

# VH Series Hood Installation and Operation Manual



**VH 31,32,33,35 Integrated Exhaust Hood Models for  
Moffat Oven Models E31, E32, E33, E35-26 and E35-30**

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## Table of Contents

TECHNICAL SPECIFICATIONS .....	4
FOR YOUR SAFETY .....	12
INTRODUCTION .....	24
PARTS IDENTIFICATION/ FUNCTION AND EXPLODED VIEW .....	24
INSTALLATION INSTRUCTIONS.....	25
INSTALLATION INSTRUCTIONS – VHIK INSTALL KITS .....	37
TROUBLESHOOTING GUIDE .....	43
REPLACEMENT PARTS .....	44
MAINTENANCE .....	52
WIRING DIAGRAMS .....	55

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## Technical Specifications

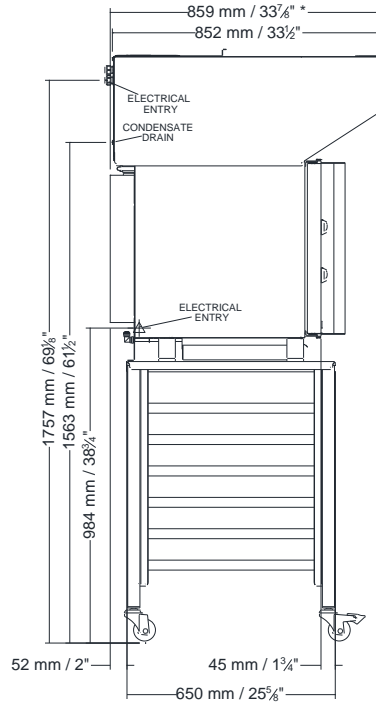
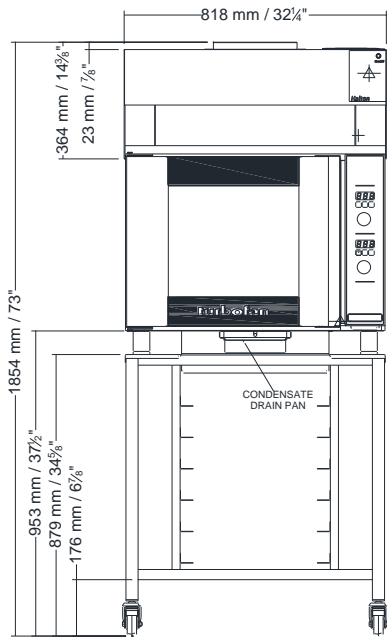
Matching Halton Hood with Turbofan Convection Ovens, Installation Kits and Stands

HOOD	OVEN <sup>1</sup>	INSTALL KIT	STAND <sup>1</sup>
VH31	E31D	VHIK31	SK2731N
			SK2731U
VH32	E32D E32T	VHIK32	SK32
VH33	E33D E33T	VHIK33	SK33N-VH
			SK33U-VH
VH35-26	E35-26D E35-26T	VHIK35 <sup>2</sup>	SK35
VH35-30	E35-30D E35-30T		

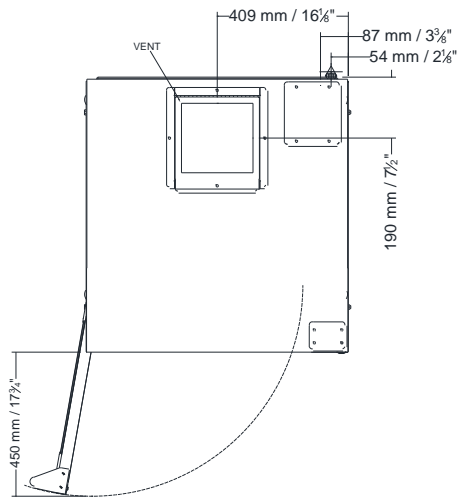
<sup>1</sup> Ovens and Stands built after Week 4:2021

<sup>2</sup> VHIK35 Install kit not required if Hood condensate drain is piped directed to suitable drain.

# VH31



\* ALLOW 76mm / 3" ADDITION REAR CLEARANCE



## HALTON HOOD VH31 / TURBOFAN CONVECTION OVEN E31 AND STAND SK2731

### VH31 HOOD POWER RATINGS

120V, 1P+N+E, 50-60Hz, 1.6A	PLUG NEMA 5-15	
230-240V, 1P+N+E, 50-60Hz, 0.5A	PLUG AU/NZ 10A	
	PLUG UK 13A	
	LOW	HIGH
CFM (M³/Hr)	132(224)	248(421)
SOUND dB	62	73

### VH31 HOOD WEIGHT AND PACKING DATA

NETT WEIGHT	46kg / 101 lbs
HOOD WIDTH	818mm / 32 1/4"
HOOD HEIGHT	364mm / 14 3/8"
HOOD DEPTH	852mm / 33 1/2"
PACKED WEIGHT	68kg / 150 lbs
PACKED WIDTH	875mm / 34.5"
PACKED HEIGHT	545mm / 21.5"
PACKED DEPTH	965mm / 38"

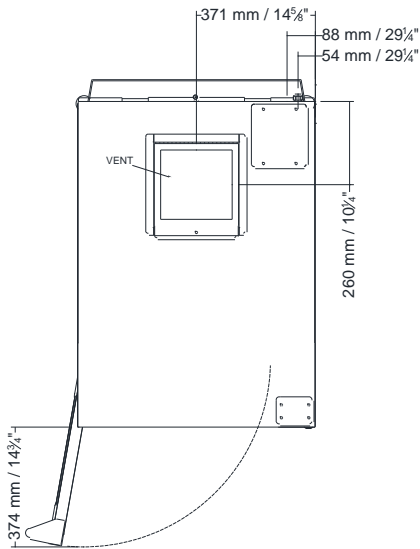
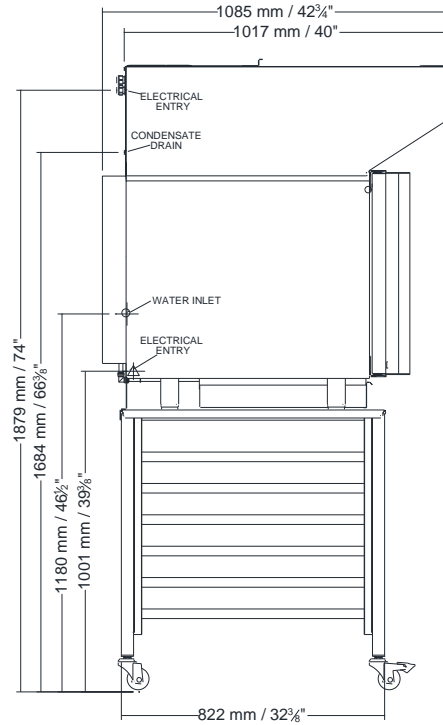
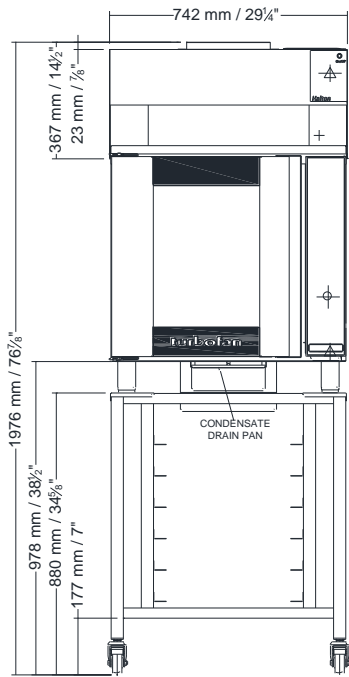


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## VH32



### HALTON HOOD VH32 / TURBOFAN CONVECTION OVEN E32 AND STAND SK32

#### VH32 HOOD POWER RATINGS

120V, 1P+N+E, 50-60Hz, 1.6A	PLUG NEMA 5-15	
230-240V, 1P+N+E, 50-60Hz, 0.5A	PLUG AU/NZ 10A	
	PLUG UK 13A	
	LOW	HIGH
CFM (M³/Hr)	132(224)	248(421)
SOUND dB	62	73

#### VH32 HOOD WEIGHT AND PACKING DATA

NETT WEIGHT	46.5kg / 103 LBS	
HOOD WIDTH	742mm / 29 1/4"	
HOOD HEIGHT	368mm / 14 1/2"	
HOOD DEPTH	1017mm / 40"	
PACKED WEIGHT	57kg / 125 LBS	
PACKED WIDTH	800mm / 31 1/2"	
PACKED HEIGHT	545mm / 21 1/2"	
PACKED DEPTH	1120mm / 44"	

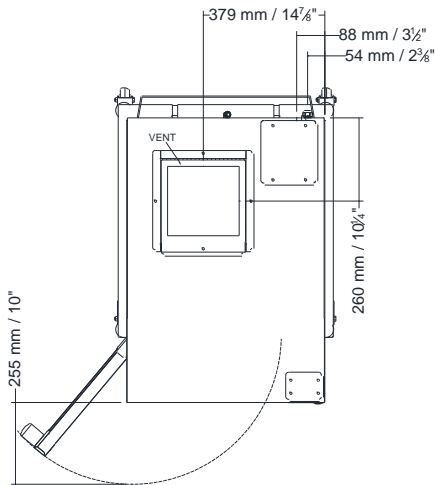
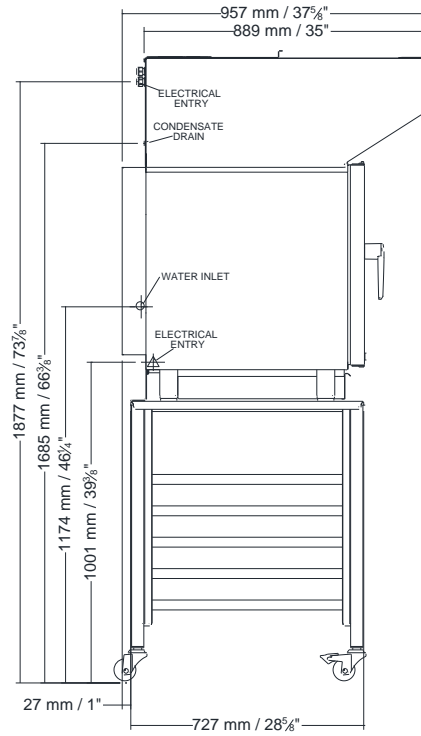
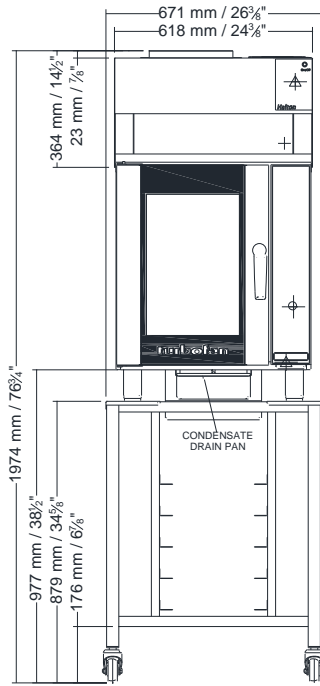


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# VH33



## **HALTON HOOD VH33 / TURBOFAN CONVECTION OVEN E33 AND STAND SK33H**

### VH33 HOOD POWER RATINGS

120V, 1P+N+E, 50-60Hz, 1.6A	PLUG NEMA 5-15	
230-240V, 1P+N+E, 50-60Hz, 0.5A	PLUG AU/NZ 10A	
	PLUG UK 13A	
	LOW	HIGH
CFM (M³/Hr)	132(224)	248(421)
SOUND dB	62	73

### VH33 HOOD WEIGHT AND PACKING DATA

NETT WEIGHT	39kg / 86 lbs
HOOD WIDTH	618mm / 24 3/8"
HOOD HEIGHT	367mm / 14 1/2"
HOOD DEPTH	889mm / 35"
PACKED WEIGHT	50kg / 110 lbs
PACKED WIDTH	675mm / 26 1/2"
PACKED HEIGHT	545mm / 21 1/2"
PACKED DEPTH	1005mm / 39 1/2"

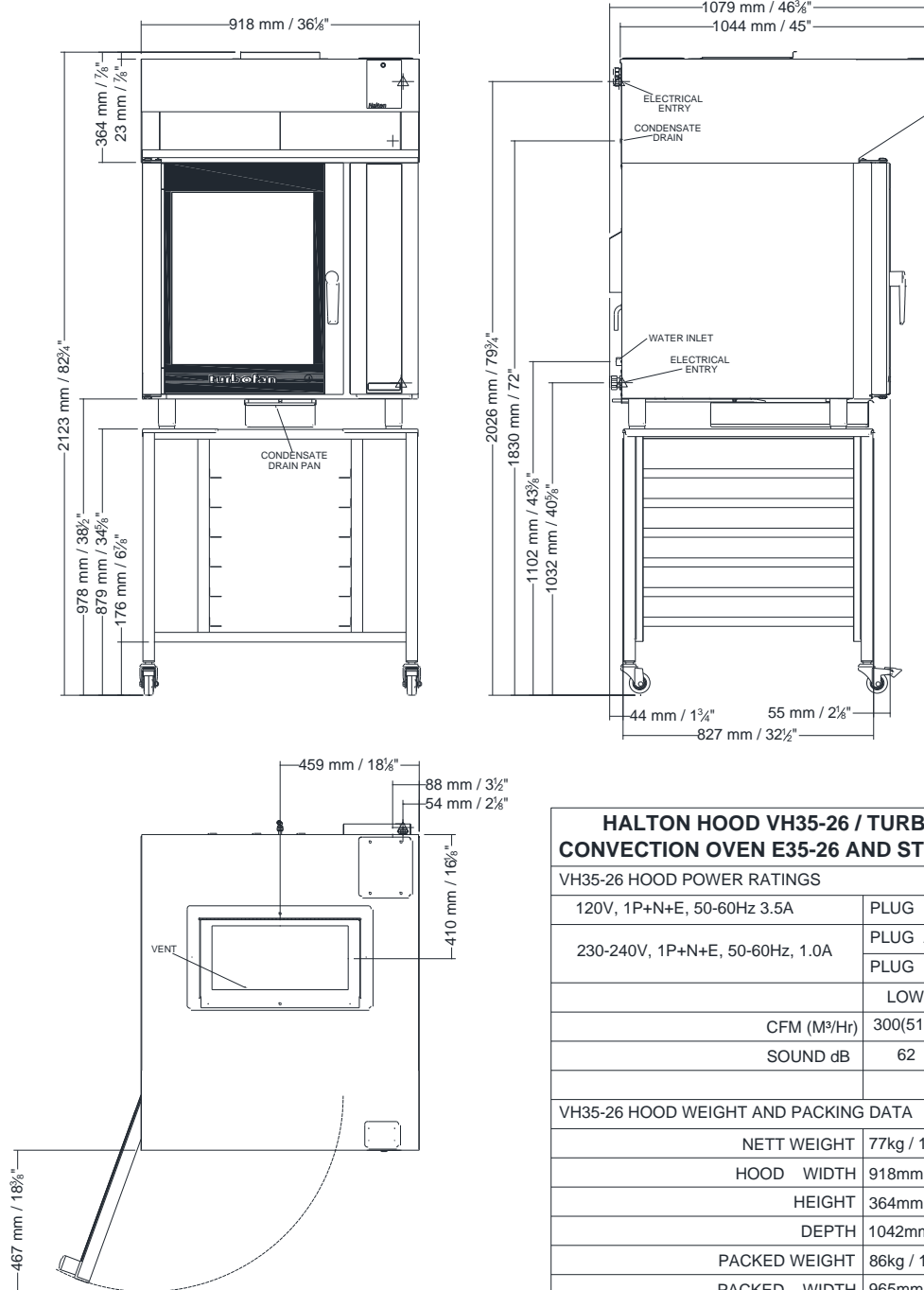


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# VH35-26



## **HALTON HOOD VH35-26 / TURBOFAN CONVECTION OVEN E35-26 AND STAND SK35**

### VH35-26 HOOD POWER RATINGS

120V, 1P+N+E, 50-60Hz 3.5A	PLUG NEMA 5-15	
230-240V, 1P+N+E, 50-60Hz, 1.0A	PLUG AU/NZ 10A	
	PLUG UK 13A	
	LOW	HIGH
CFM (M³/Hr)	300(510)	678(1152)
SOUND dB	62	73

### VH35-26 HOOD WEIGHT AND PACKING DATA

NETT WEIGHT	77kg / 170 lbs
HOOD WIDTH	918mm / 36 1/8" Width
HOOD HEIGHT	364mm / 14 3/8" Height
HOOD DEPTH	1042mm / 41" Depth
PACKED WEIGHT	86kg / 190 lbs
PACKED WIDTH	965mm / 38" Width
PACKED HEIGHT	545mm / 21.5" Height
PACKED DEPTH	1145mm / 45" Depth



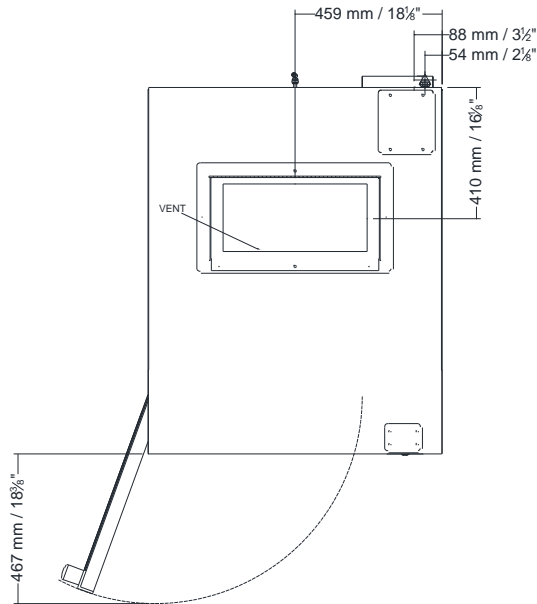
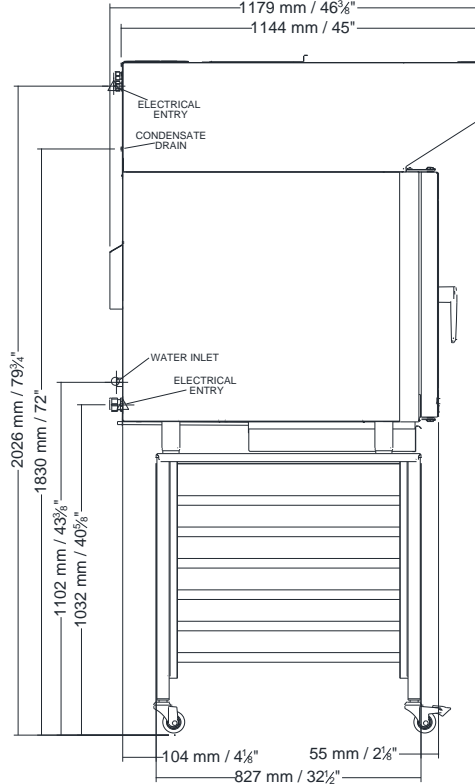
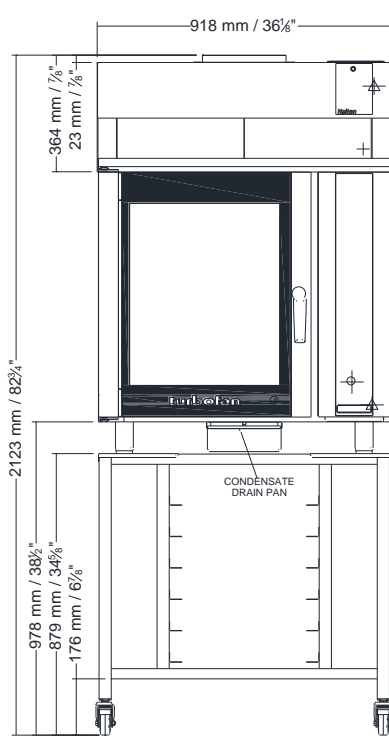
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# VH35-30



## **HALTON HOOD VH35-30 / TURBOFAN CONVECTION OVEN E35-30 AND STAND SK35**

### **VH35-30 HOOD POWER RATINGS**

120V, 1P+N+E, 50-60Hz, 3.5A	PLUG NEMA 5-15	
230-240V, 1P+N+E, 50-60Hz, 1.0A	PLUG AU/NZ 10A	
	PLUG UK 13A	
	LOW	HIGH
CFM (M³/Hr)	300(510)	678(1152)
SOUND dB	62	73

### **VH35-30 HOOD WEIGHT AND PACKING DATA**

NETT WEIGHT	79.5kg / 175 lbs
HOOD WIDTH	918mm / 36 1/8"
HEIGHT	364mm / 14 3/8"
DEPTH	1144mm / 45"
PACKED WEIGHT	89kg/ 196 lbs
PACKED WIDTH	965mm / 38"
HEIGHT	545mm / 21 1/2"
DEPTH	1260mm / 49 1/2"



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## For Your Safety

This section provides you with all the information you need in order to use the appliance safely without putting yourself or others at risk.

**You should read this chapter carefully in particular**

### **Contents**

This chapter contains the following topics:

	<b>Page</b>
Basic safety code	11
Warnings on the condensation hood	12
Summary of hazards	13
Additional hazards and safety precautions	15
Safety devices	20
Requirements to be met by personnel, working positions	22
Personal protective equipment	23

## Basic Safety Code

### Object of this safety code

This safety code aims to ensure that all persons using the appliance have a thorough knowledge of the hazards and safety precautions and that they follow the safety directions given in the operating instructions and on the appliance. If you do not follow this safety code, you risk potentially fatal injury and property damage.

### Working with the operating instructions

Follow the instructions below:

- Read in full the safety chapter and chapters that relate to your work
- Always keep the operating instructions to hand for reference
- Pass on the operating instructions with the appliance if it changes owners

### Working with the appliance

Follow the instructions below:

- Only people who satisfy the requirements set forth in these operating instructions are allowed to use the appliance.
- People (including children) who, because of their physical, sensory or intellectual capabilities, or because of their lack of experience or knowledge, are incapable of using the appliance safely, must not use this equipment without the supervision or guidance of a responsible person.
- Use the appliance only for its specified use. Never, under any circumstances, use the appliance for any other purposes that might seem self-evident.
- Take all the safety precautions specified in these operating instructions and on the appliance. In particular, use the prescribed personal protective equipment.
- Only stand in the working positions specified.
- Do not make any changes to the appliance, e.g. do not remove parts or install non-approved parts. In particular, you must not disable any safety devices.

## Warnings on the Condensation Hood

### Where are the warning signs fitted?

The picture below shows the location of the warning labels on the VH Hoods



### Warnings on the rear panel

The following warning signs must be attached to the condensation hood in the area indicated to be easily visible at all times.

Area	Warning sign	Description
1		<b>Warning of dangerous electric voltage / electric shock.</b> There is a risk of electric shock from live parts if the safety cover is opened.

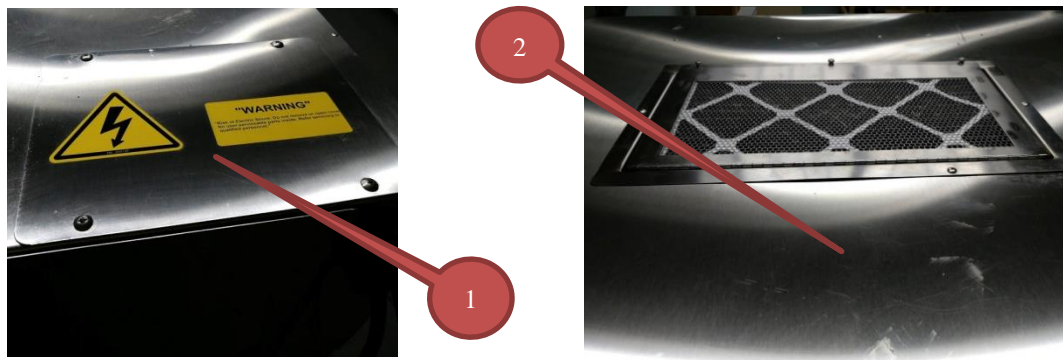
## Summary of Hazards

### General rules for dealing with hazards and safety precautions

The appliance is designed to protect the user from all hazards that can reasonably be avoided by design measures. The actual purpose of the appliance, however, means that there are still residual risks; you must therefore take precautions to avoid them. A safety device can provide you with a certain degree of protection against some of these hazards. You must ensure, however, that these safety devices are in place and in working order. The nature of these residual risks and what effect they have are described below:

### Hazard points

The photos below show the location of hazard points on the VH Hoods



Item	Name
1	Electric box cover
2	Fan box cover

### Damaged power cable

The appliance's power cable may become damaged during transit. This poses:

- A risk of electric shock from damaged power cable.

### Live parts

The appliance contains live parts. This poses:

- A risk of electric shock if covers are not in place.
- A risk of electric shock caused by a short-circuit when spraying water on the appliance.

### Missing equipotential bonding

No equipotential bonding installed. This poses:

- A risk of electric shock when the hood is not incorporated into the equipotential bonding of the convection oven.

### Clogged filters and case components

Sparks can ignite grease if the filters and accessible case parts have not been cleaned adequately. This poses:

- Grease fire hazard due to insufficient cleaning.

### **Hot steam / vapor**

The convection oven generates hot steam and vapor that escape when the appliance door is opened. This poses:

- A risk of scalding from hot steam when the appliance door is opened. You are protected from hot steam by the appliance door itself.

### **Hot components**

Touching the baffle filters, mist collectors or inside surfaces directly after opening the appliance door or if the hood is fitted on the appliance but not yet in operation (no mains connection) poses:

- A risk of burns from hot components.

### **Condensation collection**

The hood is fitted on the appliance but not yet in operation. This poses:

- A risk of mold formation from condensation collecting inside the appliance.

### **Overstressing your body**

If a single person tries to lift the appliance by himself/herself, the appliance's weight may lead to:

- A risk of injury, especially in the area of the torso, from incorrect lifting.

### **Contact with cleaning agents**

Cleaning agents can come into direct contact with your skin and eyes. This poses:

- Risk of skin and eye irritation or chemical burns.

### **Hood falling down**

If the hood is not fastened to the convection oven correctly, the hood may slip and fall down.

This poses:

- Risk of crushing various parts of the body from the hood falling down.

### **Combined units falling over**

Mounting the hood on top of the convection oven increases the risk of the units toppling over.

This poses:

- Risk of crushing various parts of the body from combined units falling over.

### **Pinching of hands by various activities**

For various actions, such as cleaning the appliance, there is a risk that you will pinch your hand.

### **Rotating fan**

The appliance contains a fan. This poses:

- A risk of hand injuries or hair or loose clothing being caught by the rotating fan wheel if the cover is not fitted properly.

### **Overhang of the hood**

The hood extends beyond the convection oven. This poses:

- Danger of hitting the overhanging hood.

## Additional hazards and safety precautions

### Moving and setting up the appliance

When moving and setting up the convection oven, be aware of the following hazards and take the specified preventive actions:

Danger	Where or in what situations does the hazard arise?	Preventive action / Safety device
Risk of electric shock from live parts	When replacing the ventilation port behind the left side panel of the combi steamer.	<ul style="list-style-type: none"> <li>Work on the electrical system must only be performed by qualified electricians from an authorized service company</li> <li>Professional working</li> </ul>
		Before removing the covers: <ul style="list-style-type: none"> <li>Switch off all connections to the power supply</li> <li>Take protective measures at every power switch to ensure that the power cannot be switched on again.</li> <li>Make sure that the appliance is de-energized</li> </ul>
A risk of electric shock from damaged power cable	On the appliance rear	Check the power cable
Risk of injury from over-stressing your body	When setting up and moving the hood	Only with enough people or appropriate tools
Risk of crushing from hood falling down	If installation was carried out incorrectly	<ul style="list-style-type: none"> <li>Secure in place</li> <li>Use the parts intended for this purpose</li> <li>Wear personal protective equipment</li> <li>Exercise caution when performing this action</li> </ul> <b>Safety device:</b> <ul style="list-style-type: none"> <li>Securing with fixing screws</li> </ul>
	When moving the appliance (within the site)	<ul style="list-style-type: none"> <li>Always use appropriate equipment</li> <li>Secure appliance against tipping over</li> <li>Exercise caution when performing this action</li> <li>Avoid moving appliance along uneven routes or up or down steep slopes.</li> </ul>
Risk of crushing from the combined units falling over	When fitting a hood to a combi steamer	<ul style="list-style-type: none"> <li>Check that the combined units cannot tip over</li> <li>Ensure that they are fitted on a horizontal and flat surface</li> </ul>
Danger of hitting the overhanging hood	In front of the appliance door	Exercise caution <b>Safety device:</b> <ul style="list-style-type: none"> <li></li> </ul>
Risk of hands and fingers being pinched	<ul style="list-style-type: none"> <li>When placing the hood in position</li> <li>When fitting the filters</li> <li>When fitting the adapter</li> </ul>	<ul style="list-style-type: none"> <li>forming this action</li> <li>Wear personal protective equipment</li> <li>Follow the instructions in the manual for installation</li> </ul>
Risk of cuts	When breaking out the perforation	<ul style="list-style-type: none"> <li>Exercise caution when performing this action</li> <li>Wear personal protective equipment</li> <li>Follow the instructions in the manual when removing perforated sections, and deburr the section edges</li> </ul>

## Operation

When operating the oven, be aware of the following hazards and take the specified preventive actions:

Danger	Where or in what situations does the hazard arise?	Preventive action / Safety device
Risk of electric shock caused by moisture entering the wiring compartment	Installation not carried out properly	Follow the instructions in the manual for installation
Risk of scalding from hot steam	<ul style="list-style-type: none"> <li>▪ In front of the appliance door</li> <li>▪ In the hood's equipment room</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check safety device</li> <li>▪ use safety device</li> <li>▪ Only reach into the system once it has cooled down</li> </ul> <p><b>Safety device:</b></p> <ul style="list-style-type: none"> <li>▪ Venting position of appliance door</li> <li>▪ High hood fan extraction rate</li> </ul>
Grease fire hazard due to insufficient cleaning	Outside the hood	Clean regularly in accordance with the cleaning instructions
A risk of mold formation from condensation collecting inside the appliance	Outside the hood	<p>Make sure the hood is plugged in when the combi steamer is running</p> <p><b>Safety device:</b></p> <ul style="list-style-type: none"> <li>▪ The hood is switched automatically with the combi steamer</li> <li>▪ Condensate drain</li> </ul>
A risk of burns from hot components	Outside and inside the hood	<ul style="list-style-type: none"> <li>▪ Do not touch the baffle filters, mist collectors or the interior directly after opening the appliance door</li> <li>▪ If the hood is fitted on the appliance but not yet in operation (no mains connection)</li> </ul>
Risk of injuries from rotating fan	Inside the chamber	<p>Checking safety devices</p> <p><b>Safety device:</b></p> <ul style="list-style-type: none"> <li>▪ Cover in front of fans</li> <li>▪ Baffle filter</li> <li>▪ Mist collector</li> </ul>
Danger of hitting the overhanging hood	In front of the appliance door	Exercise caution



## Cleaning

When cleaning the Hood, be aware of the following hazards and take the specified preventive actions:

<b>Danger</b>	<b>Where or in what situations does the hazard arise?</b>	<b>Preventive action / Safety device</b>
Risk of <b>electric shock</b> caused by a short-circuit	Outside the hood	<ul style="list-style-type: none"><li>▪ Do not clean with water jet</li><li>▪ Disconnect from the power supply before cleaning</li></ul>
Risk of <b>electric shock</b> from live parts	Under the cover	Check safety device
A risk of burns from hot surfaces	Inside the case	<ul style="list-style-type: none"><li>▪ Allow to cool down before cleaning</li><li>▪ Wear personal protective equipment</li></ul>
Risk of mold formation due to inadequate cleaning	Outside the hood	Clean regularly in accordance with the cleaning instructions
Risk of skin and eye irritation or chemical burns from contact with cleaning agents	During all cleaning tasks	Wear personal protective equipment
	When corrosive cleaning agents are used	<ul style="list-style-type: none"><li>▪ Only use common household cleaning agents</li><li>▪ Wear personal protective equipment</li></ul>
Risk of hand injuries from crushing	<ul style="list-style-type: none"><li>▪ When cleaning the baffle filters:</li><li>▪ When cleaning the mist collectors</li><li>▪ When replacing the secondary filters</li></ul>	Exercise caution when performing these tasks
Risk of crushing from filters falling out	When fitting and removing the filters	Exercise caution when performing this action
Risk of injuries from rotating fan	Inside the chamber	<ul style="list-style-type: none"><li>▪ Checking safety devices</li><li>▪ Disconnect from the power supply before cleaning</li></ul> <b>Safety device:</b> <ul style="list-style-type: none"><li>▪ Cover in front of fans</li><li>▪ Baffle filter</li><li>▪ Mist collector</li></ul>
<b>Danger</b> of hitting the overhanging hood	In front of the appliance door	Exercise caution
Risk of cuts	<ul style="list-style-type: none"><li>▪ Along the edges of the break-outs</li><li>▪ On the case edges</li></ul>	<ul style="list-style-type: none"><li>▪ Exercise caution when performing this action</li><li>▪ Wear personal protective equipment</li></ul>

### Installing, preparing for first-time use, taking out of operation and servicing

When installing or servicing the convection oven, preparing it for first-time use or taking it out of operation, be aware of the following hazards and take the preventive actions:

<b>Danger</b>	<b>Where or in what situations does the hazard arise?</b>	<b>Preventive action / Safety device</b>
Risk of electric shock caused by moisture entering the wiring compartment	Installation not carried out properly	Follow the instructions in the manual for installation
Risk of scalding from hot steam	<ul style="list-style-type: none"><li>▪ In front of the appliance door</li><li>▪ In the hood's equipment room</li></ul>	<ul style="list-style-type: none"><li>▪ Check safety device</li><li>▪ use safety device</li><li>▪ Only reach into the system once it has cooled down</li></ul> <b>Safety device:</b> <ul style="list-style-type: none"><li>▪ Venting position of appliance door</li><li>▪ High hood fan extraction rate</li></ul>
A risk of burns from hot components	Outside and inside the hood	Do not touch the baffle filters, mist collectors or the interior directly after opening the appliance door
Risk of injury from over-stressing your body	When moving the hood	Only with enough people or appropriate tools
Risk of crushing from hood falling down	<ul style="list-style-type: none"><li>▪ When the hood is not secured on the combi steamer</li><li>▪ When removing or fitting the hood</li></ul>	<ul style="list-style-type: none"><li>▪ Fasten to the combi steamer</li><li>▪ Wear personal protective equipment</li></ul> <b>Safety device:</b> <ul style="list-style-type: none"><li>▪ Securing with fixing screws</li></ul>
Risk of crushing from the combined units falling over	When fitting a hood to a combi steamer	<ul style="list-style-type: none"><li>▪ Check that the combined units cannot tip over</li><li>▪ Ensure that they are fitted on a horizontal and flat surface</li></ul>
Risk of electric shock if equipotential bonding not installed	On the appliance and on adjacent metal parts	Incorporate hood in an equipotential bonding system <b>Safety device:</b> <ul style="list-style-type: none"><li>▪ Equipotential bonding system</li></ul>

<b>Danger</b>	<b>Where or in what situations does the hazard arise?</b>	<b>Preventive action / Safety device</b>
Risk of electric shock from live parts	<ul style="list-style-type: none"> <li>▪ Under the cover of the hood</li> <li>▪ Behind the left side panel of the combi steamer</li> <li>▪ When replacing the fuses</li> </ul>	<ul style="list-style-type: none"> <li>▪ Work on the electrical system must only be performed by authorized customer service engineers</li> <li>▪ Professional working</li> <li>▪ Disconnect power supply before removing the cover</li> <li>▪ Take protective measures to ensure the power cannot be switched on again</li> <li>▪ Make sure that the appliance is de-energized</li> </ul>
A risk of electric shock from damaged power cable	On the appliance rear	Check the power cable
Risk of injuries from rotating fan	Inside the chamber	<ul style="list-style-type: none"> <li>▪ Checking safety devices</li> <li>▪ Disconnect from the power supply before carrying out installation and servicing work</li> </ul> <b>Safety device:</b> <ul style="list-style-type: none"> <li>▪ Cover in front of fans</li> <li>▪ Baffle filter</li> <li>▪ Mist collector</li> </ul>
Danger of hitting the overhanging hood	In front of the appliance door	Exercise caution
Risk of cuts	<ul style="list-style-type: none"> <li>▪ Along the edges of the break-outs</li> <li>▪ On the case edges</li> </ul>	<ul style="list-style-type: none"> <li>▪ Exercise caution when performing this action</li> <li>▪ Wear personal protective equipment</li> </ul>

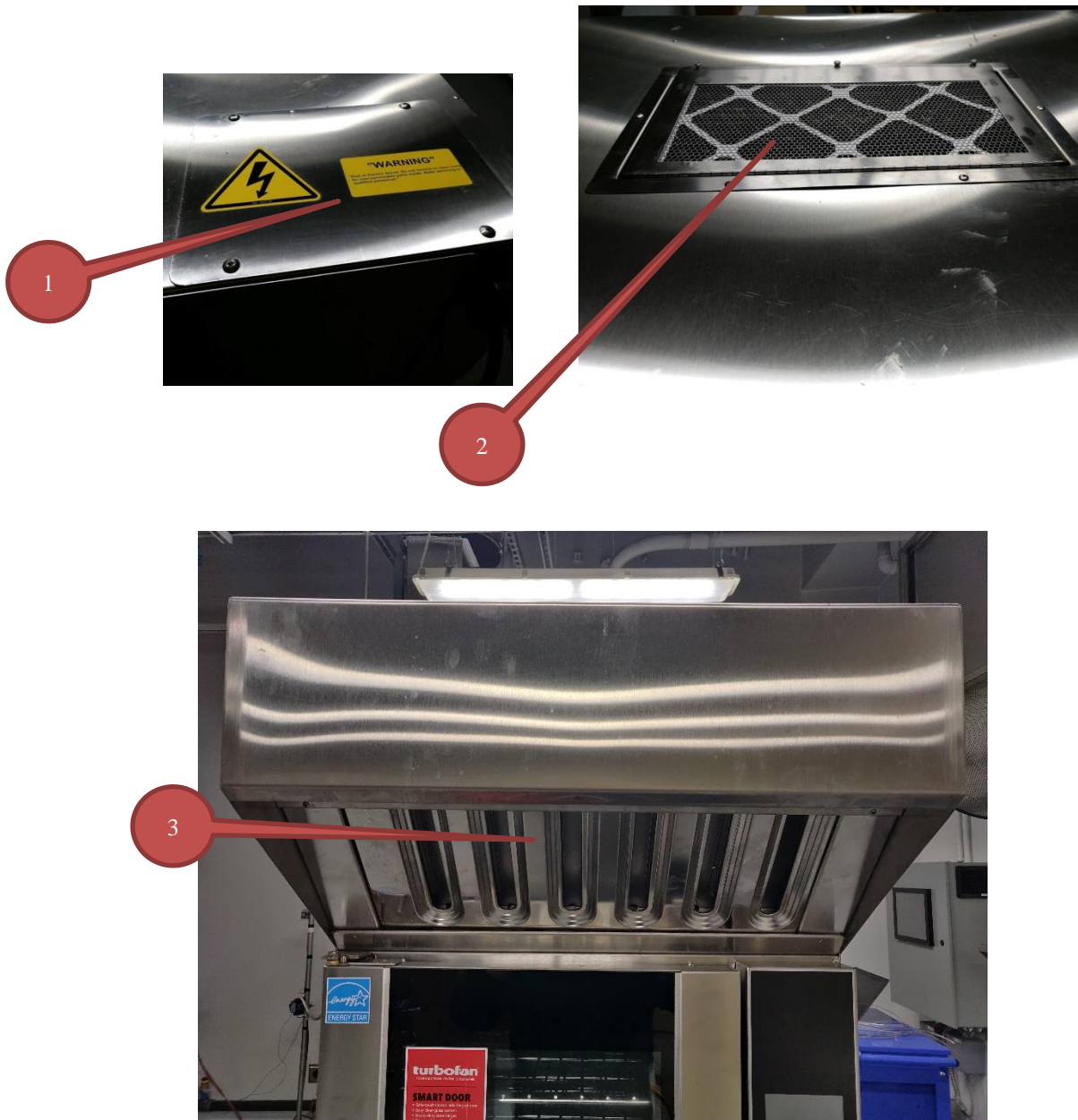
## Safety Devices

### Meaning

The hood has a number of safety devices to protect the user from hazards. It is essential that all safety devices are fitted and in working order when operating the hood.

### Position

The following photos show the location of the safety devices



### **Functions**

The following table enumerates all the safety devices on the hood, explains their function, and describes the check procedure.

<b>Item</b>	<b>Safety device</b>	<b>Function</b>	<b>Check</b>
<b>1</b>	Electric box cover	Prevents live parts from being touched accidentally	Check that the cover is in place
<b>2</b>	Fan box cover	Prevents access to the moving fan wheel	Check that the cover is in place
<b>3</b>	Baffle filter	Prevents contact with hot parts inside the hood	Check that the baffle filters are in place
<b>4 (no picture)</b>	Steam condensation	<ul style="list-style-type: none"><li>▪ Low fan extraction rate</li><li>▪ High fan extraction rate</li></ul>	Check whether the fan is running

## Requirements to be met by personnel, working positions

### Requirements to be met by personnel

People using the hood must meet the following requirements

Personnel	Qualifications	Tasks
Chef	<ul style="list-style-type: none"><li>▪ Has relevant professional training</li><li>▪ Knows relevant national food legislation and regulations, plus hygiene legislation and regulations</li><li>▪ Trained in how to operate the hood</li></ul>	<ul style="list-style-type: none"><li>▪ Turning the hood on / off</li><li>▪ Cleaning the hood</li></ul>
User	<ul style="list-style-type: none"><li>▪ Semi-skilled</li><li>▪ Trained in how to operate the hood</li></ul>	<ul style="list-style-type: none"><li>▪ Turning the hood on / off</li><li>▪ Cleaning the hood</li><li>▪ Minor servicing tasks</li></ul>
Installation engineer	<ul style="list-style-type: none"><li>▪ Is an authorized customer service engineer</li><li>▪ Has relevant professional training</li><li>▪ Is a qualified electrician</li><li>▪ Knows national laws and regulations</li></ul>	<ul style="list-style-type: none"><li>▪ Installation</li><li>▪ Preparing the appliance for use</li><li>▪ Servicing</li></ul>

### Working positions during operation

The working position for personnel while operating the hood is in front of the convection oven.

### Working positions during cleaning and servicing

The working position for staff during cleaning and servicing is the entire appliance area.

## Personal protective equipment

### Operating and cleaning

Activity	Materials used	Personal protective equipment
Operating the convection oven with the hood	None	Work wear as specified in the corresponding country-specific regulations regarding kitchen work, in particular: <ul style="list-style-type: none"><li>▪ Protective clothing</li><li>▪ Protective glove or a suitable cloth</li><li>▪ Safety boots</li></ul>
Cleaning the hood	None	Work wear as specified in the corresponding country-specific regulations regarding kitchen work, in particular: Personal protective equipment in accordance with the specifications of the cleaning agent manufacturer and the EC material safety data sheets.

### Installation and servicing

Activity	Materials used	Personal protective equipment
Installing and servicing the convection oven fitted with hood	According to the task	Work wear as specified in national regulations and depending on the job that needs doing

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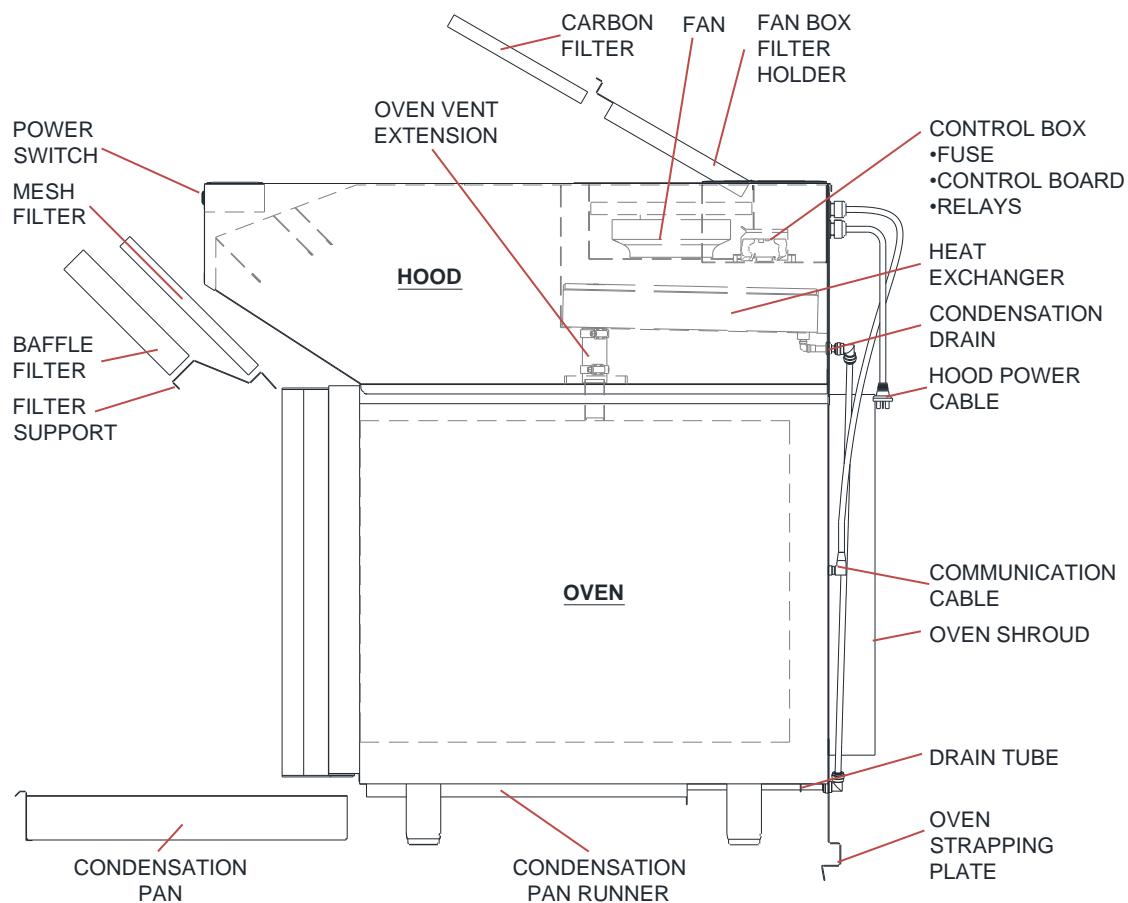
## Introduction

The VH Hoods are a recirculating exhaust system designed to be exclusively integrated with the E31, E32, E33 and E35 Moffat ovens. This hood system, when installed correctly, is intended to greatly reduce the latent and convective heat loads generated by the oven. The E31, E32, E33 and E35 Moffat ovens carry ETL safety listings, and the hood has been tested by UL as a safe and accepted accessory for the oven.

When functioning normally, the VH Hood will run continuously at low speed. High speed mode will be enabled when certain special events are met, which include:

- Door is opened: Immediately activate high speed
  - Recipe ends: a certain time, which can be set in tunable parameters (Default = 10 s) before recipe ends, high speed is activated.
- 

## Parts Identification/ Function and Exploded View





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## Installation Instructions

Upon receipt of the system, inspect it immediately for any shipping damage and notify carrier immediately if damage is found. Additionally, please notify your \*enter company name\* customer service representative to note any damages.

It is the responsibility of the installing contractor to see that the system installation is completed in accordance with the project plans and specifications and that it meets all specific requirements of local code officials. The local authority having jurisdiction could overrule some of the installation details written in this manual. The installation shall be in accordance with NFPA-96. All electrical systems shall be installed following local and national codes. It is very important that the system be turned over to the owner in the best condition possible. The owner and/or operator should be instructed in the proper operation, care and maintenance of the system.

If questions or complications should arise during the installation of the \*enter hood name\* hood that cannot be solved using the instructions, please contact your \*enter company name\* customer service representative.

## Tools Required

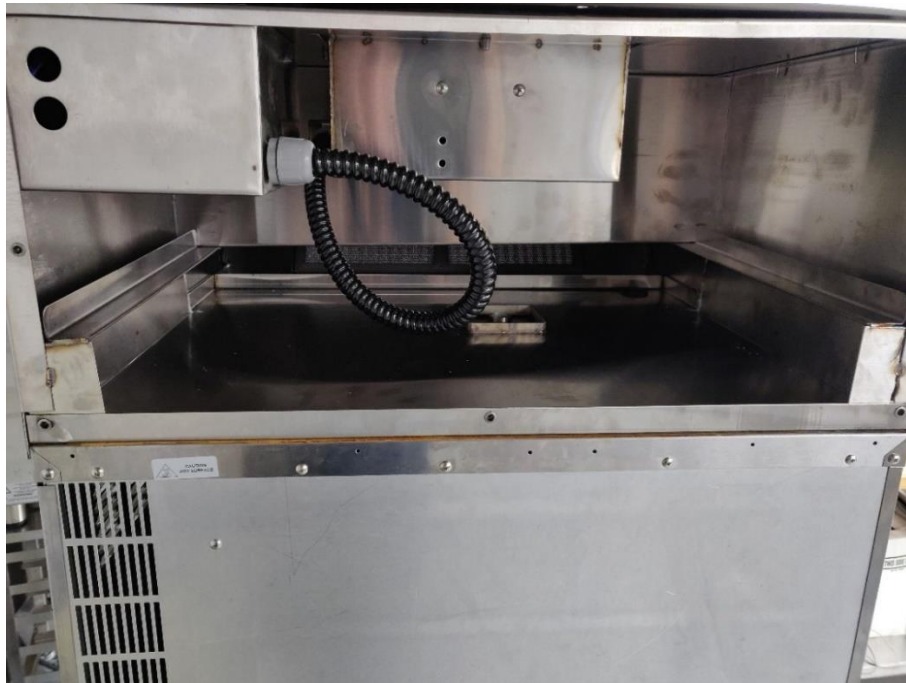
- #2 Phillips Screwdriver (Mounting Brackets, Access Panels, Optional Side Vent)
- ¼" Flat Head Screwdriver (Heat Exchanger Band Clamps)
- 4 people to lift hood into position
  - Hood weight is 130, 150, 106, and 170 lbs for the VH31, VH32, VH33 and VH35 hood models respectively, and should be lifted with 4 people, 1 person on each corner.

## Installation Procedure

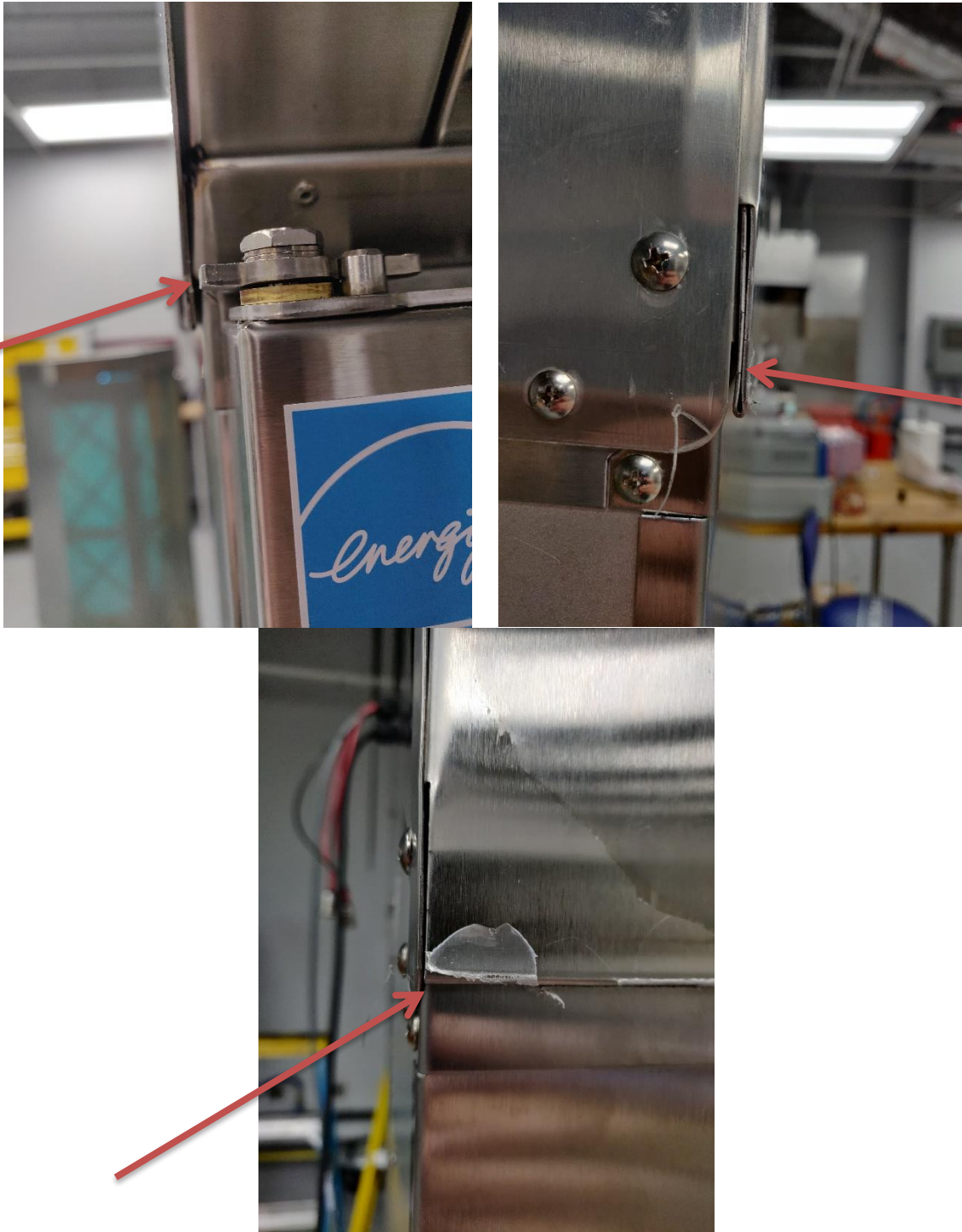
1. Carefully unpack the unit. Unit is designed to fit the E31, E32, E33 and E35 Moffat ovens.
2. Remove the plastic protective film covering.
  - a. Do not leave unit (s) exposed to extreme temperatures for an extended period of time; this may cause the protective PVC coating around the unit(s) to become very difficult to remove.
3. Remove the Rear Access Panel from the hood and set aside.
4. Remove the heat exchanger and set aside



5. Identify all Loose Parts contents match the photo below and set aside for future use. \*identify all loose parts\*
6. Ensure top of oven is free of grease and debris.
7. Lift the hood onto the oven. The square cutout close to the center of the hood will fit over the ventilation port on top of the oven.

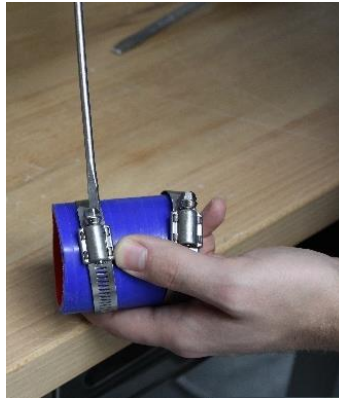


8. Ensure that all overlapping hems on the hood are positioned correctly on each side of the oven. The rear, left and right sides of the hood should hang slightly over the top of the oven.

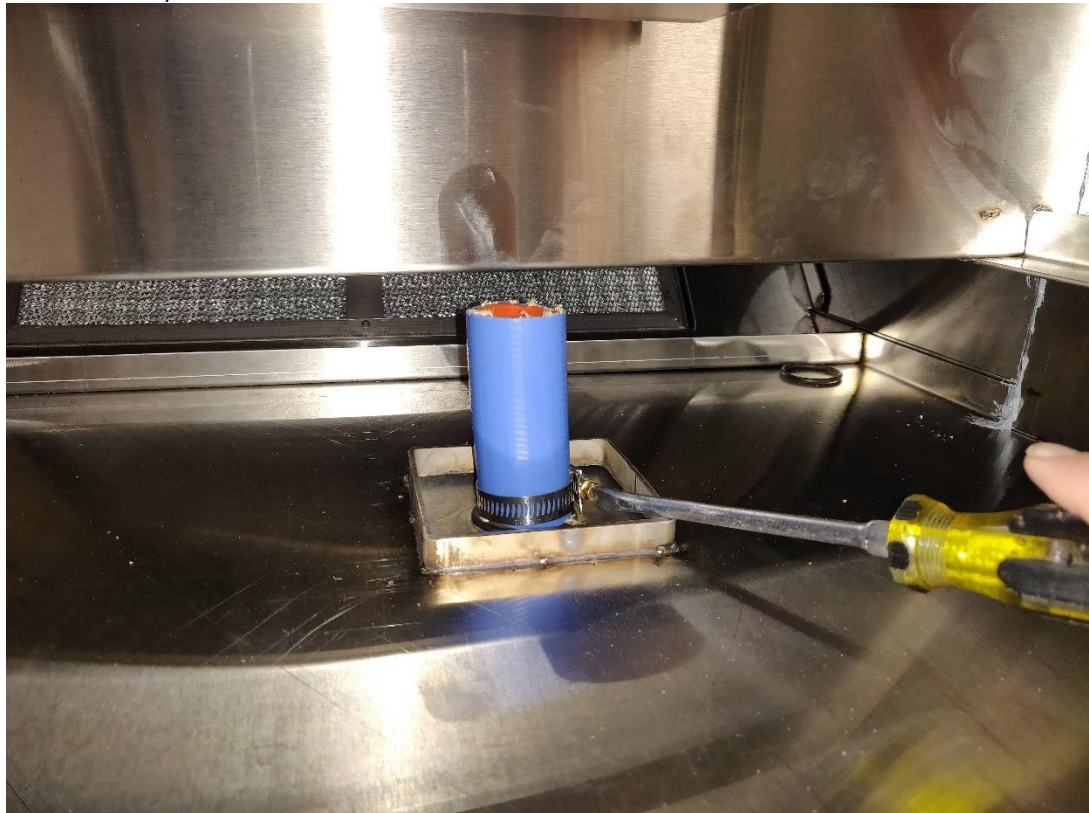




9. Put two band clamps on the rubber exhaust outlet extension tube and lightly tighten the clamps so they do not fall off.



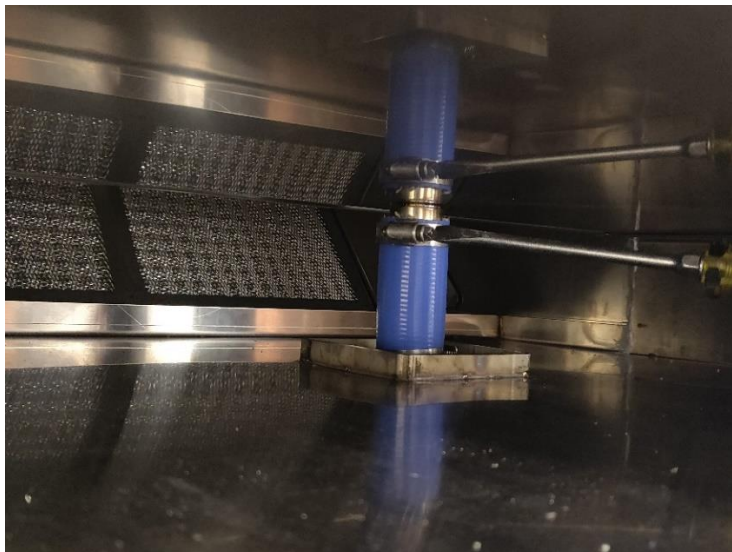
10. Slide the rubber exhaust outlet extension tube onto the outside of the exhaust outlet and tighten the hose clamp to seal the tube. The tube is located near the center of the oven.



11. Reinstall the Heat Exchanger (Two team members recommended). Make sure the tube is pointing down to match up with the Exhaust Outlet Extension Tube.



12. Slide the rubber exhaust outlet extension tube onto the tube on the bottom of the heat exchanger and tighten the hose clamp to seal the tube.

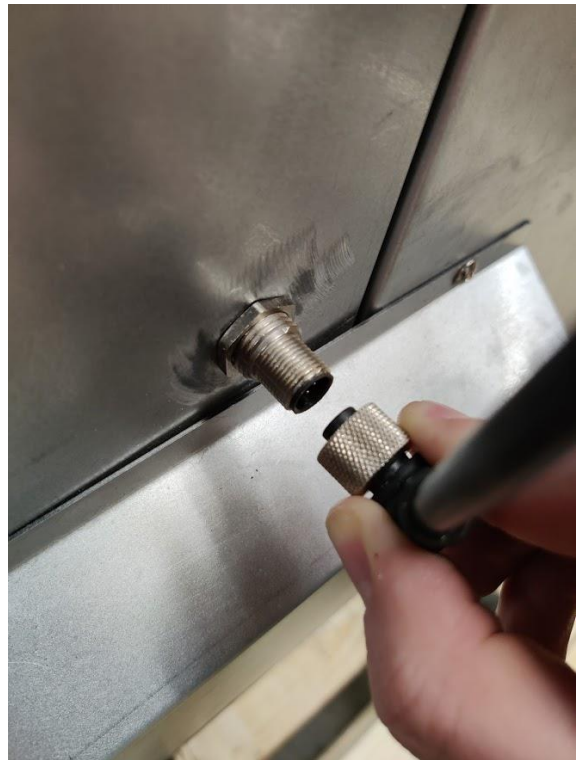


13. Reattach the Rear Access Panel by tightening 7 screws around the perimeter





14. Use the Communication Cable attached to the hood to connect to the oven.



15. Install the filter rack.





16. Install the trim angles.

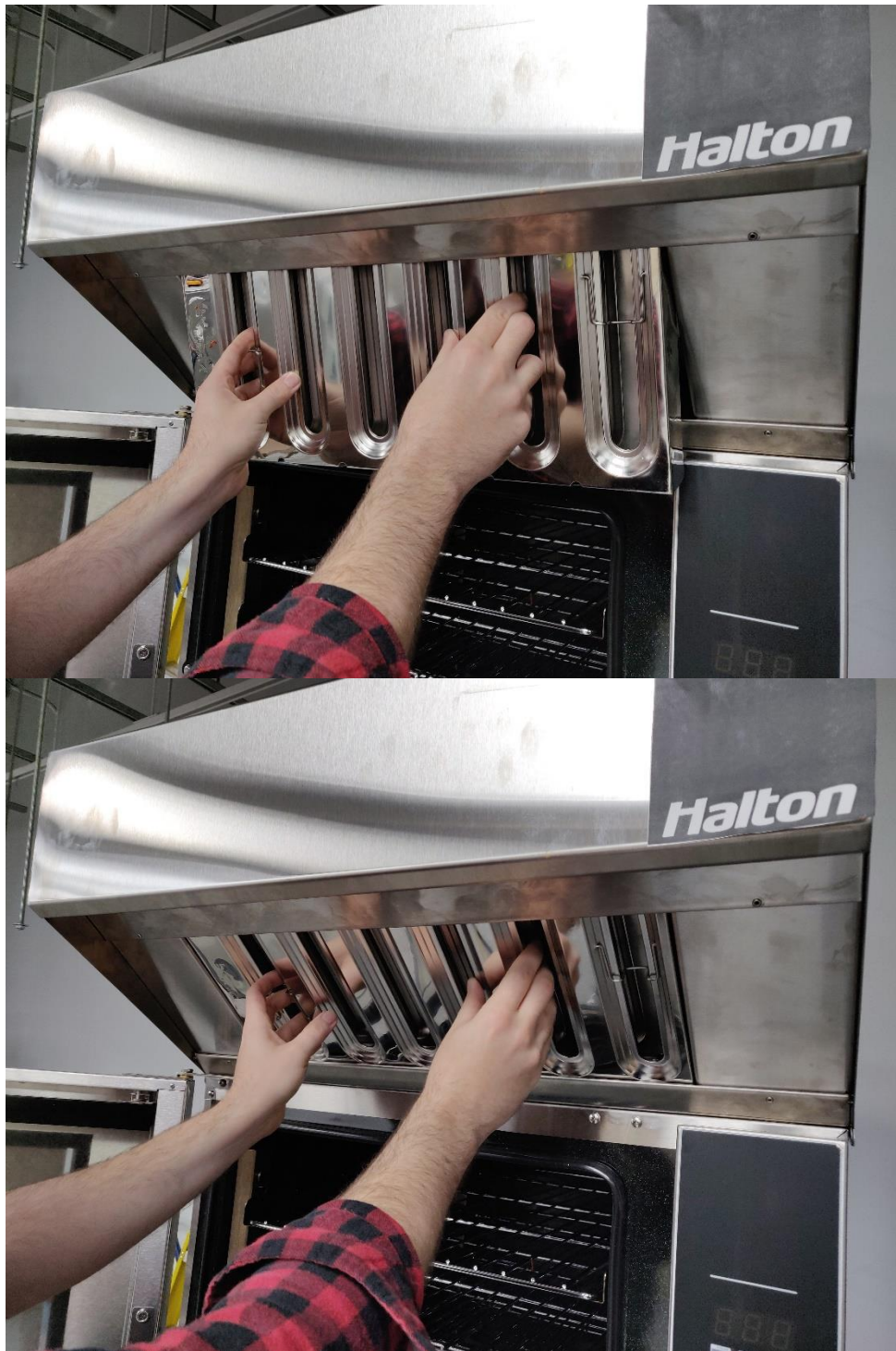


17. Install the mesh filter.





18. Install the baffle filter.



19. Install the charcoal filter. Secure the fan door by reinserting and tightening the screw across the top flange.



20. Ensure all access panels are installed on the hood and on the oven and plug in the hood to a mains supply socket.
21. If the oven has been installed and commissioned per the manufacturer's instructions, turn on the oven by pressing the on button on the front of the oven.
22. The hood should now be communicating with the oven and ready for operation.

If questions or complications arise during the installation or operation of the VH Series Hoods that cannot be solved using the instructions, please contact your Halton Company representative.

**Halton Company**  
**101 Industrial Dr**  
**Scottsville, KY 42124**  
**Toll Free: 1-800-4Halton**

## Installation Instructions – VHIK Install Kits

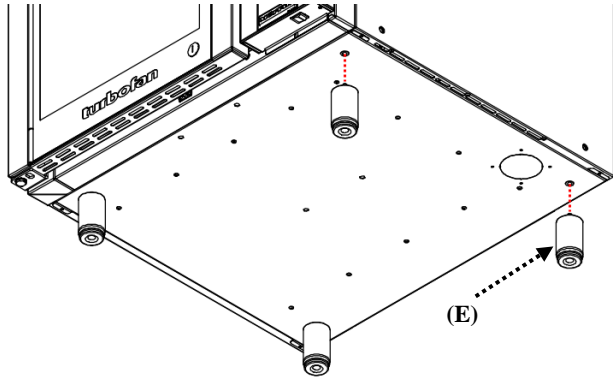
VHIK31/32/33/35



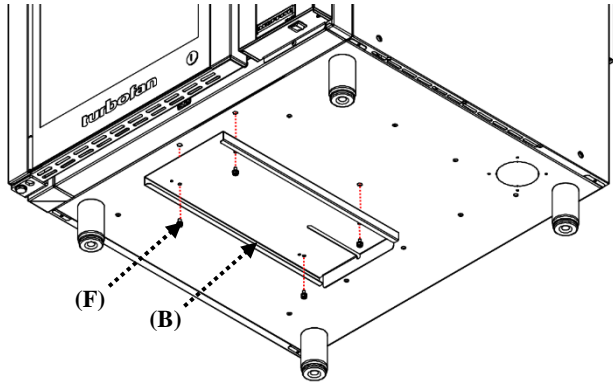
### Caution

**SERVICE WORK ONLY TO BE CARRIED OUT BY QUALIFIED PERSONS**  
**Always turn 'Off' electrical power at the mains supply before commencing**

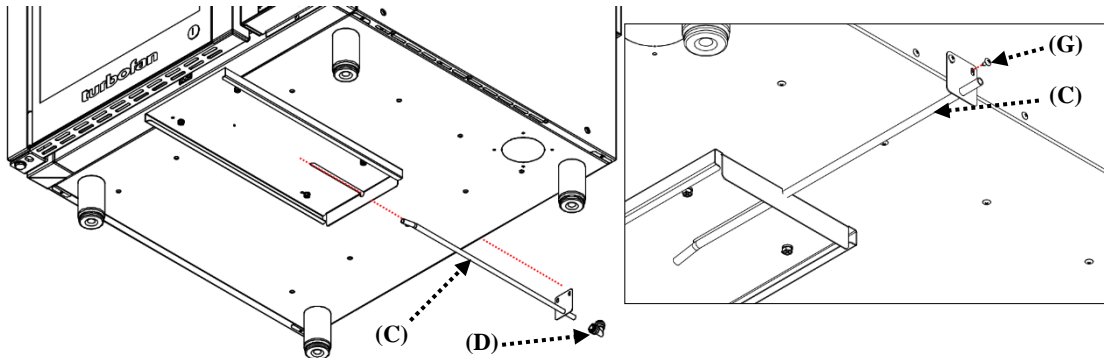
1. Unpack and check that the kit includes the correct parts and quantities.
2. **E32 / E33 / E35 Ovens Only:** Fit the 100mm Adjustable Legs **(E)** supplied in the Kit to the Oven. Discard the smaller 75mm Adjustable Legs supplied with the Oven.  
**E31D Only:** Fit the 75mm Adjustable Legs supplied with the Oven.



3. Securely screw the Condensate Pan Runner Plate **(B)** to the 4 holes in the bottom of the Oven using the supplied 8x3/8" Screws **(F)**.



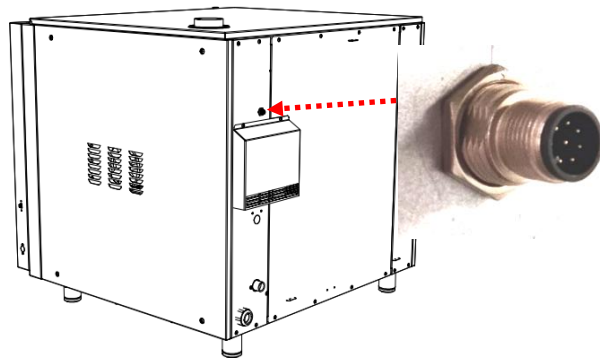
4. Fit the Stainless Steel Drain Tube **(C)** into the Condensate Pan Runner Plate and Screw to the rear of the Oven using the supplied 8x3/8" Screws.



5. Fit the Pan (A) into the Pan Runner to check it slides freely and doesn't hit the Drain Tube Wand (C).

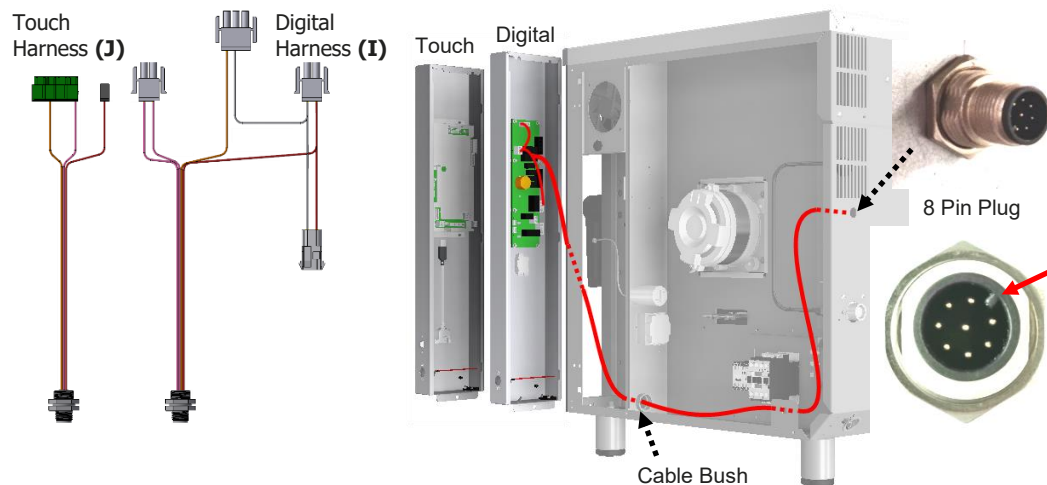


**Fit the Communication Harness into the Oven**  
**For E35 check communication Harness is profited**



**For E31/E32/E33 Ovens Only.**

6. Identify the Controller type, Digital or Touch Screen, to select the correct Communication Harness to wire into Oven.
7. Remove side panel.
8. Feed the 8 Pin Plug through the Cable Bush in the Oven Heat Block Plate and fix to the Oven Back Panel, tightening the Nut from the outside.
9. Remove the Control Panel and fit the Hood Harness plugs to the Control Board



10. Digital Hood Harness plug in points a, b & c

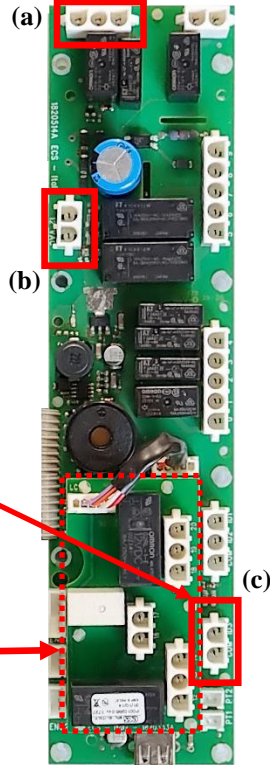
Fit the 3-Way Harness Plug to the Hood Power Socket **(a)**

**12Vac Input (b)**

- a. Unplug the 2-Way Plug with Yellow wires from the board and fit into the Hood Harness socket.
- b. Fit the Hood Harness 2-Way Plug with Yellow wires into the 12V Input Socket on the Board.

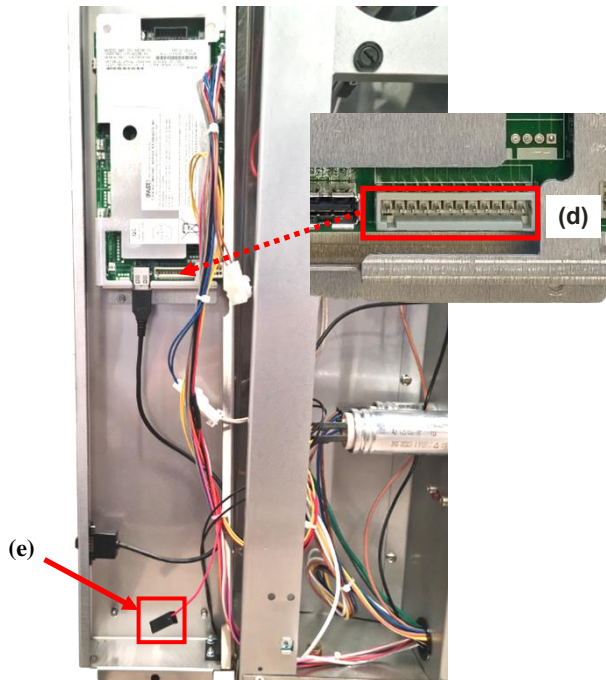
Fit the 2-Way Harness Plug to the COM ID3 Socket **(c)**.  
**Do not plug the 2-Way Plug with Yellow wires into Socket (c)**

2 Speed Fan Digital Controller Shown.  
The 1 Speed Fan Digital Controller does not have the additional relay board.



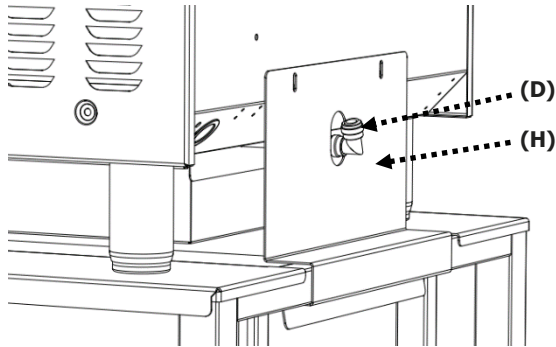
Touch Hood Harness plug in points d & e

11. Fit the Hood Harness 12-Way Plug into the Control Board Socket **(d)**.
12. Fit the Hood Harness Single Terminated Wire to the Oven Control Harness Red 24v Insulated Terminal **(e)**.
13. Refit the Control Panel checking no wires are pinched between the Oven and the Control Panel.





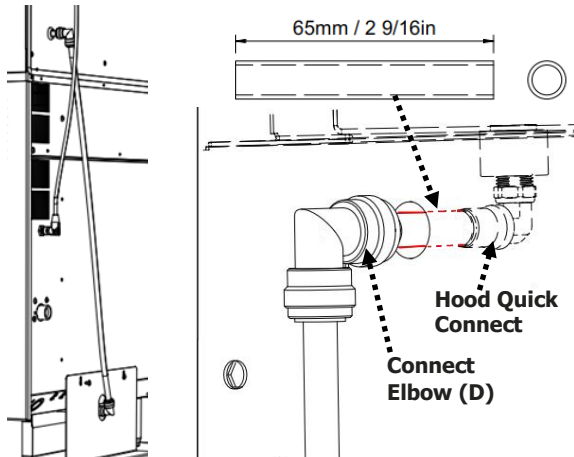
14. Refit the Side Panel.
15. If using with a Turbofan Stand, fit the Oven to the Stand and Hook the Rear Strapping Plate **(H)** over the rear rail of the Stand and screw the Strapping Plate to the Oven rear.



16. Fit the Hood to the Oven. Refer to Hood Installation page 25.

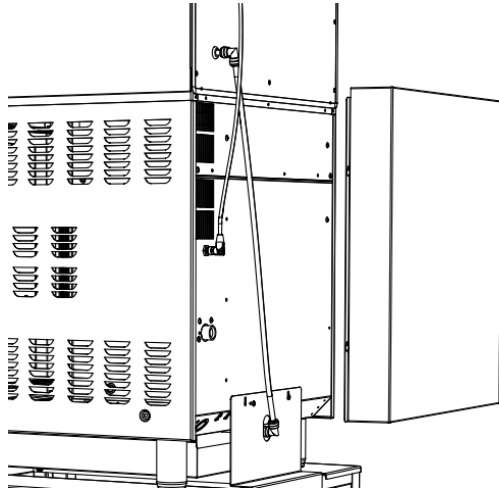


17. Connect the condensate drain tube supplied with the Hood
  - Cut a length of tube 65mm (2 9/16in) and insert into the Hood Quick Connect fitting. Insure the tube is pushed in all the way, about 17mm (43/64in)
  - Connect the Connector Elbow **(D)**
  - Cut a length of tube to run down to the Connector Elbow **(D)** on the Drain Tube Wand **(C)**. Allow a bit of slack, don't cut short.



18. Check all connections
  - Communication Cable from the Hood to the Oven.
  - Hood Condensate Drain Hose connected to Drain Tube Connector Elbow or other suitable drain.
  - Hood connected to Mains power supply.
  - Oven connected to Mains power supply.
19. After all connections have been made to the Oven and Hood, fit the Rear Shroud **(G)** to the Oven Rear. Loosen the screw.





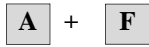
### **Oven Controller Configuration**

Hood function needs to be enabled on the Oven Controller for the Hood function. Identify the Controller type and follow the instructions

## Digital control

### Step 1. ENTER THE OPERATOR PARAMETER MODE.

Press buttons 'A' and 'F' together until 'PAS' shows on upper display.



'Temperature' Display will show 'PAS'.



The 'Time' Display will flash.



### Step 2. SET PASSWORD.

Rotate 'Timer Control' to enter password; (321).



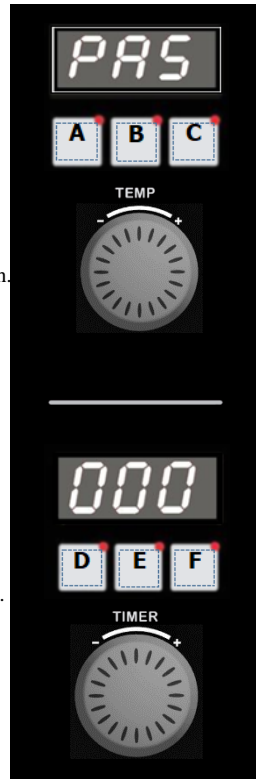
Press button 'E' to confirm password.



'Temperature' Display will show current Parameter Code.



'Time' Display will show current parameter value.



### Step 3. SETTING THE PARAMETERS

Rotate 'Timer Control' to scroll to parameter P36.



Press button 'E' to confirm parameter. 'Time' display will flash.



While 'Time' display is flashing, Rotate 'Timer Control' to select value 1.



Press 'E' button to confirm value. 'Time' display will stop flashing.



### STEP 4. EXITING THE PARAMETER MODE.

Press button 'D', to return to 'Stand-By' mode.



Note 'Hod' Error may display if the Hood is not turned on. Turn on power to the Hood

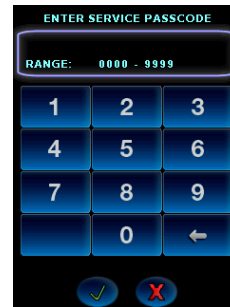


## Touch control

### ENTER THE SERVICE MODE

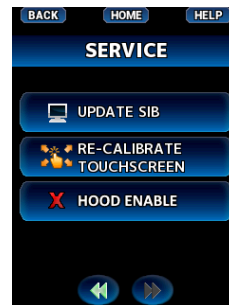


Press SERVICE



Enter Password: 4600

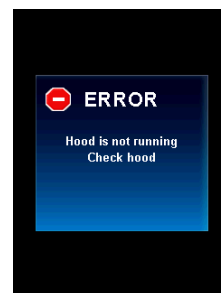
Press for next SERVICE screen, press until the last SERVICE screen is displayed



Press HOOD ENABLE to toggle

HOOD ENABLED  
 HOOD DISABLED

Press HOME to exit SERVICE screen



Note 'Hood' Error may display if the Hood is not turned on. Turn on power to the Hood

## Troubleshooting Guide

Problem	Possible Cause	Remedy
Hood Fan not running	Hood not plugged into Mains power supply Hood fuse blown Fan or Hood Control fault	Check plugged into the mains supply and Call for service Call for service
Fan does not run at Hi speed	No signal from Oven to Hood <ul style="list-style-type: none"> <li>• Oven Controller Hood function not enabled</li> <li>• Hood Control fault</li> </ul>	Check the Oven Controller has the Hood function enabled, Call service Call for service
Fan keeps running at Hi speed	Hood Control fault	Call for service
Oven displays Hood error	Hood power switch not 'On' Commination cable not fitted to the Oven	Switch Hood On Check the Hood commination cable is fitted to the Oven, Call for service

### Exhaust Fan Trouble Shooting

#### Tools Required:

1. Phillips Screwdriver
2. Voltmeter capable of measuring dc voltage, and capacitance
3. Small ladder or step stool
4. Hood Wiring Diagram

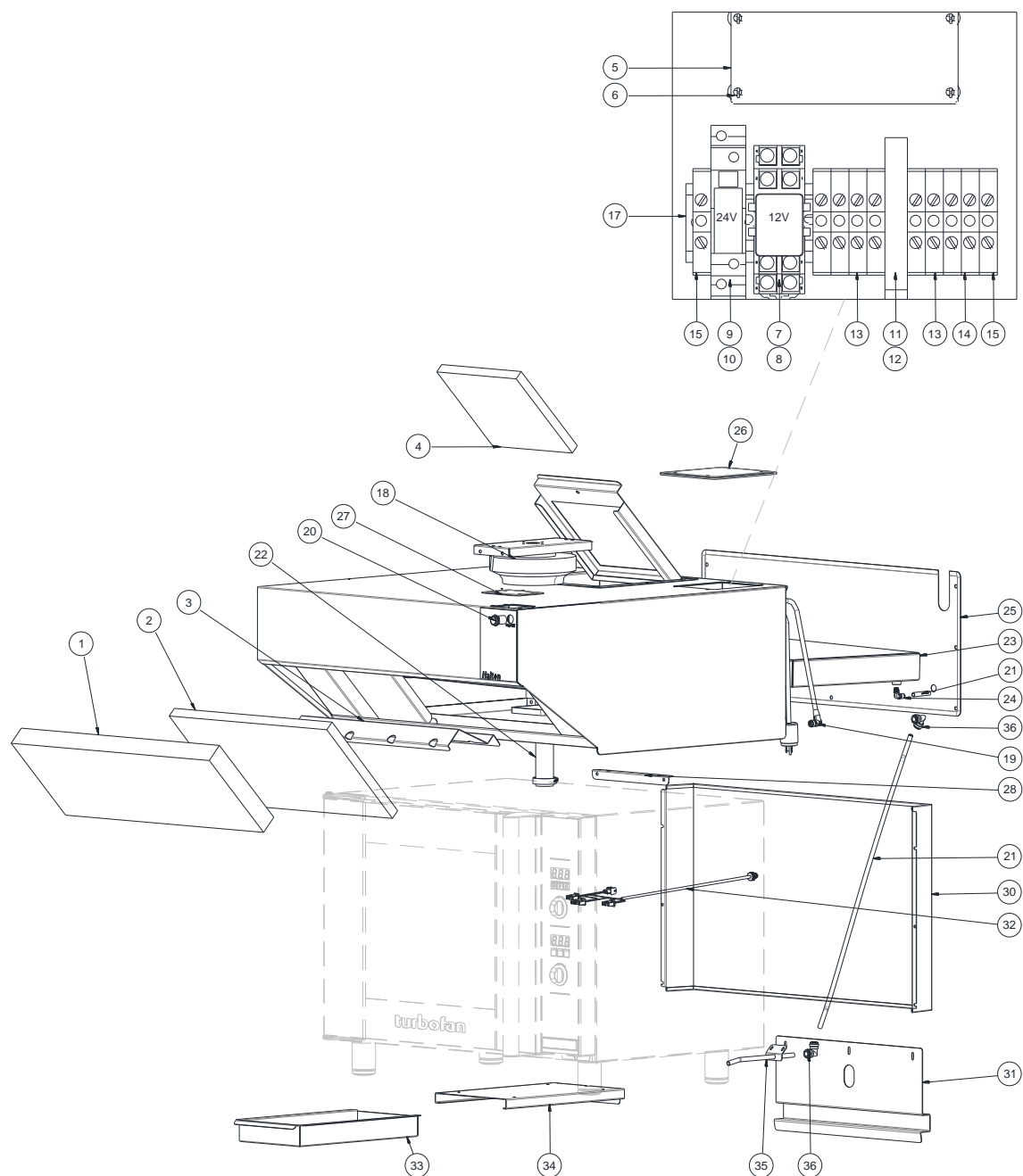
#### Instructions:

1. Turn on the hood power switch and wait at least 20 seconds to allow the fan to ramp up.
2. Carefully open the fan/filter access door and visibly and audibly inspect if the fan is running
3. Become familiar with the wiring diagram, focusing on the sections that carry mains supply voltage.
4. Use the Phillips screwdriver to remove the screws and open the control panel access door on top of the hood. Use caution when inspecting the inside of this box, as there is live high voltage. Trouble shooting must be completed with the unit powered.
5. With a Voltmeter check to be sure mains supply voltage is at output side of the fuse. If no voltage is present replace fuse. Do this by placing the positive (red) lead of the multimeter on the bottom screw of the fuse block terminal (side facing rear of oven) and the COM (black) lead of the multimeter on the terminal labeled N (neutral).

Please contact Halton Company for additional troubleshooting.

## Replacement Parts

### VH31 – VHIK31

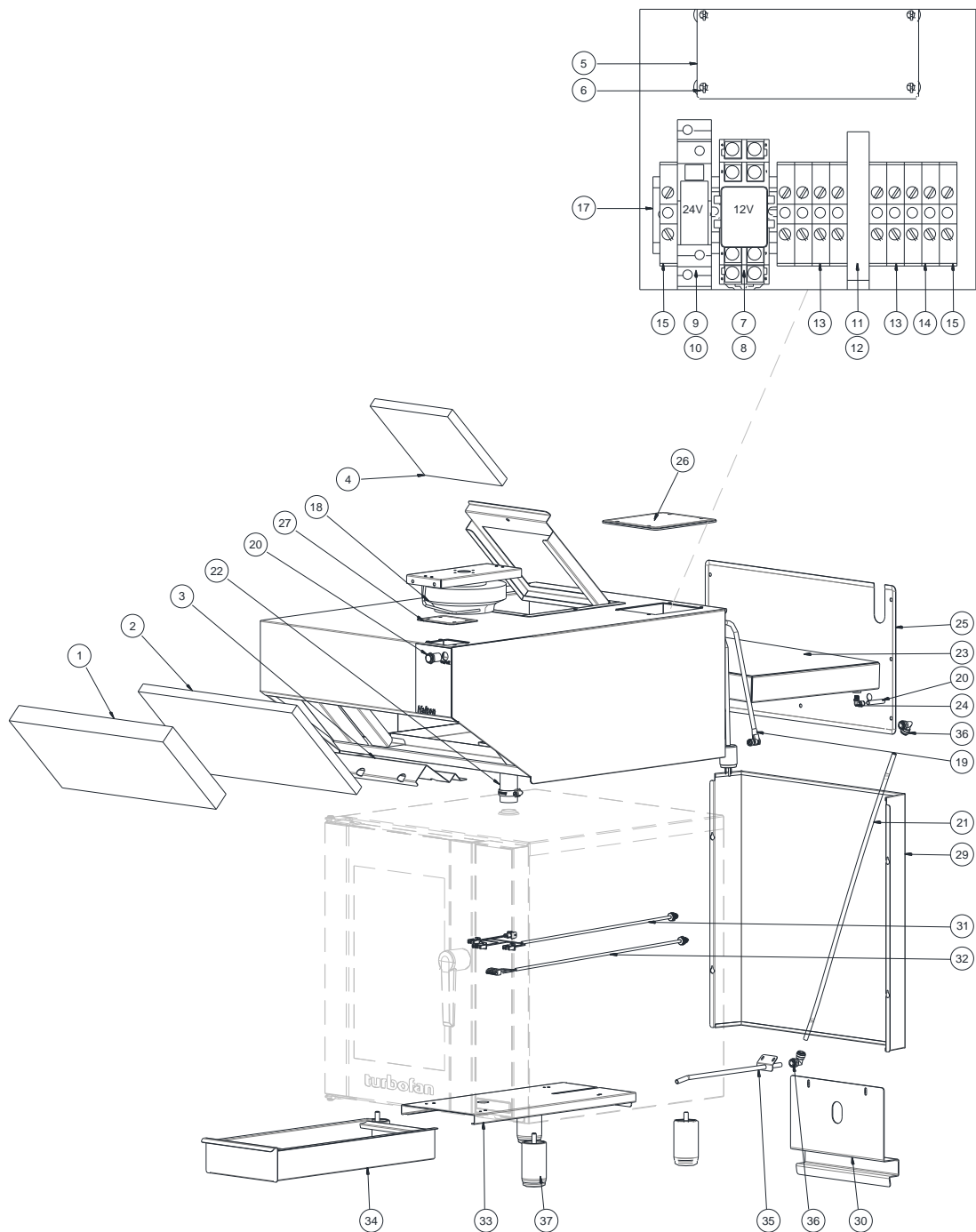


Item	Part Description	Part Number		
		Halton	Moffat	VH31
1	GREASE BAFFLE 10"X25" VH31	10143	H10143	1
2	MESH FILTER 12"X20" VH31/32/33/35	10483	H10483	1
3	FILTER SUPPORT VH31			1
4	CHARCOAL FILTER 10"X10"X1" VH31/32/33	11715	H11715	1
5	FAN SPEED CONTROL PCB BOARD	11800	H11800	1
6	NATURAL(WHITE) NYLON STAND OFF	10634		4
7	RELAY 12VAC 15A	12568	H12568	1
8	RELAY SOCKET 8 POSITION DIN RAIL	12673	H12673	1
9	RELAY 24VDC 5A	12569	H12569	1
10	RELAY SOCKET 8 POSITION AB	12570	H12570	1
11	FUSE HOLDER	10950	H10950	1
12	FUSE 3 AMP	10951	H10951	1
13	TERMINAL BLOCK AB	10473		7
14	GROUNDING TERMINAL BLOCK Y/G AB	12315		1
15	TERMINAL BLOCK END CLAMP AB	10432		1
16	TERMINAL BLOCK END BARRIER AB	10431		1
17	DIN RAIL 35MM	10469		1
18	190mm IMPELLER FAN <b>200-240V 50/60HZ</b>	12623	H12623	1
	190mm IMPELLER FAN <b>100-130V 50/60HZ</b>	12042	H12042	
19	M12 PANEL MOUNT CONNECTOR CABLE	12573	H12573	1
20	PUSH BUTTON SWITCH WHITE <b>220V</b>	12628	H12628	1
	PUSH BUTTON SWITCH WHITE <b>120V</b>	12574	H12574	
21	CONDENSATE TUBE 3/8" OD X 6FT (1.83M)	12564	H12564	1
22	OVEN VENT CONNECTION HOSE 1-1/4" ID	12559	H12559	1
23	HEAT EXCHANGER VH31			1
24	HEAT EXCHANGER ELBOW PUSH FIT			1
25	HOOD REAR COVER VH31			1
26	ELECTRICAL BOX COVER			1
27	POWER SWITCH COVER			1
28	HOOD MOUNTING BRACKET VH31			1
29	VENTLESS HOOD VH31 INSTALLATION KIT	-	VHIK31	1
30	REAR SHROUD E31	-	245658	1
31	STRAPPING PLATE E31	-	245660	1
32	HOOD CONNECTION HARNESS DIGITAL	-	245679	1
33	CONDENSATE PAN WA VHIK31	-	246445	1
34	CONDENSATE PAN SUPPORT E31	-	246463	1
35	DRAIN TUBE WA VHIK 31/33	-	246756	1
36	CONNECTOR PUSH-FIT ELBOW 3/8"-3/8"	-	246762	2



Item	Part Description	Part Number		VH32
		Halton	Moffat	
1	GREASE BAFFLE 10"X20" VH32/33	11242	H11242	1
2	MESH FILTER 12"X20" VH31/32/33/35	10483	H10483	1
3	FILTER SUPPORT VH32			1
4	CHARCOAL FILTER 10"X10"X1" VH31/32/33	11715	H11715	1
5	FAN SPEED CONTROL PCB BOARD	11800	H11800	1
6	NATURAL(WHITE) NYLON STAND OFF	10634		4
7	RELAY 12VAC 15A	12568	H12568	1
8	RELAY SOCKET 8 POSITION DIN RAIL	12673	H12673	1
9	RELAY 24VDC 5A	12569	H12569	1
10	RELAY SOCKET 8 POSITION AB	12570	H12570	1
11	FUSE HOLDER	10950	H10950	1
12	FUSE 3 AMP	10951	H10951	1
13	TERMINAL BLOCK AB	10473		7
14	GROUNDING TERMINAL BLOCK Y/G AB	12315		1
15	TERMINAL BLOCK END CLAMP AB	10432		1
16	TERMINAL BLOCK END BARRIER AB	10431		1
17	35MM DIN RAIL	10469		1
18	190mm IMPELLER FAN <b>200-240V 50/60HZ</b>	12623	H12623	1
	190mm IMPELLER FAN <b>100-130V 50/60HZ</b>	12042	H12042	
19	M12 PANEL MOUNT CONNECTOR CABLE	12573	H12573	1
20	PUSH BUTTON SWITCH WHITE <b>220V</b>	12628	H12628	1
	PUSH BUTTON SWITCH WHITE <b>120V</b>	12574	H12574	
21	CONDENSATE TUBE 3/8" OD X 6FT (1.83M)	12564	H12564	1
22	OVEN VENT CONNECTION HOSE 1-1/4" ID	12559	H12559	1
23	HEAT EXCHANGER VH32			1
24	HEAT EXCHANGER ELBOW PUSH FIT			1
25	HOOD REAR COVER VH32			1
26	ELECTRICAL BOX COVER			1
27	POWER SWITCH COVER			1
28	VENTLESS HOOD VH32 INSTALLATION KIT	-	VHIK32	1
29	REAR SHROUD E32	-	245659	1
30	STRAPPING PLATE E32		245661	1
31	HOOD CONNECTION HARNESS DIGITAL		245679	1
32	HOOD CONNECTION HARNESS TOUCH		245682	1
33	CONDENSATE PAN SUPPORT VHIK32/33/35		246340	1
34	CONDENSATE PAN WA VHIK32/33/35		246440	1
35	DRAIN TUBE WA VHIK32		246750	1
36	CONNECTOR PUSH-FIT ELBOW 3/8"-3/8"		246762	2
37	FOOT 100mm ADJ		233986	4

## VH33 – VHIK33

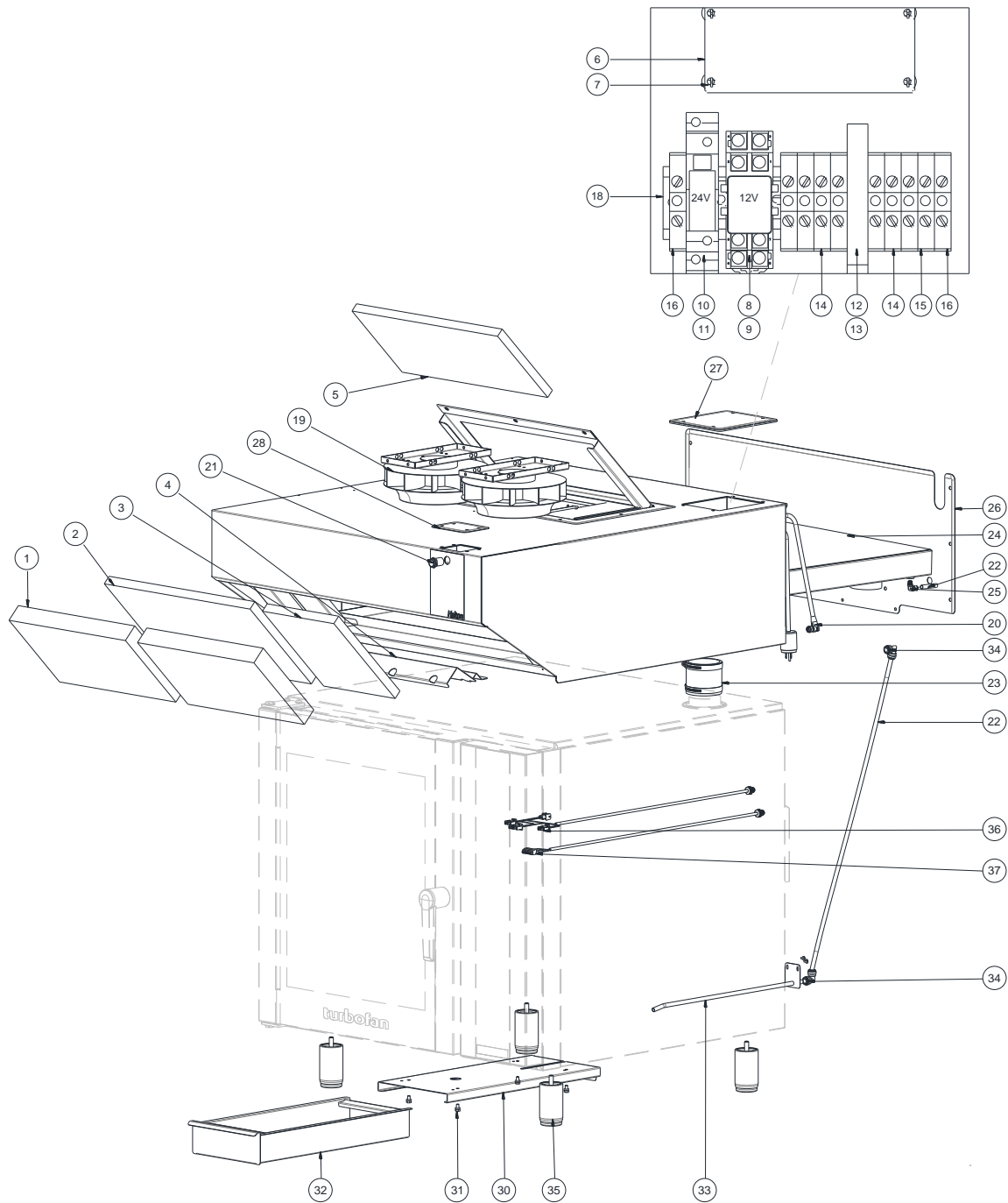




Item	Part Description	Part Number		VH33
		Halton	Moffat	
1	GREASE BAFFLE 10"X20" VH32/33	11242	H11242	1
2	MESH FILTER 12"X20" VH31/32/33/35	10483	H10483	1
3	FILTER SUPPORT VH33			1
4	CHARCOAL FILTER 10"X10"X1" VH31/32/33	11715	H11715	1
5	FAN SPEED CONTROL PCB BOARD	11800	H11800	1
6	NATURAL(WHITE) NYLON STAND OFF	10634		4
7	RELAY 12VAC 15A	12568	H12568	1
8	RELAY SOCKET 8 POSITION DIN RAIL	12673	H12673	1
9	RELAY 24VDC 5A	12569	H12569	1
10	RELAY SOCKET 8 POSITION AB	12570	H12570	1
11	FUSE HOLDER	10950	H10950	1
12	FUSE 3 AMP	10951	H10951	1
13	TERMINAL BLOCK AB	10473		7
14	GROUNDING TERMINAL BLOCK Y/G AB	12315		1
15	TERMINAL BLOCK END CLAMP AB	10432		1
16	TERMINAL BLOCK END BARRIER AB	10431		1
17	35MM DIN RAIL	10469		1
18	190mm IMPELLER FAN <b>200-240V 50/60HZ</b>	12623	H12623	1
	190mm IMPELLER FAN <b>100-130V 50/60HZ</b>	12042	H12042	
19	M12 PANEL MOUNT CONNECTOR CABLE	12573	H12573	1
20	PUSH BUTTON SWITCH WHITE <b>220V</b>	12628	H12628	1
	PUSH BUTTON SWITCH WHITE <b>120V</b>	12574	H12574	
21	CONDENSATE TUBE 3/8" OD X 6FT (1.83M)	12564	H12564	1
22	OVEN VENT CONNECTION HOSE 1-1/4" ID	12559	H12559	1
23	HEAT EXCHANGER VH33			1
24	HEAT EXCHANGER ELBOW PUSH FIT			1
25	HOOD REAR COVER VH33			1
26	ELECTRICAL BOX COVER			1
27	POWER SWITCH COVER			1
28	VENTLESS HOOD VH33 INSTALLATION KIT	-	VHIK33	1
29	REAR SHROUD E33	-	237346	1
30	STRAPPING PLATE E33	-	245662	1
31	HOOD CONNECTION HARNESS DIGITAL	-	245679	1
32	HOOD CONNECTION HARNESS TOUCH	-	245682	1
33	CONDENSATE PAN SUPPORT VHIK32/33/35	-	246340	1
34	CONDENSATE PAN WA VHIK32/33/35	-	246440	1
35	DRAIN TUBE WA VHIK 31/33	-	246756	1
36	CONNECTOR PUSH-FIT ELBOW 3/8"-3/8"	-	246762	2
37	FOOT 100mm ADJ	-	233986	4

**VH35-26 – VHIK35**

**VH35-30 – VHIK35**



Item	Part Description	Part Number		VH35-26 / VH35-30
		Halton	Moffat	
1	GREASE BAFFLE 10"X16" VH35	11241	H11241	2
2	MESH FILTER 12"X20" VH31/32/33/35	10483	H10483	1
3	MESH FILTER 12"X10" VH35	10489	H10489	1
4	FILTER SUPPORT VH32			1
5	CHARCOAL FILTER 10"X20"X1" VH35	11790	H11790	1
6	FAN SPEED CONTROL PCB BOARD	11800	H11800	1
7	NATURAL(WHITE) NYLON STAND OFF	10634		4
8	RELAY 12VAC 15A	12568	H12568	1
9	RELAY SOCKET 8 POSITION DIN RAIL	12673	H12673	1
10	RELAY 24VDC 5A	12569	H12569	1
11	RELAY SOCKET 8 POSITION AB	12570	H12570	1
12	FUSE HOLDER	10950	H10950	1
13	FUSE 3 AMP	10951	H10951	1
14	TERMINAL BLOCK AB	10473		7
15	GROUNDING TERMINAL BLOCK Y/G AB	12315		1
16	TERMINAL BLOCK END CLAMP AB	10432		1
17	TERMINAL BLOCK END BARRIER AB	10431		1
18	35MM DIN RAIL	10469		1
19	220mm IMPELLER FAN <b>200-240V 50/60HZ</b>	12624	H12624	2
	220mm IMPELLER FAN <b>100-130V 50/60HZ</b>	11787	H11787	
20	M12 PANEL MOUNT CONNECTOR CABLE	12573	H12573	1
21	PUSH BUTTON SWITCH WHITE <b>220V</b>	12628	H12628	1
	PUSH BUTTON SWITCH WHITE <b>120V</b>	12574	H12574	
22	CONDENSATE TUBE 3/8" OD X 6FT (1.83M)	12564	H12564	1
23	OVEN VENT CONNECTION HOSE 3" ID	12560	H12560	1
24	HEAT EXCHANGER VH35			1
25	HEAT EXCHANGER ELBOW PUSH FIT			1
26	HOOD REAR COVER VH35			1
27	ELECTRICAL BOX COVER			1
28	POWER SWITCH COVER			1
29	VENTLESS HOOD VH35 INSTALLATION KIT	-	VHIK35	1
30	CONDENSATE PAN SUPPORT VHIK32/33/35	-	246340	1
31	SCREW M6X12	-	748039	4
32	CONDENSATE PAN WA VHIK32/33/35	-	246440	1
33	DRAIN TUBE WA VHIK35	-	246732	1
34	CONNECTOR PUSH-FIT ELBOW 3/8"-3/8"	-	246762	2
35	FOOT 100mm ADJ	-	233986	4
36	HOOD CONNECTION HARNESS DIGITAL	-	245679	1
37	HOOD CONNECTION HARNESS TOUCH	-	245682	1

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## Maintenance

### Weekly Maintenance

Remove Baffle and Mesh Filter. Lift filters up out of the bottom track. Pull bottom of filter out and pull down. Spray filters with Sink Detergent Solution. Completely soak filters with Sink Detergent Solution. Wash filters in Sink. Rinse filters thoroughly in sink. Let filters air dry.

The VH Hood should be wiped with a soft cloth or sponge and soapy water or degreaser. Do not use harsh or abrasive cleaners on stainless steel surfaces. Turn off the hood before beginning. Wipe down exterior surfaces. Use a rag to remove interior moisture from all surfaces you can reach, using caution as some edges may be sharp. Replace Baffle and Mesh Filters. Slide top of filter into rack and push bottom of filter into track. Push down into track to seat filter.

While filters are out of the hood remove the drip tray that the filter bottoms sit in. Wipe grease out of the tray and wash using the same process as the filters. Allow the tray to dry and replace in the hood before reinstalling the filters.

### Quarterly Maintenance

The Charcoal Filter on top of the hood should be replaced quarterly. Over time the charcoal filter will become less effective at removing odors and smoke. Ensure that the hood is turned off and the exhaust fan is not running before proceeding. Remove the screw(s) securing the front of the filter access panel and slide the charcoal filter out. Slide in a new filter taking note of the airflow direction arrow shown on the side of the filter. Arrow should point up out of the hood. Re-secure filter access panel with thumb screw(s)

### Non-Routine Maintenance

#### Fuse Replacement

The 3A fuse may be replaced if necessary. The following steps will guide the repair technician through this process.

##### **Tools Required:**

1. Phillips screwdriver
2. 3mm Flat Screwdriver
3. Small ladder or stepstool
4. Hood Electrical Drawing

##### **Instructions:**

1. Disconnect the hood from the power source
2. Lift open the black fuse holder, allowing the top portion to swing up and away from the base
3. Replace the burnt fuse with a new one and close fuse holder
4. Reinstall the control panel access lid
5. Reconnect hood power source

## **Control Board Replacement**

The control board may be replaced if necessary. The following steps will guide the repair technician through this process.

### **Tools Required:**

1. Phillips screwdriver
2. 3mm Flat Screwdriver
3. Small ladder or stepstool
4. Hood Electrical Drawing

### **Instructions:**

1. Disconnect the hood from the power source
2. Use the Phillips screwdriver to remove the screws and open the control panel access door on top of the hood
3. Note the orientation of the control board in control box and on the wiring diagram
4. Unscrew the terminals with a #1 flathead screwdriver and remove the wires. White wire is under terminal "N", red wire is under terminal "115V or 230V". On the other side of the board blue is "GND", yellow is "PWM" and red is "10V".
5. Lift the control board off of the plastic standoffs by squeezing the top of the standoff gently.
6. Install the new control board by pressing it onto the standoffs and reconnect the wires to the terminals in the correct locations
7. Reinstall the control panel access lid
8. Reconnect hood power source

## **Fan(s) Replacement**

The exhaust fans may be replaced if necessary. The following steps will guide the repair technician through this process.

### **Tools Required:**

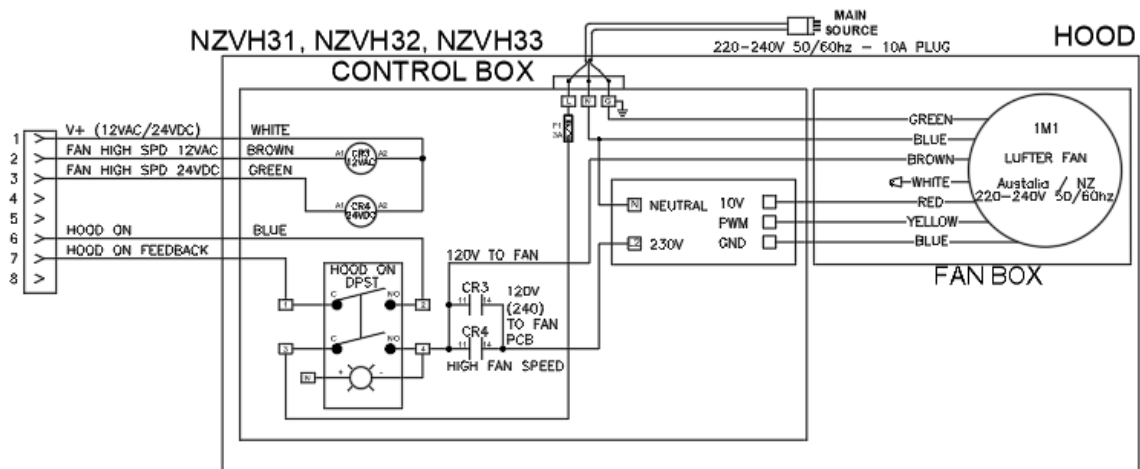
1. Phillips Screwdriver
2. #10 wrench or nut driver (Use M6 screw)
3. Hood Wiring Diagram
4. Scissors or wire cutters to remove zip ties
5. Plastic zip ties or wire ties
6. Small ladder or stepstool

### **Instructions:**

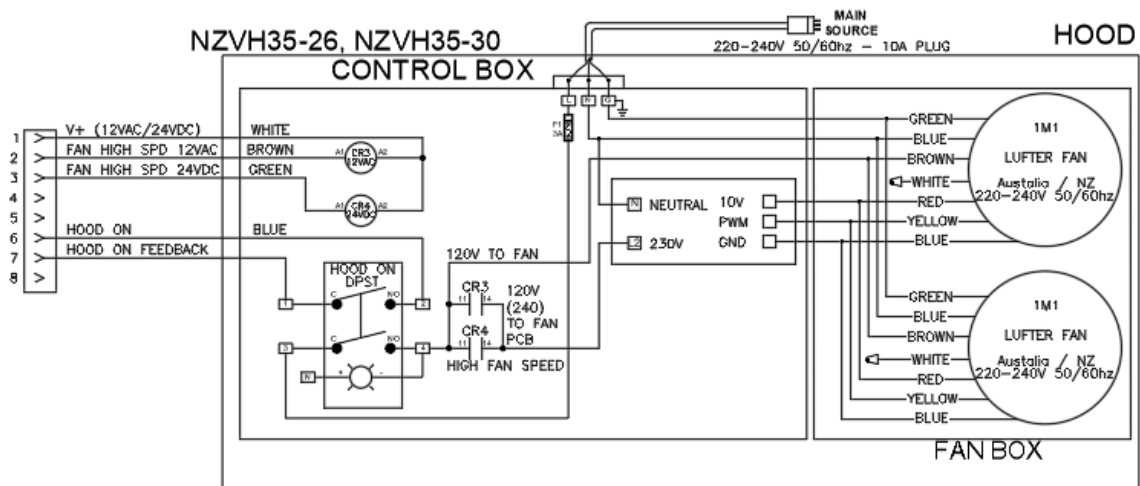
1. Disconnect the hood from the power source.
2. Use the Phillips screwdriver to remove the screws and open the fan/filter access door on top of the hood.
3. Lift the entire fan/filter box out from the hood.
4. Use caution to avoid putting strain on the conduit connecting the assembly to the control panel.
5. A junction box is located on the left side of the box when looking at the hood from the front. This side will need to be angled down to lift the box clear of the hood.
6. Use a Phillips screwdriver to remove the cover from the junction box on the side of the fan box.
7. Cut any plastic zip ties securing the wiring together.
8. Label the wires and use the wiring diagram describing which wires need to connect where.
9. Disconnect the wires going into the fan box.
10. Use the Phillips screwdriver to remove the screws on the side of the box securing the fan bracket.
11. Use the #10 wrench or nut driver to remove the bolts securing the fan to the fan bracket.
12. Attach the new fan to the bracket the bolts removed in the previous step.
13. Reinstall the fan bracket into the fan box.
14. Push the fan around with a finger to ensure that it is not rubbing and can spin freely.
15. Adjust as needed to ensure fan can spin freely.
16. Reconnect the fan wires inside the junction box per the wiring diagram.
17. Secure the wires with the zip ties.
18. Ensure all wires are inside the junction box and close junction box.
19. Hook the junction box under the edge of the hood in the opposite motion used to remove in step 4.
20. Re-secure fan box to hood
21. Reconnect hood to power source.

# Australia / NZ

## Single Fan



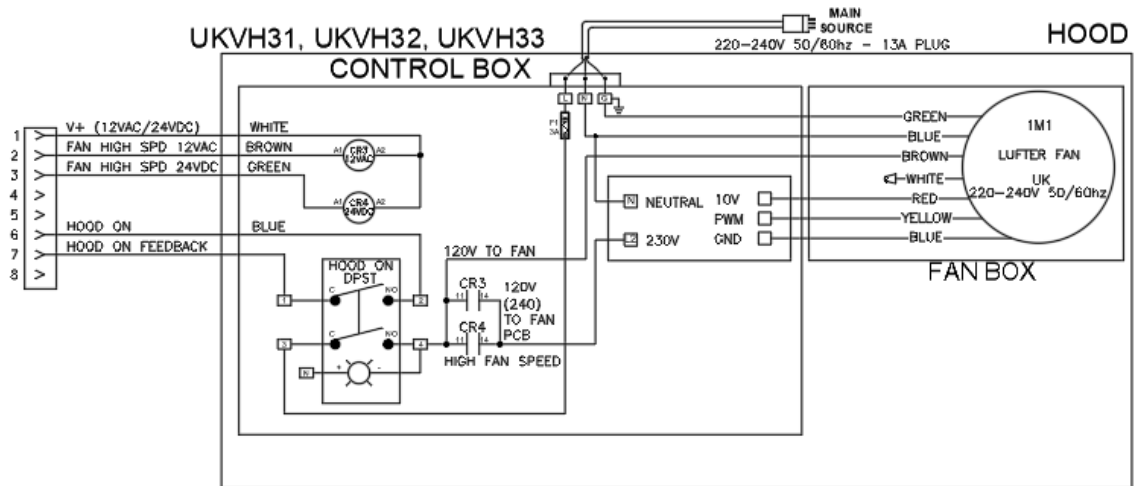
## Two Fan



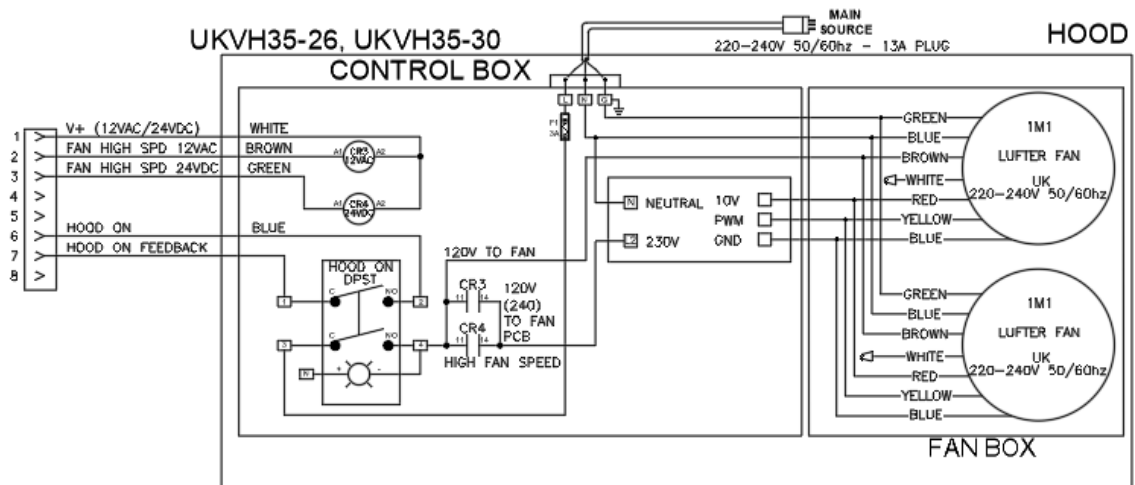


# UK

## Single Fan

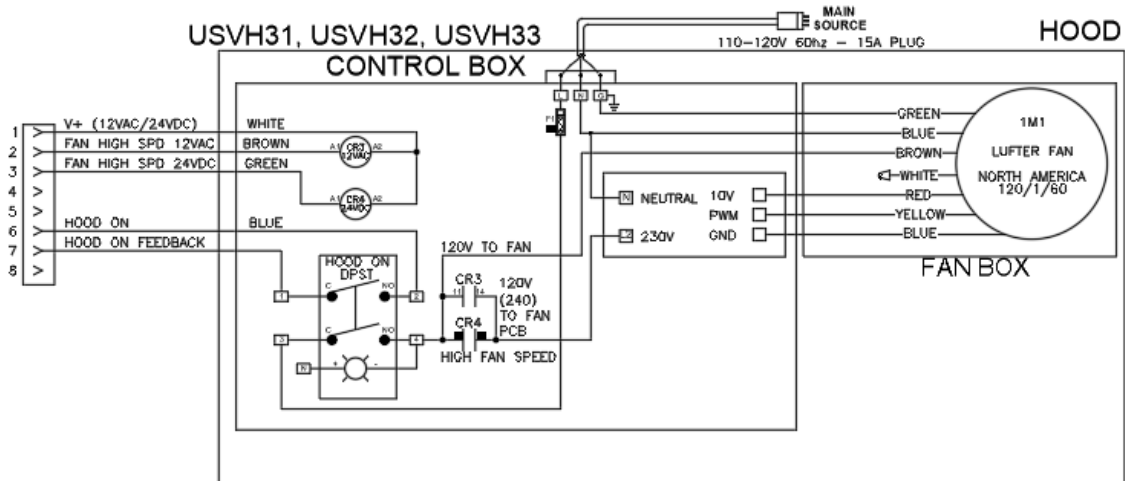


## Two Fan



# USA / CAN

## Single Fan



## Two Fan

