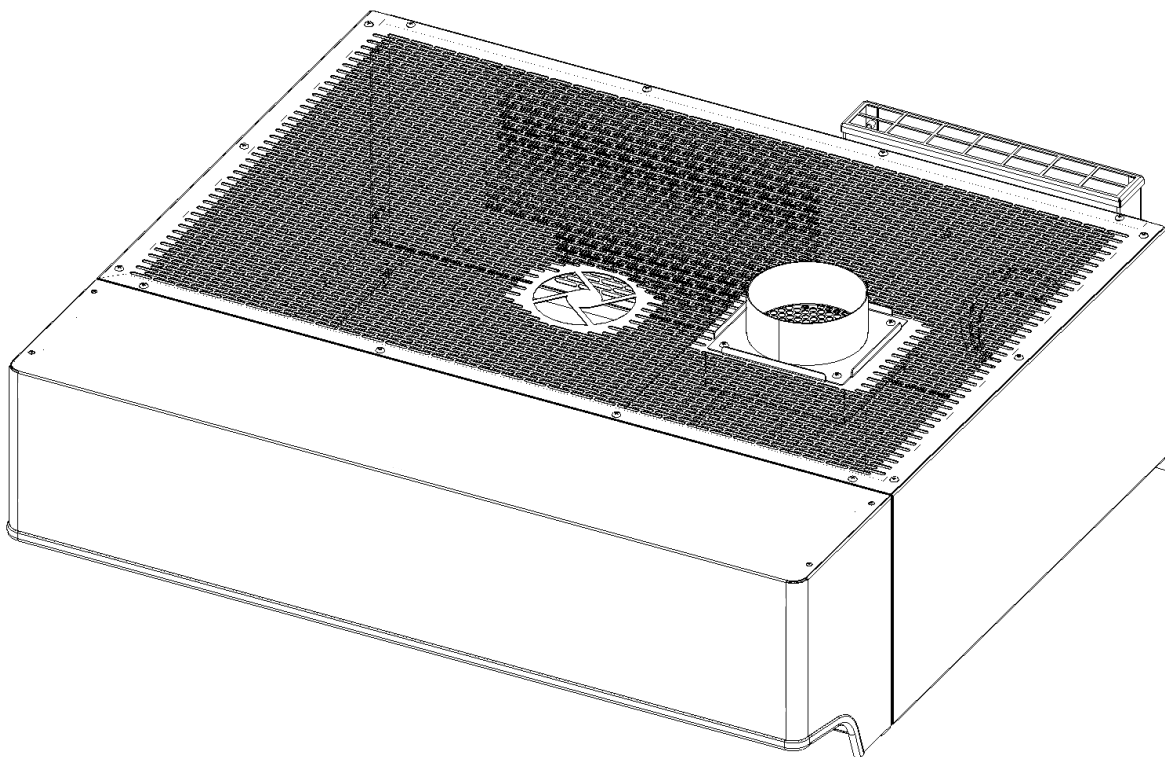
# ***Installation and Operation Manual***

## ***FlexBake 5™ Integrated Ventilation System***

**Model#**

**IVS-208-FB5**

**IVS-CE-FB5**



<b>CAUTION:</b> Please read this manual completely before attempting to install, operate or service this equipment
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**P/N 514109  
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IMPORTANT SAFETY INSTRUCTIONS

Throughout this manual, you will find the following safety words and symbols that signify important safety risks with regards to operating or maintaining the equipment.



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



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



**Indicates Important Information**



**Indicates electrical shock hazard which, if not avoided, could result in death or serious injury and/or equipment damage.**



**Indicates hot surface which, if not avoided, could result in minor or moderate injury.**



**Indicates hot surface which, if not avoided, could result in minor or moderate injury. Specifically, risk of burn from heating elements.**



**Indicates rotating fan blade hazard which, if not avoided, could result in minor or moderate injury.**

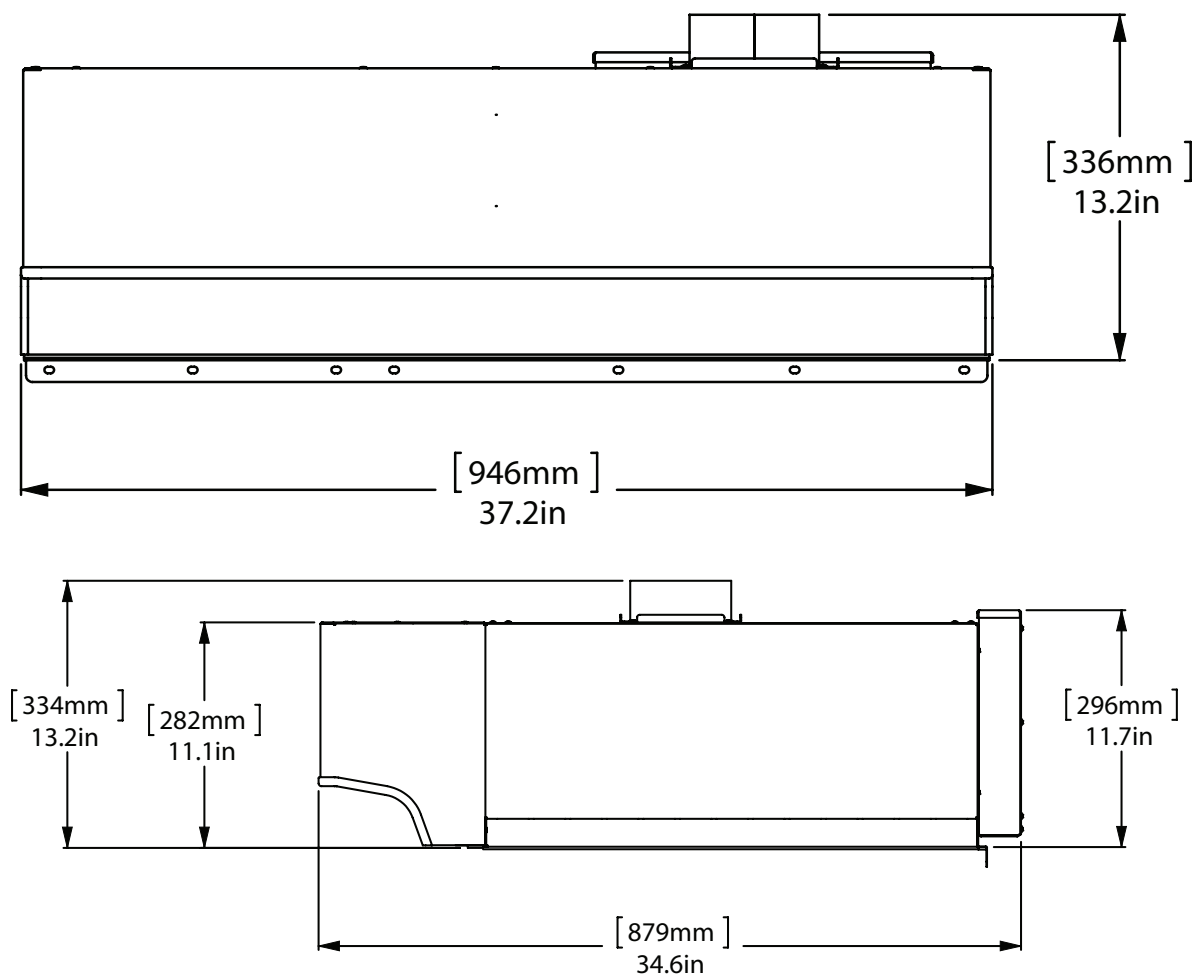
***In addition to the warnings and cautions in this manual, use the following guidelines for safe operation of the unit.***

- Read all instructions before using equipment.
- For your safety, the equipment is furnished with a properly grounded cord connector. Do not attempt to remove or disconnect the grounded connector.
- Install or locate the equipment only for its intended use as described in this manual.
- Do not use corrosive chemicals on this equipment.
- Do not operate this equipment if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
- This equipment should be serviced by qualified personnel only. Contact the nearest Duke authorized service facility for adjustment or repair.
- Do not block or cover any openings on the unit.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not allow cord to hang over edge of table or counter.
- A minimum clearance of 6" (152,4 mm) from the top of the unit to the ceiling must be provided.

***The following warnings and cautions appear throughout this manual and should be carefully observed.***

- Turn the unit off, disconnect the power source and allow unit to cool down before performing any service or maintenance on the unit.
- The procedures in this manual may include the use of chemical products. You must read the Material Safety Data Sheets before using any of these products.
- The unit should be grounded according to local electrical codes to prevent the possibility of electrical shock. It requires a grounded receptacle with dedicated electrical lines, protected by fuses or circuit breaker of the proper rating, in accordance with all applicable regulations.
- Disposal of the unit must be in accordance with local environmental codes and/or any other applicable codes.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

## SPECIFICATIONS



### BLOWER SPECIFICATION:

Static Pressure		Flow-rate	
(Inches of Water)	Pa	CFM	mm³/min
0	0	346	9.8
0.3	75	305	8.64
0.6	150	241	6.82
0.8	200	105	2.97



Commercial  
Cooking  
Appliance  
509L



### ELECTRICAL SPECIFICATIONS:

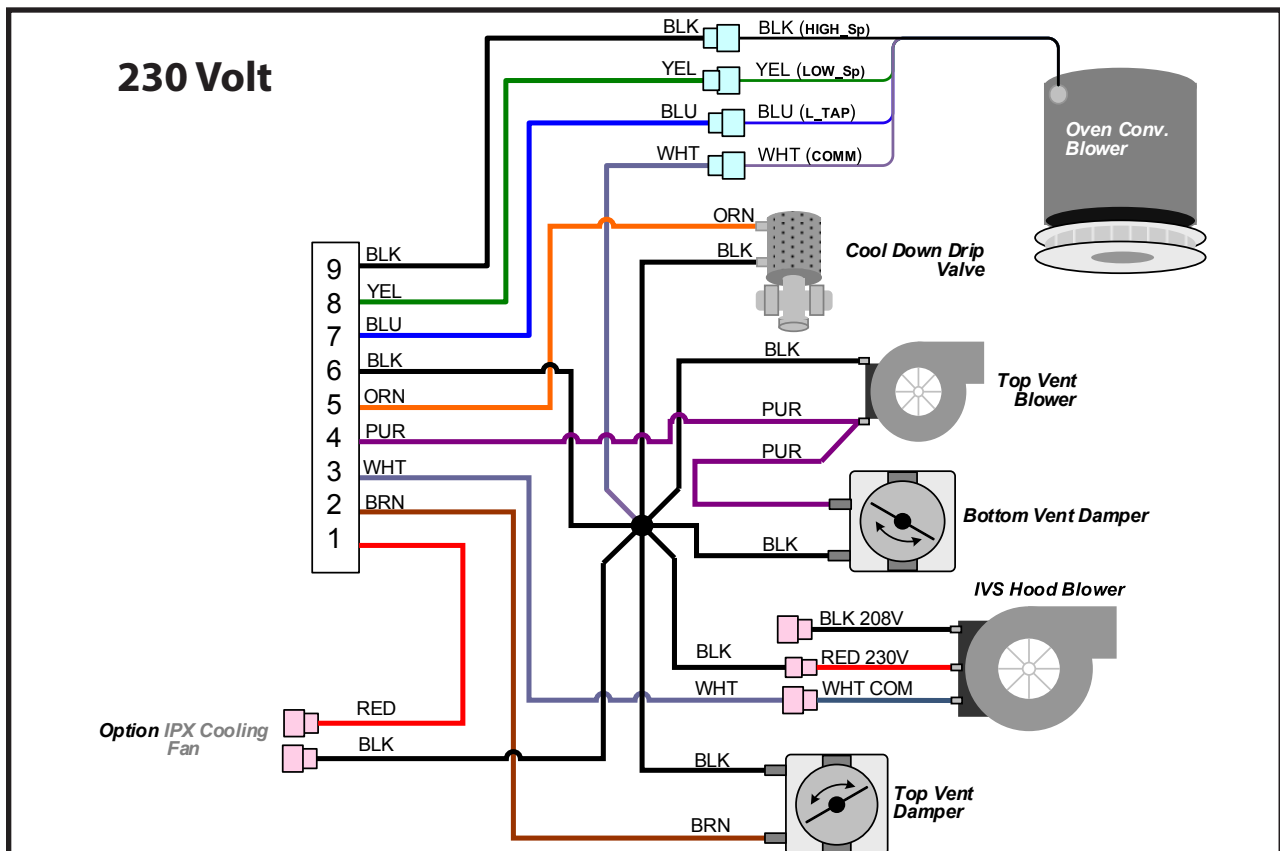
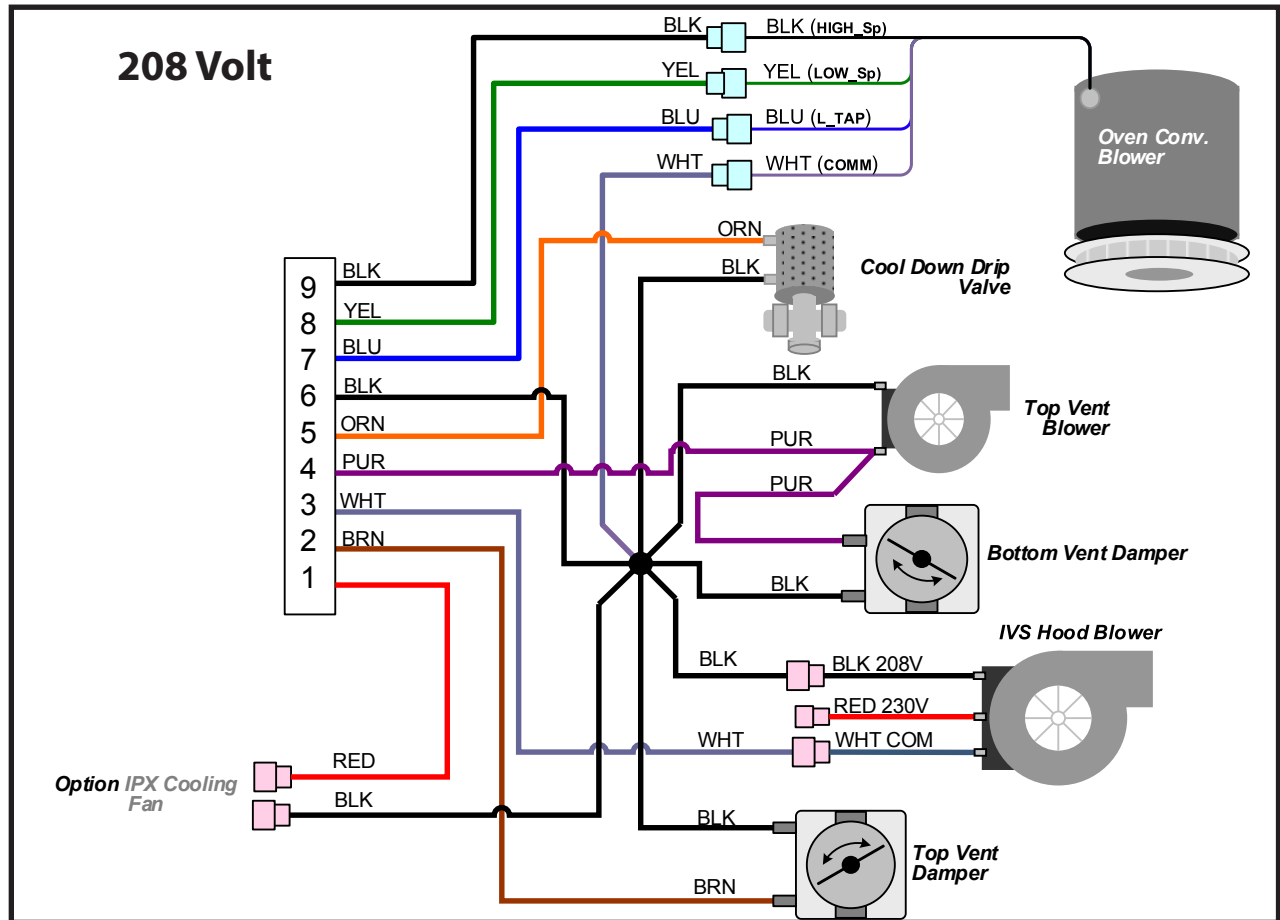
Model	Motor
<b>IVS-208-FB5</b>	208V a.c. / 60Hz, 0.49A 230V a.c. / 60Hz, 0.43A
<b>IVS-CE-FB5</b>	230VAC / 50-60Hz, 0.39-0.43A

### DIMENSIONS:

Freight Class: 100

Model	Height		Width		Depth		Crated Ship Weight		Shipping Dimensions	
	in.	cm	in.	cm	in.	cm	lbs.	kg	Carton	Crate
<b>IVS-208-FB5</b>	78.5	199.5	37.2	94.6	34.6	87.9	164	61.2	Inches - 40.5X37.1X14.2 CM - 102.9X94.2X36.1	Inches - 45.5X42.3X21.5 CM - 115.6X107.4X54.6
<b>IVS-CE-FB5</b>	78.5	199.5	37.2	94.6	34.6	87.9	164	61.2	Inches - 40.5X37.1X14.2 CM - 102.9X94.2X36.1	Inches - 45.5X42.3X21.5 CM - 115.6X107.4X54.6

## WIRING SCHEMATIC



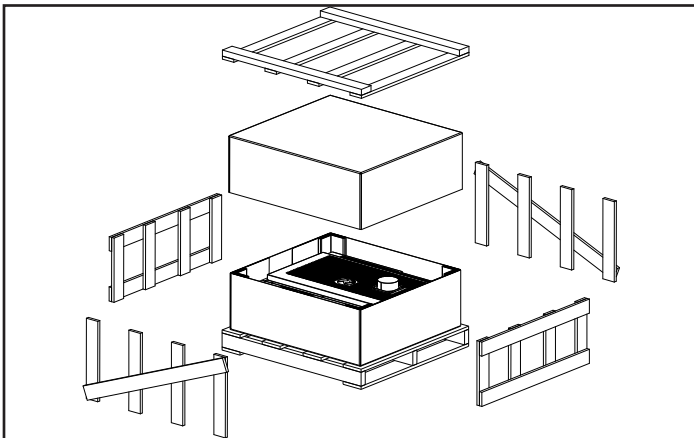
## UNPACKING INSTRUCTIONS

### Tools required (NOT PROVIDED) for this installation

- Hammer
- #2 Phillips Screwdriver
- Crowbar/Pry Bar
- 5/16" Nut Driver
- Knife or Box Cutter

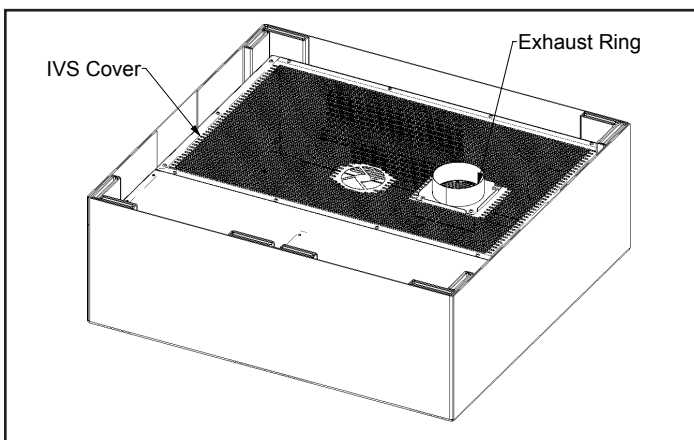
#### Step 1

Carefully remove outer crating using a hammer and crowbar/pry bar. Remove carton top.



#### Step 2

Remove the screws securing the Exhaust Ring and IVS Cover and remove these parts from the assembly (save parts and screws).

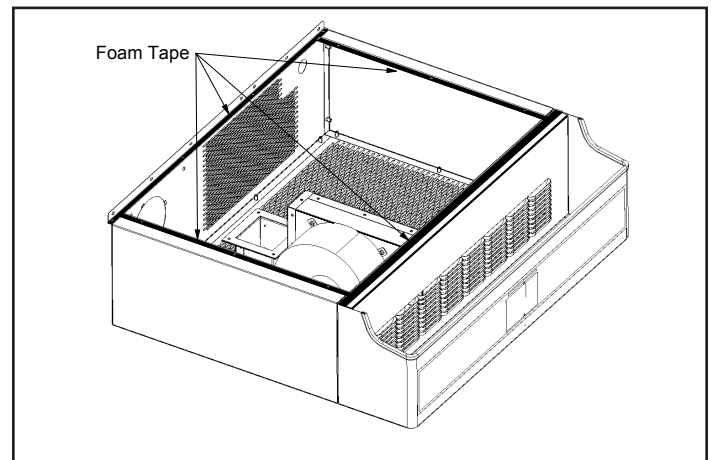


#### Step 3

Remove the 4 wood screws (2 per side flange) securing the IVS assembly to the wooden slats and pallet. Carefully remove any blocking and lift the IVS out of the carton and inspect for any shipping damage.

#### Step 4

Apply foam tape to underside of IVS on the flanges as shown. Foam tape is packed along with the IVS unit.



## REMOVAL OF OLD FACADE

**WARNING**  **ELECTRICAL SHOCK HAZARD.**

**TASKS MUST BE PERFORMED BY A QUALIFIED SERVICE TECHNICIAN OR ELECTRICIAN.**



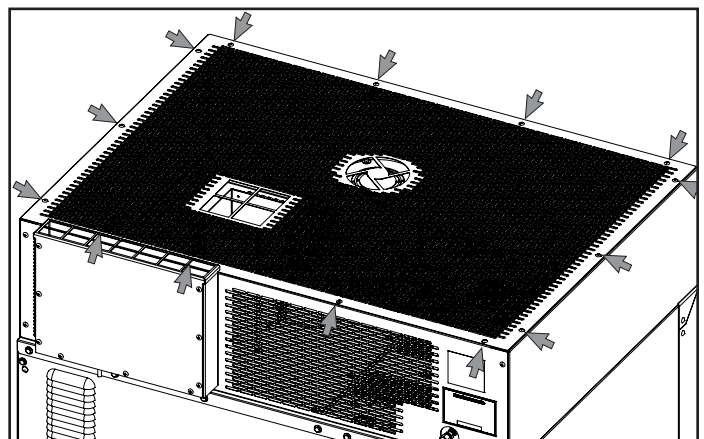
**NOTE:** Save all screws nuts and bolts for future use.

#### Step 1

Turn the FlexBake 5™ Control Power Switch off and disconnect external all poles mains supply.

#### Step 2

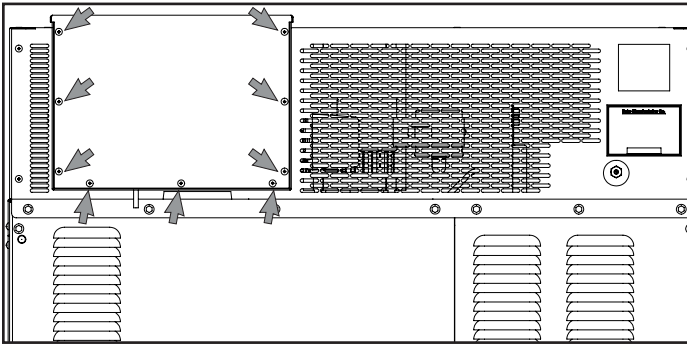
Remove the Facade Cover by removing the 16 (#8-32) screws from the top. **SAVE SCREWS.**





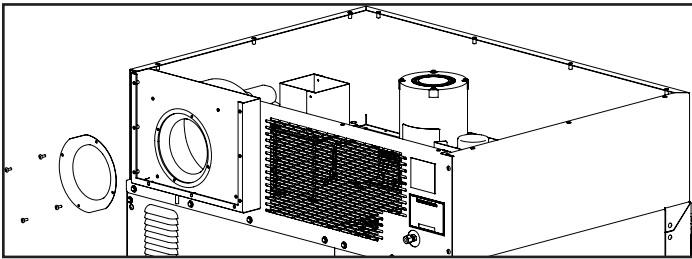
### Step 3

Remove the Vent Box Cover by removing the 9 (#8-32) screws from the vent box cover on back of unit. **SAVE SCREWS.**



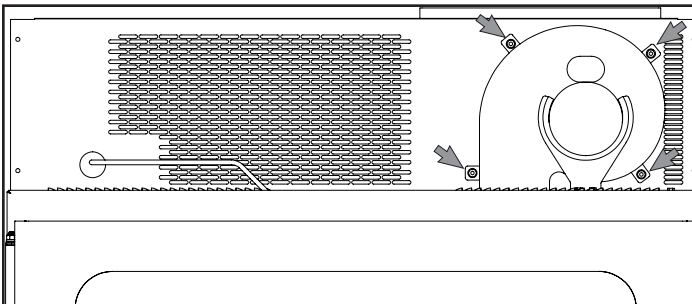
### Step 4

Remove the 4 (#8-32) screws from the venturi ring. **SAVE VENTURI RING and SCREWS** to reinstall with the IVS Vent Box.



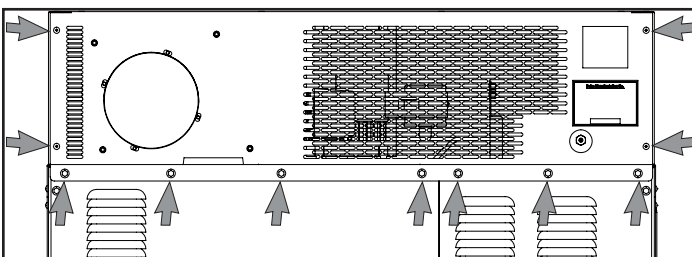
### Step 5

Remove the 4 (1/4-20) nuts from the Cool-down blower housing tabs securing the Vent Box. Remove the Facade Vent Box. **SAVE NUTS.**



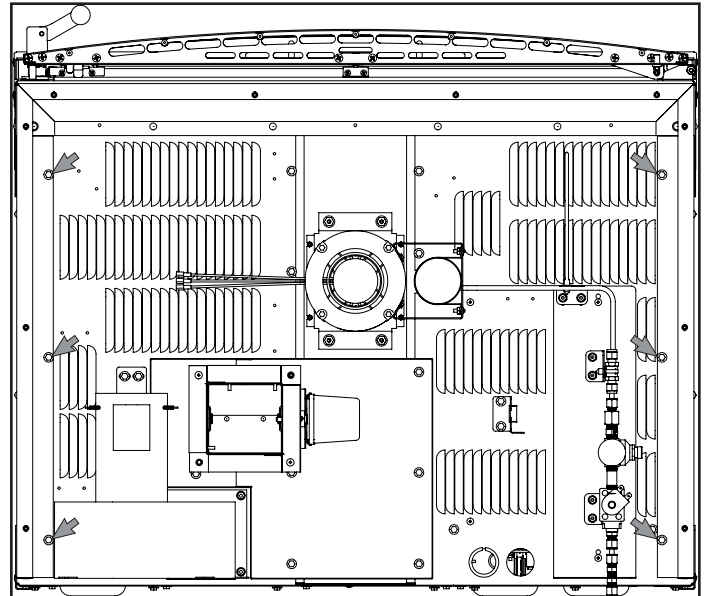
### Step 6

Remove the Facade Back Panel by removing the 7 (Tek) screws and the 4 (#8-32) screws. **SAVE SCREWS.**



### Step 7

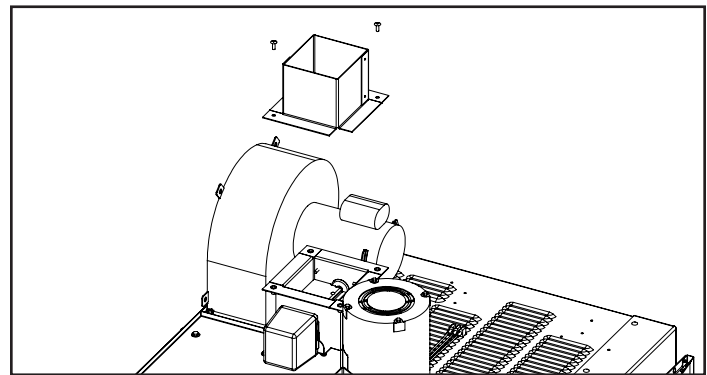
Remove the 6 (Tek) screws along each side panel and remove the Facade. **SAVE SCREWS**



**NOTE:** Save all facade parts removed for potential reuse, if desired.

### Step 8

Remove the 2 screws (#10-24) securing the Exhaust Duct Extension.



### Step 9

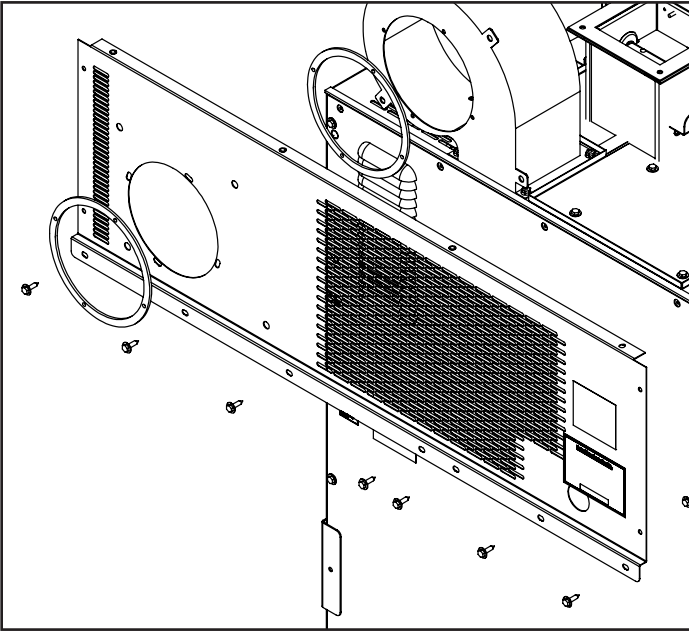
Remove the Exhaust Duct Extension and save for potential reuse with the facade, if desired.

**NOTE:** Do not exert excessive force on the cavity exhaust duct. This must remain firmly secured and sealed to the cavity.

## INSTALLATION OF NEW IVS HOOD

### Step 1

Install the IVS Back Panel loosely with the 7 screws (Tek screws previously removed in Step 6.), as shown. Make sure the ring gaskets are applied to both sides of this panel.

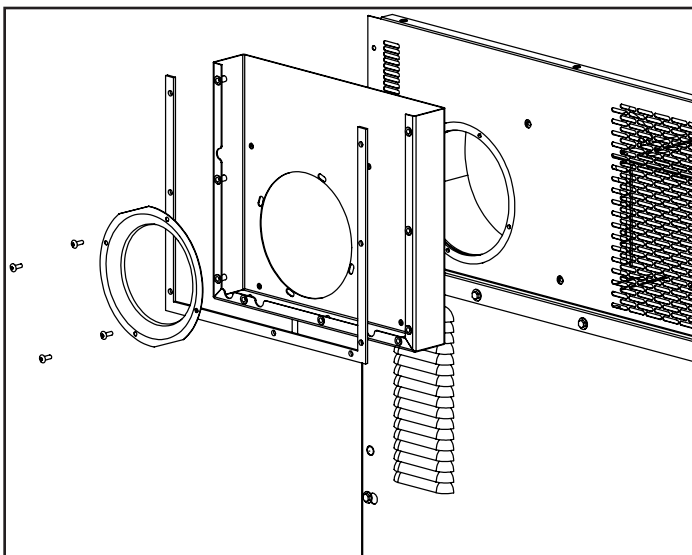


### Step 2

Install the IVS Vent Box (supplied) and Venturi (removed in previous Step 4.) with 4 (#8-32) screws.

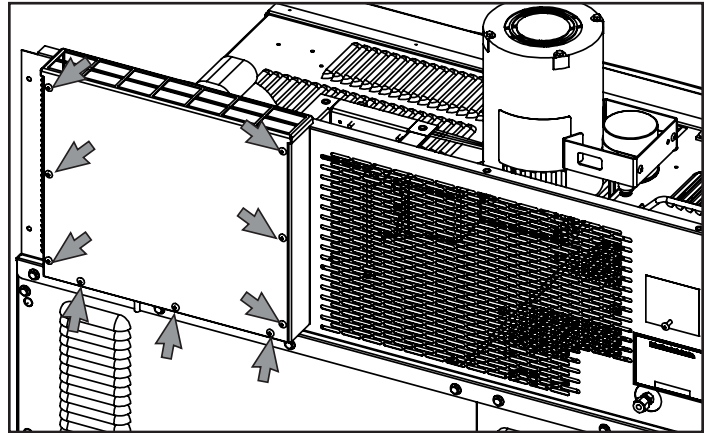


**NOTE:** With the Back Panel loosely attached, ensure all holes are aligned to prevent cross threading or binding.



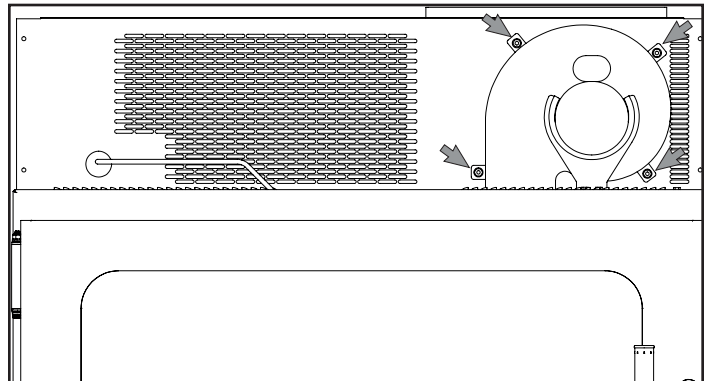
### Step 3

Install the IVS Vent Box Cover with 9 (#8-32) screws.



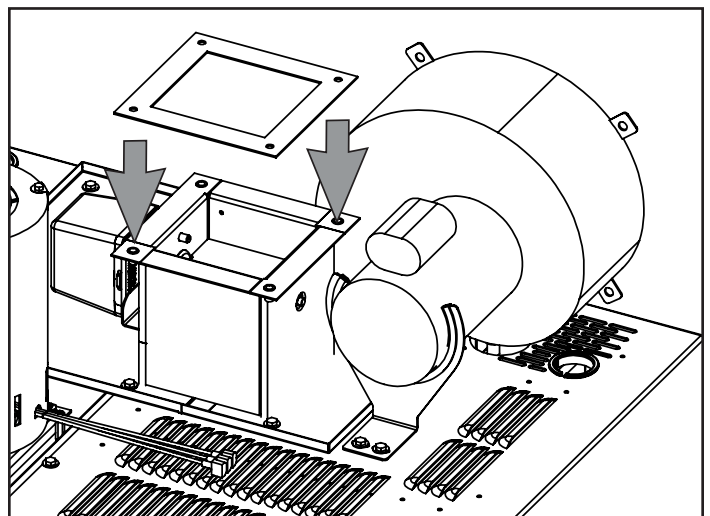
### Step 4

Install the 4 (1/4-20) nuts to secure the Vent Box and Back Panel assembly to the Cool-down blower housing tabs.



### Step 5

Place the new Exhaust Duct Gasket (supplied with the IVS assembly) onto the Exhaust Duct flange.



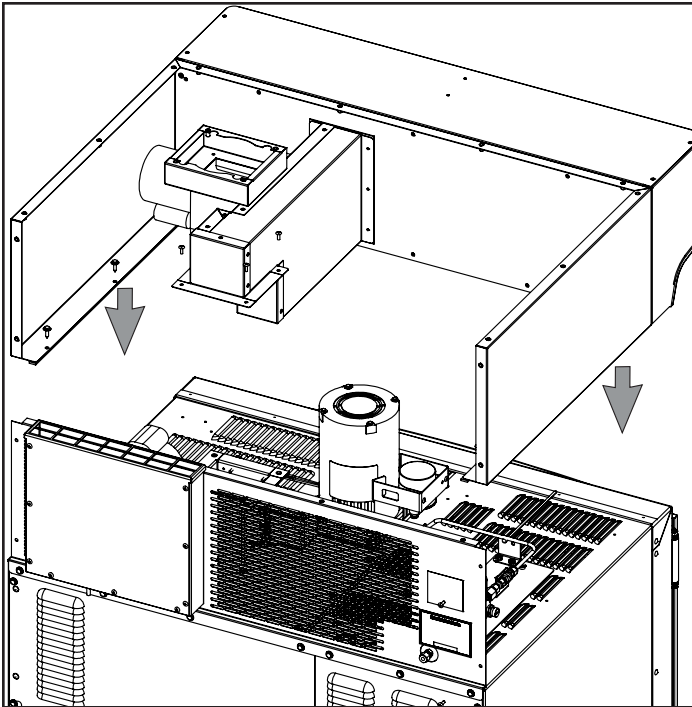


### Step 6

Carefully set the IVS assembly on top of the oven aligning the IVS duct with the oven Exhaust Duct flanges.

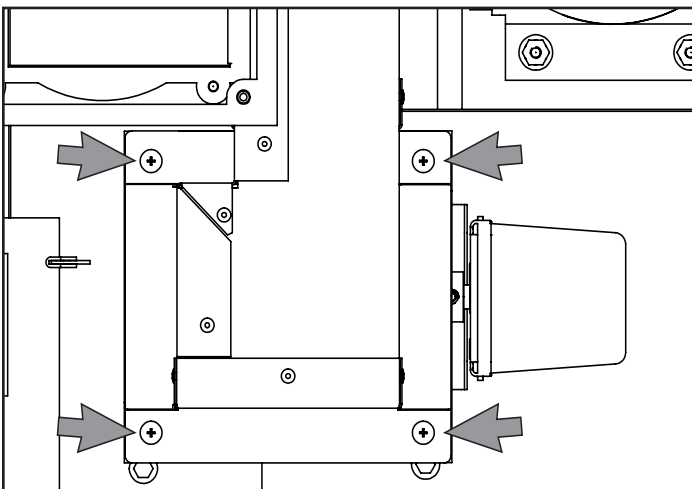


**NOTE:** Make sure the gasket from a. remains properly in place.



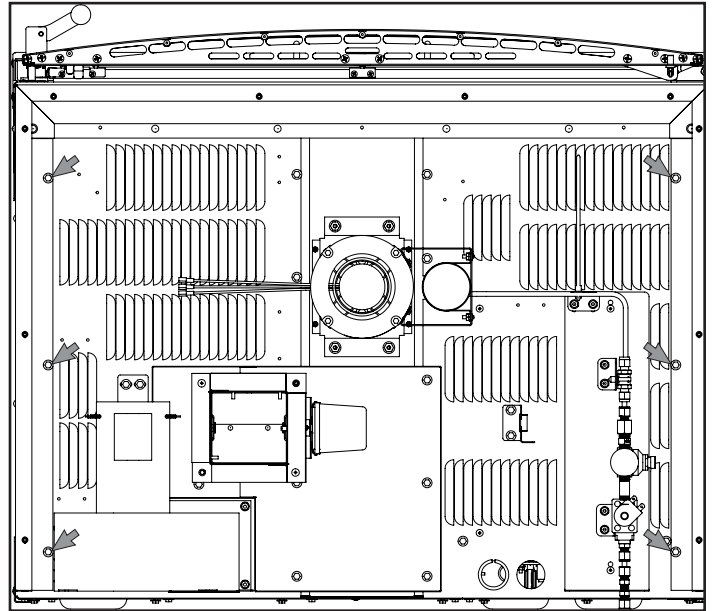
### Step 7

Install 4 screws (#10-24) to secure the IVS duct to the oven exhaust duct.



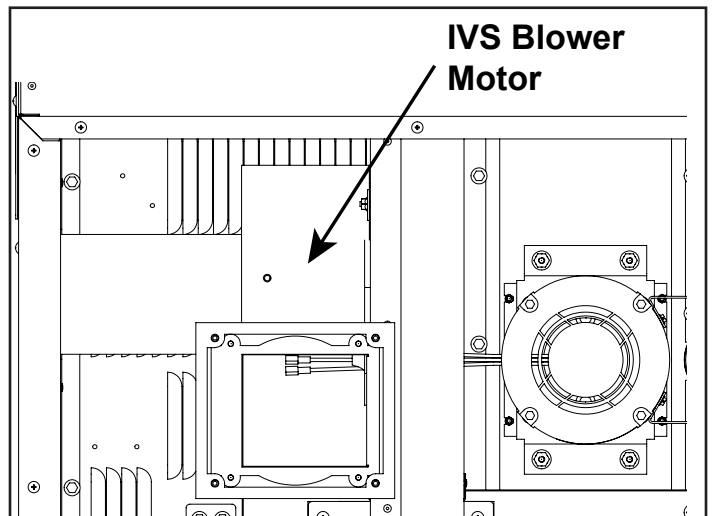
### Step 8

Install the 6 screws (3 per side)(Tek screws previously removed in Step 7.)



### Step 9

Connect the IVS assembly blower motor to the oven harness.



### Step 10

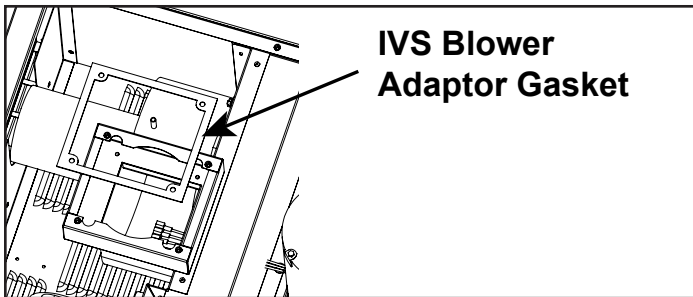
Connect the IVS blower motor to the proper voltage wire. **See wire diagrams on page 5**

**CAUTION** ⚡

The IVS blower motor **MUST** be connected with the proper voltage lead wire. On the IVS blower motor, **WHITE** is Common, **BLACK** is the 208VAC lead wire and **RED** is the 230VAC lead wire.

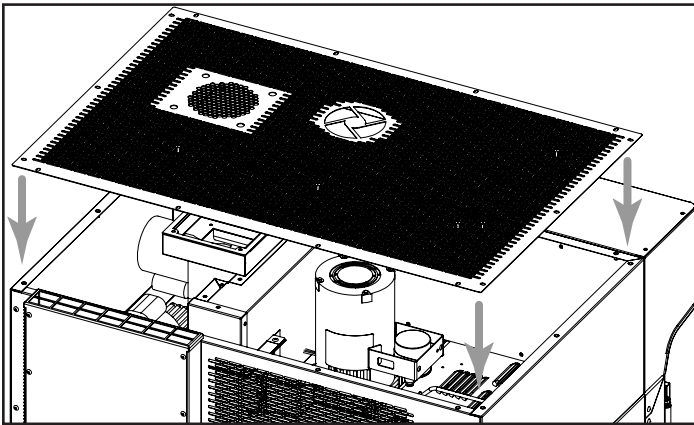
### Step 11

Place the IVS blower adaptor gasket on to the adaptor outlet, as shown.



### Step 12

Locate the IVS Cover and Exhaust Ring in position, as shown. Do not install screws at this time.

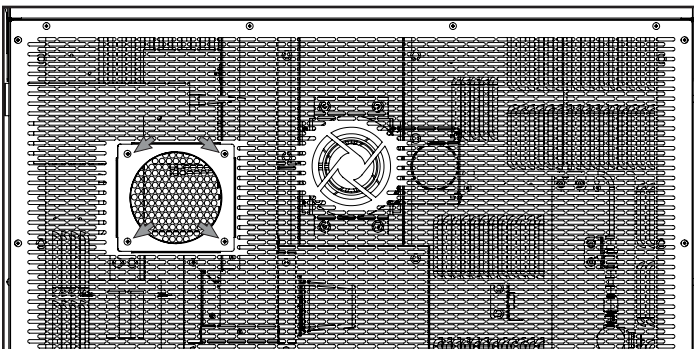


### Step 13

Locate the Exhaust Ring and position, as shown and install the 4 screws (#8-32).

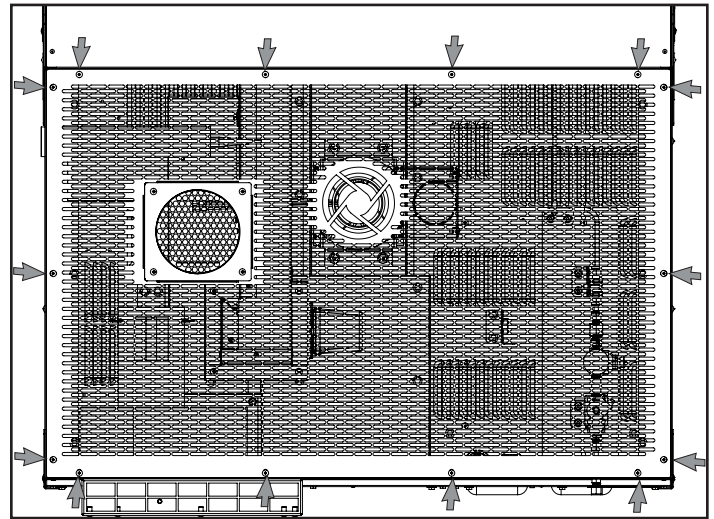


**NOTE:** Make sure the adaptor gasket is properly in place.



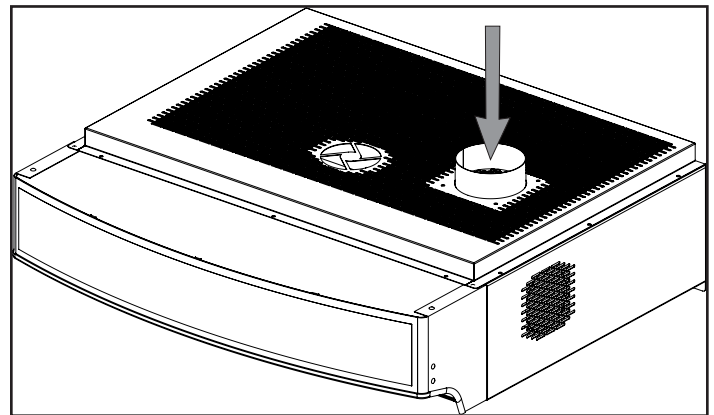
### Step 14

Align the IVS Cover holes and install the 14 screws (#8-32) to secure it.



### Step 15

Connect the IVS blower outlet as required per local codes and/or other applicable codes using 5" rigid metal duct work. Do not use plastic dryer duct vent. Duct and clamps are not included with the IVS.



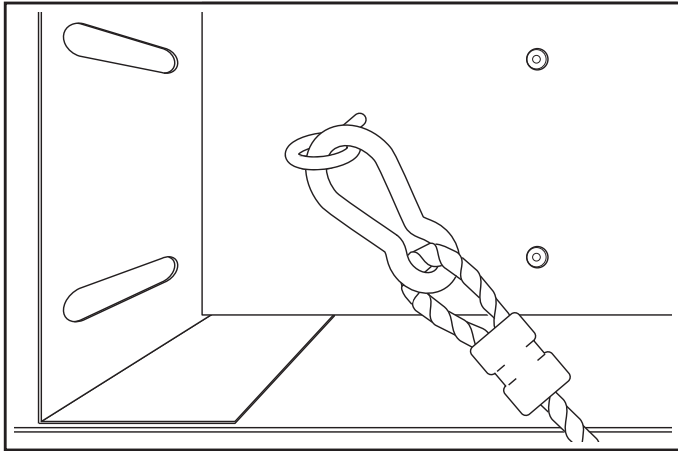
### Step 16

Verify Proper Connection of Proof and Bake oven to Building Structure

**⚠ WARNING ⚡**

**ELECTRICAL SHOCK HAZARD.**

**THIS RESTRAINING DEVICE MUST ALWAYS BE CONNECTED WHEN THE APPLIANCE IS IN SERVICE. DISCONNECT ONLY FOR SERVICING AND/OR CLEANING, THEN RECONNECT WHEN THE APPLIANCE HAS BEEN RETURNED TO ITS NORMAL POSITION.**



This oven appliance must be secured to building structure. A restraining device kit (#153586) was provided with the FlexBake 5™ unit to limit the movement of the appliance without depending on or transmitting stress to the electrical conduit. Installation instruction is in the kit.




**NOTE: The appliance shall be installed using flexible conduit or equivalent to meet the local electrical codes and shall be of sufficient length to allow the equipment to be moved for cleaning.**



**IMPORTANT: A minimum clearance of 6" from the top of unit to the ceiling must be provided.**

## CONFIGURE IVS HOOD TO FLEXBAKE 5™

### Step 1

Press the  button at the top right corner of the touch screen.

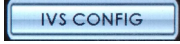


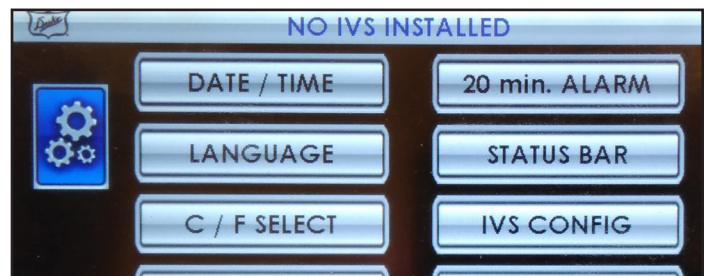
### Step 2

Press the  and enter PIN 2345 press .



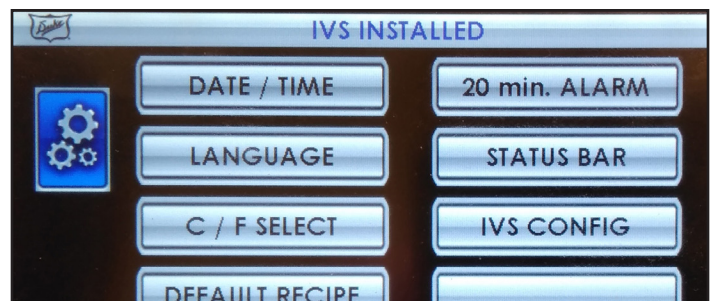
### Step 3

Press the  top tool bar will display : "NO IVS INSTALLED"



### Step 4

Press the  again and the top tool bar will display : "IVS INSTALLED"



**NOTE: Each time "IVS CONFIG" is touched it will toggle between "IVS INSTALLED" and "IVS NOT INSTALLED".**

### Step 5

Press the  button until you return to the main screen.

## OVEN START-UP



**ELECTRICAL SHOCK HAZARD.**

**TASKS MUST BE PERFORMED BY A QUALIFIED SERVICE TECHNICIAN OR ELECTRICIAN.**

- a. Have a qualified service technician or electrician connect the oven to the power supply.
- b. Check for unrestricted airflow exiting from the IVS blower outlet and any attached vent piping.

## CARE AND CLEANING



**ELECTRICAL SHOCK HAZARD.**

**DO NOT WASH WITH WATER JET OR HOSE**

**DO NOT USE OVEN CLEANERS, CAUSTIC CLEANERS, DEGREASERS, ACIDS, AMMONIA PRODUCTS, ABRASIVE CLEANERS, STEEL WOOL, OR ABRASIVE PADS CONTAINING IRON. THESE CAN DAMAGE THE STAINLESS STEEL, DOOR GASKETS, PLASTIC SURFACES AND SENSORS.**

### DAILY CLEANING INSTRUCTIONS

- a. Turn power off to the unit by pressing the Control Power Switch off.
- b. Wipe down the interior and exterior of the IVS with warm water and mild detergent using a soft cloth.

## TROUBLESHOOTING

There are no user serviceable parts on the Duke IVS. If there is a malfunction, contact your Duke Manufacturing authorized service agent or call 1-800-735-3853.



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