#### ENGLISH

FRENCH PG. 37



# INSTALLATION AND OPERATION MANUAL

#### SAFETY INFORMATION

## A WARNING

#### FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

#### - WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

#### - Installation and service must be performed by a qualified installer, service agency, or the supplier.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

#### **INSTALLER:**

Leave this manual with the appliance. **CONSUMER:** 

Retain this manual for future reference.

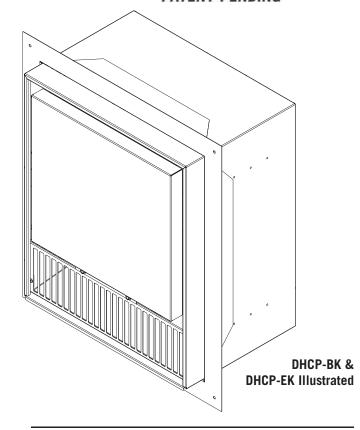
ENSURE TO ORDER CORRECT KITS. SEE INSIDE FOR DETAILS.

These installation instructions <u>MUST</u> be used in conjunction with the Vector<sup>™</sup>, Luxuria<sup>™</sup>, and Dynamic Heat Control<sup>™</sup> installation manuals.



Quality System Certified To





## FOR USE WITH VECTOR™ (with DHC™ installed) & LUXURIA™ MODELS ONLY

LV38N/P-1 / LV38N/P2-1 / LV50N/P-2 / LV50N/P2-2 / LV62N/P / LV62N/P2 / LV74N / LV74N2 LVX38N/P(-1) / LVX38N/P2(-1) / LVX50N/P(-1) / LVX50N/P2(-1) / LVX62N/P(-1) / LVX62N/P2(-1) / LVX74N/P(-1) / LVX74N/P2(-1)

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#### note:

The information throughout this manual is believed to be correct at the time of printing. Wolf Steel Ltd. reserves the right to change or modify any information within this manual at any time without notice. Changes, other than editorial, are denoted by a vertical line in the margin.

WARNING: This product can expose you to chemicals including chromium, which are known to the State of California to cause cancer, and chemicals including toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

## 

- Dynamic Heat Control<sup>™</sup> Plus (DHC<sup>™</sup> Plus) <u>CANNOT</u> be installed without Dynamic Heat Control<sup>™</sup>.
- DHC<sup>™</sup> Plus is ONLY compatible with Dynamic Heat Control<sup>™</sup> Installation Option #2 (front opening) or Installation Option #3 (rear opening).
- **DHC<sup>™</sup> Plus** <u>MUST</u> be installed with an air outlet opening or it will become a potential fire hazard.
- Installation must conform to local codes or, in the absence of local codes, the National Gas and Propane Installation Code CSA B149.1 in Canada, or the National Fuel Gas Code ANSI Z223.1 / NFPA 54 in the United States.
- An appliance may use only one **DHC<sup>™</sup> Plus** blower kit.
- We recommend installing **DHC™ Plus** during installation of the appliance **BEFORE** appliance venting and gas are installed.
- Installation <u>MUST</u> be performed by a qualified installer who has completed the Dynamic Heat Control<sup>™</sup> System Certification course via Napoleon's online education portal NEducation.
- Ensure the appliance is completely cool before starting installation.
- To avoid danger of suffocation, keep the packaging bag away from babies and children. Do not use in cribs, beds, carriages, or play pens. This bag is not a toy. Knot before throwing away.

### 1.1 introduction

**Dynamic Heat Control™ Plus (DHC™ Plus)** is a system for managing the heat produced by the appliance at and around the appliance. The purpose of **DHC™ Plus** is to move heat away from the appliance and to primarily distribute some or all of it to the exterior. Where duct lengths are greater than 5 feet or when passing through uninsulated spaces such as an attic, it is recommended that the duct be insulated.

## Whilst it is practically possible to use DHC<sup>™</sup> Plus to move heat to another location within the home, please consider the following points carefully during the planning phase:

- The sound of the **DHC<sup>™</sup> Plus** blower is similar to a bathroom fan (see "sound considerations" section).
- The **DHC<sup>™</sup> Plus** system should not be used in small enclosed rooms with low ceilings, such as a small bathroom, as the room will be quickly pressurized and the heat transfer from the fireplace will be reduced / eliminated.
- The **DHC<sup>™</sup> Plus** moves almost all the useable heat. If the room is small in volume, it can quickly become very warm. You may move unwanted heat from one room to another, which may not satisfy the customer. Therefore, carefully consider the amount of heat and the size of the room where it is being transferred to before beginning installation.



• Where the **DHC<sup>™</sup> Plus** system is used to transfer heat to another room, it is recommended to install a local on/off switch so that the heat transfer can be disabled from the remote location if desired. The **DHC<sup>™</sup> Plus** system does not include a remote room thermostat.

### 1.2 installation options

There are three installation options available for **DHC™ Plus**, each with its own advantages:

#### Exterior Installation

**DHC<sup>™</sup> Plus** is installed on the exterior wall of the appliance enclosure. It does not require venting, ducting, or a bulkhead, and is therefore the simplest installation option. However, careful consideration should be made for the sound of the **DHC<sup>™</sup> Plus** blower. See "sound considerations" and "exterior installation" sections for details.

#### **Remote Exterior Installation**

**DHC<sup>™</sup> Plus** is installed remotely from the appliance enclosure. Though it requires venting and a bulkhead, the increased distance from the blower ensures sounds from air flow will be significantly less apparent. See "sound considerations" and "remote exterior installation" sections for details.

#### **Remote Inline Installation**

DHC<sup>™</sup> Plus is installed inline anywhere between the appliance enclosure and the hot air exhaust assembly. Similarly to remote exterior installations, this installation requires venting and a bulkhead, with the addition of ducting. This installation offers the most opportunity for unique configurations, including through multiples rooms or floor levels. See "remote inline installation" section for details. W415-1789/D/10.10.19

The table below lists kit requirements for each installation option. Please read it carefully.

Installation Type	DHCP-BK	DHCP-EK	DHCP-HK
Exterior	$\checkmark$	✓	N/A
Remote Exterior	✓	✓	N/A
Remote Inline	$\checkmark$	N/A	✓

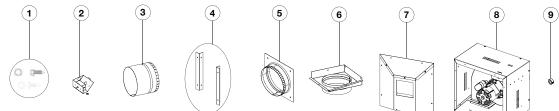
### 1.3 DHC<sup>™</sup> Plus kit overview

	Included in each kit:	
DHCP-BK	DHCP-EK	DHCP-HK
<ul> <li>1 x blower housing assembly</li> <li>1 x inline cover assembly</li> <li>1 x air damper assembly</li> <li>1 x on/off switch / housing</li> <li>1 x collar connector assembly</li> <li>1 x collar plate assembly</li> <li>2 x mounting bracket</li> <li>1 x bushing</li> <li>13 x #9x1/2" screws</li> <li>1 x #8x1/2" screws</li> </ul>	<ul> <li>1 x exterior housing assembly</li> <li>1 x wall flashing</li> <li>1 x decorative cover</li> <li>12 x #9x1/2" screws</li> </ul>	1 x hot air exhaust assembly 1 x wall flashing 4 x #9x1/2" screws 2 x #10x1-1/2" screws

These complete kits always comprise of up to 2 boxes. Please read carefully and ensure to order correct application kits for your unique installation.

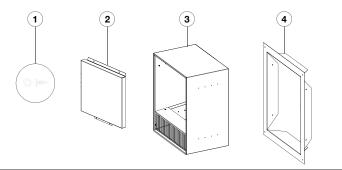
Though not supplied, armoured cable is required for the wiring of the **DHC™ Plus** (see "electrical information" section for more information). Therefore, please ensure you have enough armoured cable on-hand to complete your unique installation.

### 1.3.1 DHCP-BK



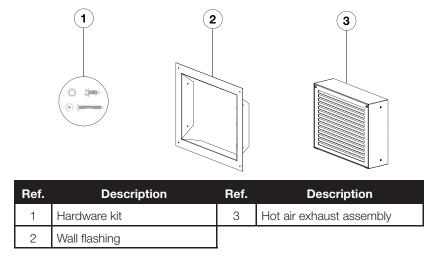
Ref.	Description	Ref.	Description
1	Hardware kit	5	Collar plate assembly
2	On/off switch (with housing and nut)	6	Collar connector assembly
3	Air damper assembly	7	Inline cover assembly
4	Mounting brackets (x2)	8	Blower housing assembly
		9	Bushing

### 1.5.1 DHCP-EK



Ref.	Description	Ref.	Description
1	Hardware kit	3	Exterior housing assembly
2	Decorative cover	4	Wall flashing

#### 1.3.2 DHCP-HK



#### 1.4 sound considerations

The **DHC™ Plus** system uses a high performance fan to move unwanted heat outside. Similar to a bathroom fan or stove range hood, the use of a fan to move air results in sound.

#### note:

Consider blower kit location carefully as the air flow sound from the blower is more apparent the closer it is to the appliance and customer. This is particularly important if using the fan to transfer heat inside a home.

### 1.5 venting & ducting

Depending on the installation type, **DHC<sup>™</sup> Plus** requires the use of ducting that is <u>not supplied</u>:

#### **Exterior Installation**

• N/A

#### **Remote Exterior Installation**

• 6" steel rigid venting between appliance enclosure and DHC™ Plus blower kit

#### **Remote Inline Installation**

- 6" steel ducting between appliance enclosure and DHC™ Plus blower kit
- 6" steel rigid venting between DHC™ Plus blower kit and hot air exhaust assembly

#### note:

Always check local codes before installing the DHC™ Plus system.

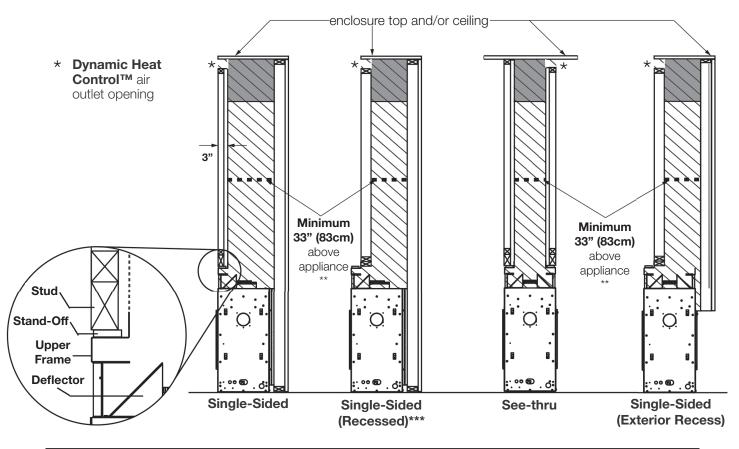
### 1.6 placement in enclosure

## 

- Do NOT cover or place any items in the **Dynamic Heat Control™** air outlet. Failure to comply with these instructions could create a fire hazard.
- Ensure air flow within the air passage is not restricted in any way with the exception of an approved appliance vent system or the **DHC<sup>™</sup> Plus** system.
- The DHC<sup>™</sup> Plus system draws air from the appliance enclosure and should be mounted in the enclosure above the appliance. NEVER make a direct connection to the appliance itself.

Recommended DHC<sup>™</sup> Plus collar plate assembly installation zone - within the top 12" (30.5cm) of the appliance enclosure.

No materials of any type permitted in this area with the exception of an approved appliance vent system or the **DHC™ Plus** system.



#### important:

\*\* **DHC™ Plus** collar plate assembly must be installed above the appliance vent shield (not illustrated) (minimum 33" (83cm) from the top of the appliance).

\*\*\* Restrictions also apply to see-thru when one or more recess is used. See your appliance manual for details.

Air flow in the hatched areas **must** not be restricted in any way with the exception of an approved appliance vent system or the **DHC™ Plus** system. No other items are allowed in this area.

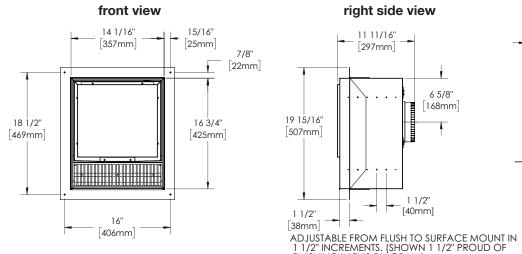
See your appliance manual for more information about clearance to combusible materials. No combustible materials allowed in the hatched areas or the space between studs (i.e. no wiring, conduits, electrical bores, combustible framing members, etc.).

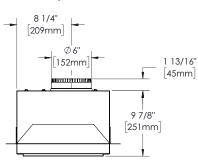
top view

#### dimensions 1.7

#### 1.7.1 **DHCP-BK & DHCP-EK**

#### FOR EXTERIOR & REMOTE EXTERIOR INSTALLATIONS ONLY



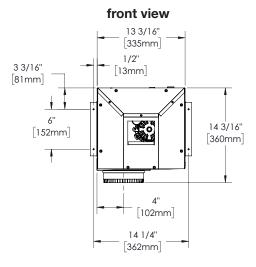


ADJUSTABLE FROM FLUSH TO SURFACE MOUNT IN 1 1/2" INCREMENTS. (SHOWN 1 1/2" PROUD OF FINISHING IN THIS DIAGRAM)

### **1.7.2 DHCP-BK & DHCP-HK**

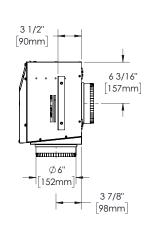
FOR REMOTE INLINE INSTALLATIONS ONLY

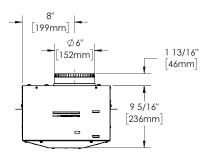
**DHCP-BK** 



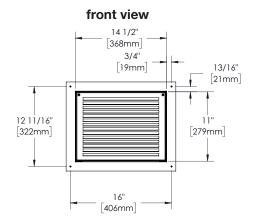
right side view

top view

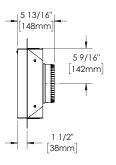




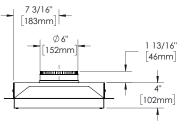
**DHCP-HK** 



right side view



top view



## 2.0 minimum ducting requirements

#### 2.1 DHC<sup>™</sup> Plus duct outlet

	CD M-	S.P.
E G G G G		

	INSTALLATIONS		
	CANADA	U.S.A.	
А	12" (30.5cm)	12" (30.5cm)	Clearance above grade, veranda porch, deck or balcony.
в	12" (30.5cm)*	12" (30.5cm)*	Clearance to windows.
с	12" (30.5cm)**	12" (30.5cm)**	Vertical clearance to ventilated soffits located above the terminal within a horizontal distance of 2' (0.6m) from the center line of the terminal.
D	12" (30.5cm)**	12" (30.5cm)**	Clearance to unventilated soffit.
E	0" (0mm)	0" (0mm)	Clearance to an outside corner wall.
F	0" (0mm)	0" (0mm)	Clearance to an inside <b>non</b> -combustible corner wall or protruding <b>non</b> -combustible obstructions (chimney, etc.).
	2" (51mm)	2" (51mm)	Clearance to an inside combustible corner wall or protruding combustible obstructions (vent chase, etc.).
G	3'(0.9m)	3'(0.9m)****	Clearance to each side of the center line extended above the meter / regulator assembly to a maximum vertical distance of 15' (4.6m).
н	3' (0.9m)	3' (0.9m)****	Clearance to a service regulator vent outlet.
I	12" (30.5cm)	9" (229mm)	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.
J	6' (1.8m)	3' (0.9m) †	Clearance to a mechanical air supply inlet.
к	7' (2.1m) ‡	7' (2.1m) ****	Clearance above a paved sidewalk or paved driveway located on public property.
L	12" (30.5cm)****	12" (30.5cm)****	Clearance under a veranda, porch or deck.
м	1' (0.3m)†*	1' (0.3m) †*	Clearance from an adjacent wall including neighbouring buildings.

\* Recommended to prevent condensation on windows and thermal breakage

\*\* It is recommended to maximize the distance to vinyl clad soffits.

\*\*\*\* This is a recommended distance. For additional requirements, check local codes.

- 3 feet above if within 10 feet horizontally. †
- A vent shall not terminate where it may cause hazardous frost or ice accumulations on adjacent property surfaces. ‡
- Permitted only if the veranda, porch, or deck is fully open on a minimum of two sides beneath the floor.  $^{\dagger\dagger}$
- †\* Recommended for service. For additional requirements, check local codes.

#### note:

Clearances are to be in accordance with local installation codes and the requirements of the gas supplier. In their absence, clearances are to be as listed above and are based on national codes.

Wall terminals are for illustration purposes only. Size and shapes may

note:

vary.

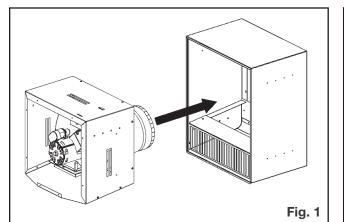
### FOR EXTERIOR AND REMOTE EXTERIOR INSTALLATIONS ONLY

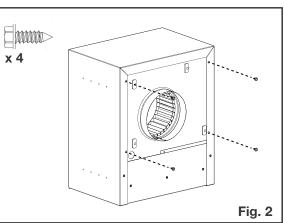
For exterior and remote exterior installations, you must follow the instructions below before beginning installation. For inline installations, see "remote inline pre-installation" section.

1. Insert the blower housing assembly into the exterior housing assembly. Ensure correct orientation (Fig. 1). note:

We recommend installing the inline cover assembly and decorative cover last, after all electrical wiring is complete. See "electrical information" section for installation instructions.

2. Secure the blower housing assembly to the exterior housing assembly using 4 screws (supplied) (Fig. 2).

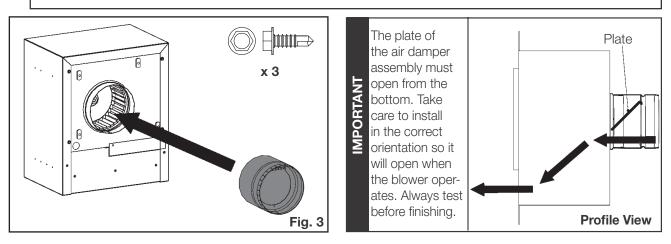




3. Install the air damper assembly onto the collar and secure using self-drilling screws (supplied) (Fig. 3). Rotate so that the damper closes shut when the blower is not running.

#### note:

The air damper assembly must be closed when the blower is not running for the system to function correctly.



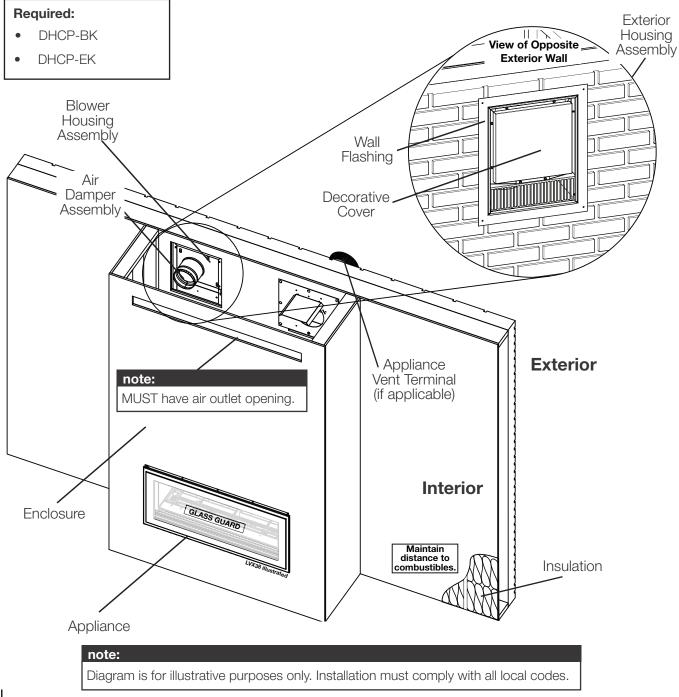
## 4.0 exterior installation

### 4.1 exterior installation overview

#### 

- Minimum clearance to combustibles must be maintained or a serious fire hazard could result.
- DO NOT cover or place any items in the **Dynamic Heat Control™** air outlet opening. Failure to comply with these instructions will create a fire hazard.
- DHC<sup>™</sup> Plus CANNOT be mounted directly above or below the appliance vent terminal as this will cause the system to fail. It MUST be mounted to the left or right of the appliance vent terminal.
- For optimal performance, we recommend installing **DHC™** Plus within the top 12" (30.5cm) of the enclosure. However, it <u>MUST</u> be installed above the appliance.
- The minimum height requirement above the appliance will vary depending on the appliance size. See "minimum venting requirements" section of your appliance manual for details.

**DHC™ Plus** exterior installation is the simplest installation option. It is installed on the exterior wall of the appliance enclosure.



### 4.2 minimum framing requirements

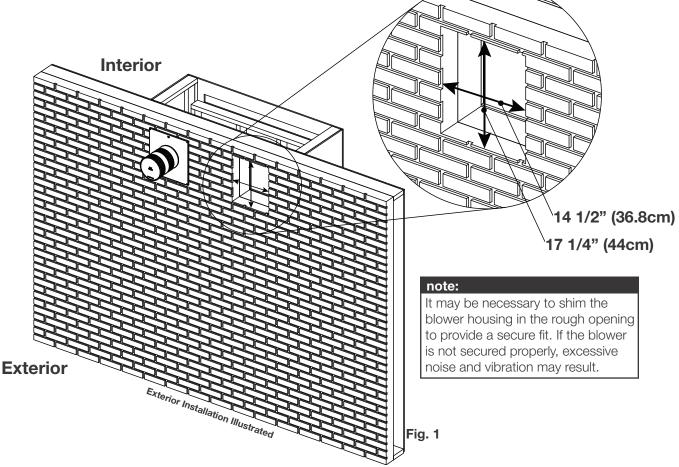
### APPLICABLE FOR EXTERIOR AND REMOTE EXTERIOR INSTALLATIONS

note:

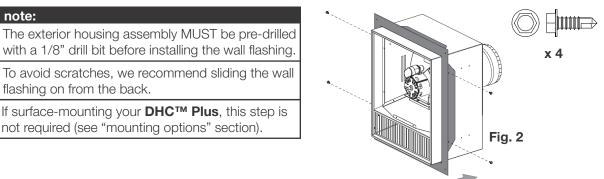
For optimal performance, we recommend installing **DHC<sup>™</sup> Plus** within the top 12" (30.5cm) of the enclosure. The **DHC<sup>™</sup> Plus** must be mounted above the appliance.

Minimum Clearance to Combustibles	Clearance
DHCP-EK	0"
Vent pipe, collars, firestops, etc.	1" (25mm)

1. Determine the desired location of the exterior housing assembly on the exterior wall, and then frame a 14 1/2" (36.8cm) wide by 17 1/4" (44cm) high opening (Fig. 1).

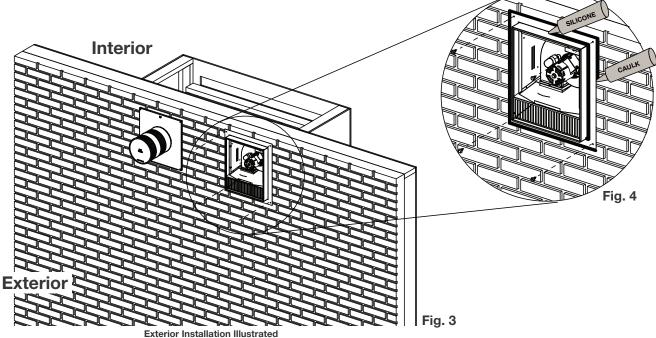


2. Determine the desired amount of protrusion from the finished exterior wall, and then fasten the wall flashing using 4 screws (supplied) (Fig. 2). See "mounting options" section for details.



## exterior installation

- 3. Attach the exterior housing assembly to the exterior wall by securing the wall flashing using the appropriate fasteners (not supplied) (Fig. 3).
- 4. Apply silicone to the joint after installation, and caulk or seal the wall flashing appropriately for the finish material (Fig. 4).



5. We recommend installing the inline cover assembly and decorative cover last, after all electrical wiring is complete. See "electrical information" section for installation instructions.

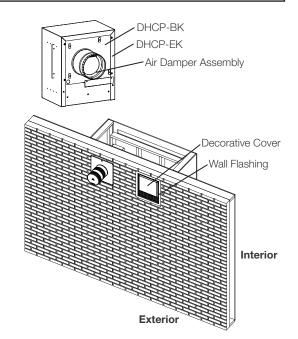
### 4.3 completed installation checklist

## 

- Ensure all items are checked for your respective installation or a serious fire hazard could result.
- Completed installations must conform to local codes or, in the absence of local codes, the National Gas and Propane Installation Code CSA B149.1 in Canada, or the National Fuel Gas Code ANSI Z223.1 / NFPA 54 in the United States.

### Installer, please tick all boxes for this installation or it IS NOT considered complete.

- 1. DHCP-BK installed into DHCP-EK.
- 2. Air damper assembly installed and checked.
- 3. Rough opening framed into exterior wall.
- 4. Wall flashing installed and sealed appropriately for finish material.
- 5. DHCP-EK attached to exterior wall.
- 6. Inline cover assembly installed (see "electrical information" section).
- 7. Decorative cover installed and system operation checked with appliance (see "electrical information" section).
- 8. Wiring completed (see "electrical information" section).
- 9. On/off switch adjusted to fully "on" position.



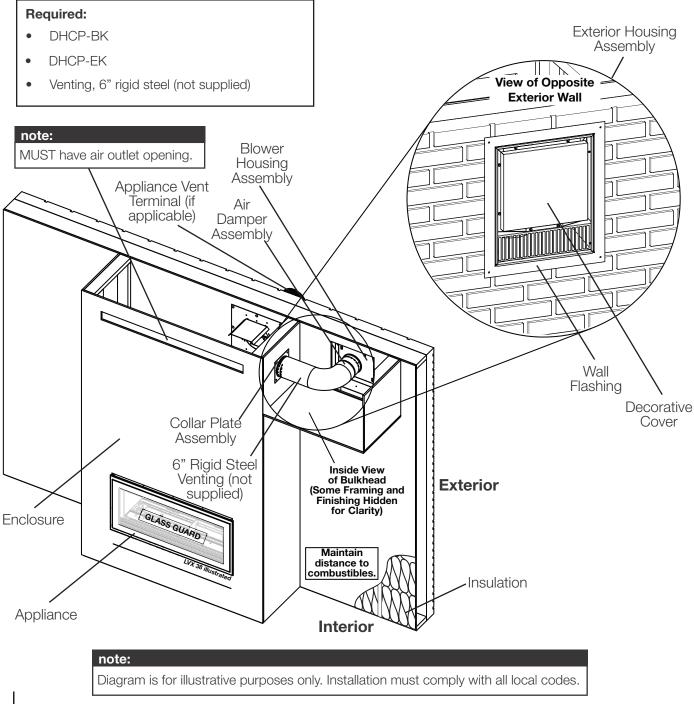
## 5.0 remote exterior installation

### 5.1 remote exterior installation overview

## 

- Minimum clearance to combustibles must be maintained or a serious fire hazard could result.
- DO NOT cover or place any items in the **Dynamic Heat Control™** air outlet opening. Failure to comply with these instructions will create a fire hazard.
- DHC<sup>™</sup> Plus CANNOT be mounted directly above or below the appliance vent terminal as this will cause the system to fail. It MUST be mounted to the left or right of the appliance vent terminal.
- For optimal performance, we recommend installing **DHC™ Plus** within the top 12" (30.5cm) of the enclosure. **However, it** <u>MUST</u> be installed above the appliance.
- The minimum height requirement above the appliance will vary depending on the appliance size. See "minimum venting requirements" section of your appliance manual for details.

**DHC™ Plus** remote exterior installation can be installed remotely from the appliance enclosure up to 60' (18.2m) away.



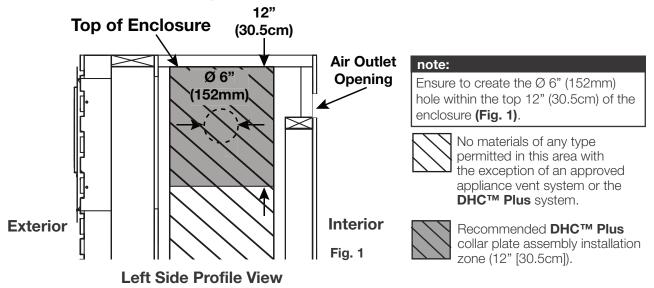
### remote exterior installation

### 5.2 minimum framing requirements

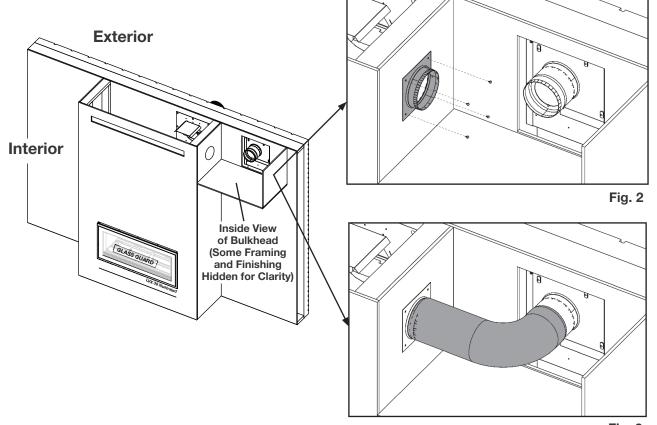
See "minimum framing requirements" in exterior installation section for details.

### 5.3 ducting installation

1. Determine the location for the 6" (152mm) collar plate assembly on the appliance enclosure, and then cut a hole 6" (152mm) in diameter (Fig. 1).



- 2. Using appropriate fasteners (not supplied), secure the 6" (152mm) collar plate assembly over the hole inside the bulkhead (Fig. 2).
- 3. Install 6" rigid steel venting (not supplied) from the appliance enclosure to the blower housing assembly (Fig. 3).



### remote exterior installation

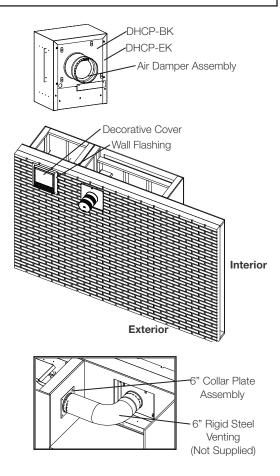
### 5.4 completed installation checklist

## WARNING

- Ensure all items are checked for your respective installation or a serious fire hazard could result.
- Completed installations must conform to local codes or, in the absence of local codes, the National Gas and Propane Installation Code CSA B149.1 in Canada, or the National Fuel Gas Code ANSI Z223.1 / NFPA 54 in the United States.

### Installer, please tick all boxes for this installation or it IS NOT considered complete.

- 1. DHCP-BK installed into DHCP-EK.
- 2. Air damper assembly installed and checked.
- 3. Rough opening framed into exterior wall.
- Wall flashing installed and sealed appropriately for finish material.
- 5. DHCP-EK attached to exterior wall.
- 6. Inline cover assembly installed (see "electrical information" section).
- 7. Decorative cover installed and system operation checked with appliance (see "electrical information" section).
- $\square$  8. Ø 6" (152mm) hole cut into appliance enclosure.
- 9. Collar plate assembly secured.
- 10. 6" rigid steel venting (not supplied) installed.
- 11. Wiring completed (see "electrical information" section).
- 12. On/off switch adjusted to fully "on" position.



### FOR EXTERIOR AND REMOTE EXTERIOR INSTALLATIONS ONLY

### 

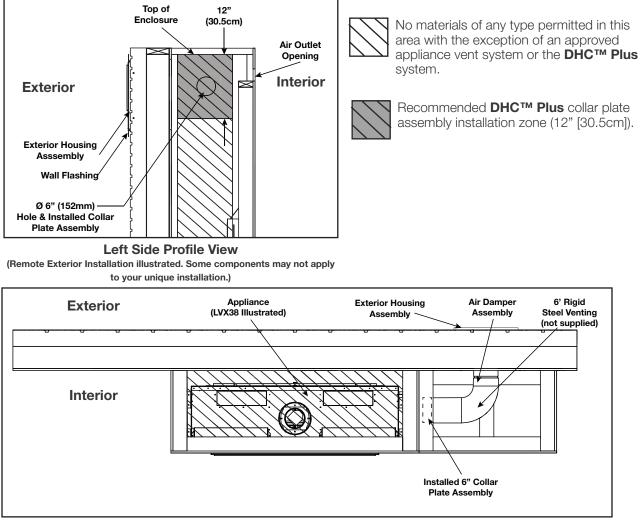
- Minimum clearance to combustibles must be maintained or a serious fire hazard could result.
- DO NOT cover or place any items in the **Dynamic Heat Control™** air outlet opening. Failure to comply with these instructions will create a fire hazard.
- DHC<sup>™</sup> Plus CANNOT be mounted directly above or below the appliance vent terminal as this will cause the system to fail. It MUST be mounted to the left or right of the appliance vent terminal.
- For optimal performance, we recommend installing **DHC<sup>™</sup> Plus** within the top 12" (30.5cm) of the enclosure. However, it <u>MUST</u> be installed above the appliance.
- The minimum height requirement above the appliance will vary depending on the appliance size. See "minimum venting requirements" section of your appliance manual for details.

#### note:

Consider blower location carefully as the air flow sound from the blower is more apparent the closer it is to the appliance. See "sound considerations" section for details.

### 6.1 flush

In this mounting option, the wall flashing and exterior housing assembly are flush with the finished exterior wall. A 14 1/2" (36.8cm) by 17 1/4" (44cm) rectangular opening must be framed into the exterior wall (see "minimum framing requirements" section for details).

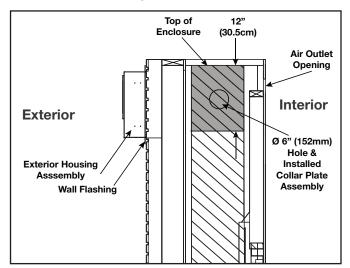


Remote Exterior Installation illustrated. Some components may not apply to your unique installation.)

## mounting options

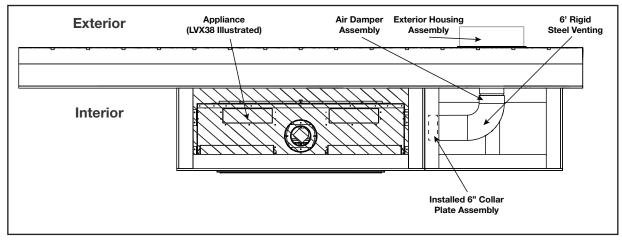
### 6.2 protruding

In this mounting option, the wall flashing is flush with finished exterior wall but the exterior housing assembly is protruding from the finished exterior wall. A 14 1/2" (36.8cm) by 17 1/4" (44cm) rectangular opening must be framed into the exterior wall (see "minimum framing requirements" section for details).



Left Side Profile View

(Remote Exterior Installation illustrated. Some components may not apply to your unique installation.)



**Top Side View** 

(Remote Exterior Installation illustrated. Some components may not apply to your unique installation.)



No materials of any type permitted in this area with the exception of an approved appliance vent system or the **DHC<sup>™</sup> Plus** system.



Recommended DHC<sup>™</sup> Plus collar plate assembly installation zone (12" [30.5cm]).

## mounting options

### 6.3 surface

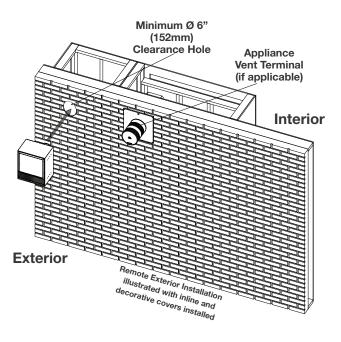
In this mounting option, the exterior housing assembly is surface-mounted to the finished exterior wall without the use of a wall flashing. Surface-mounting requires the framing of a minimum Ø 6" (152mm) clearance hole in the exterior wall for the air damper assembly (see illustrations).

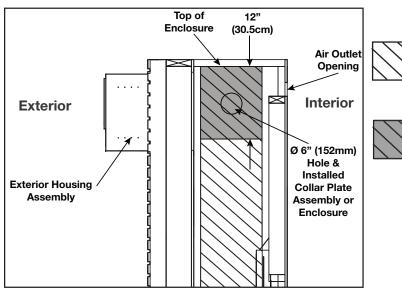
#### note:

When surface-mounting **DHC™ Plus**, ensure to fix the appliance to studs.

Due to a variety of potential finish materials, brackets to mount **DHC<sup>™</sup> Plus** need to be fabricated on-site from suitable materials and attached using selfdrilling fasteners at the dimples provided on the side of the housing. Suitable flashing, drip edges, and sealing must be completed in accordance with good construction practices to weather-proof the installation.

Care must be taken to fasten the **DHC™ Plus** securely, and the weight of the system must not be supported by the ducting or air damper assembly.



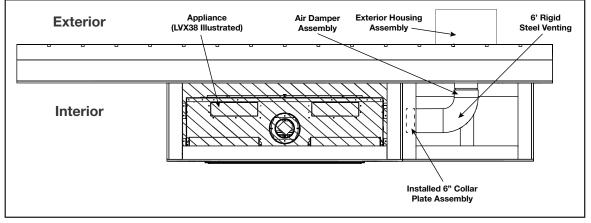


No materials of any type permitted in this area with the exception of an approved appliance vent system or the **DHC™ Plus** system.

Recommended **DHC™ Plus** collar plate assembly installation zone (12" [30.5cm]).

### Left Side Profile View

(Remote Exterior Installation illustrated. Some components may not apply to your unique installation.)



## 7.0 remote inline pre-installation

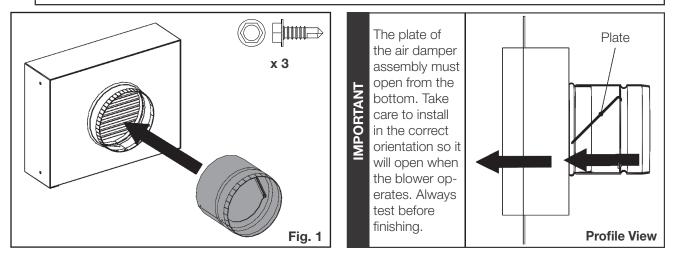
### FOR REMOTE INLINE INSTALLATIONS ONLY

For remote inline installations, you must follow the instructions below before beginning installation. For exterior and remote exterior installations, see "exterior & remote exterior pre-installation" section.

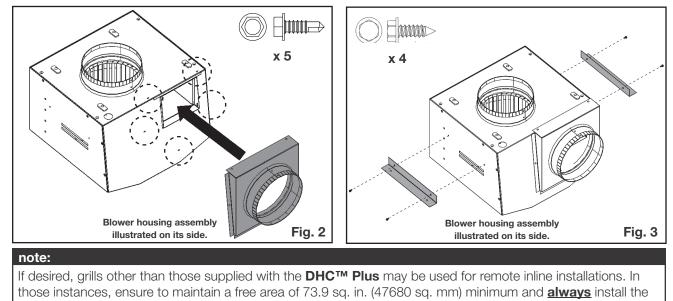
1. Install the air damper assembly onto the collar of the hot air exhaust assembly and secure with self-drilling screws (supplied) (Fig. 1). Rotate so that the air damper assembly closes shut when the blower is not running.

#### note:

The air damper assembly must be closed when the blower is not running for the system to function correctly.



- 2. Attach the 6" (152mm) collar connector assembly to the blower housing assembly using self-drilling screws (supplied) (Fig. 2).
- 3. Attach the mounting brackets to the blower housing assembly using screws (supplied) (Fig. 3).



4. Attach the inline cover assembly using screws (supplied). See "electrical information" section for more details.

damper.

#### 8.1 remote inline installation overview

## 

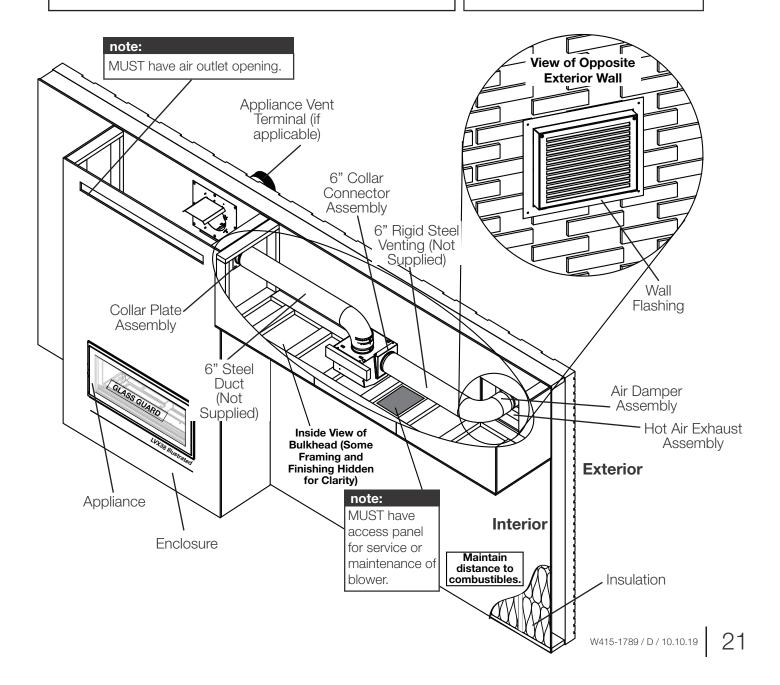
- Minimum clearance to combustibles must be maintained or a serious fire hazard could result.
- DO NOT cover or place any items in the **Dynamic Heat Control™** air outlet opening. Failure to comply with these instructions will create a fire hazard.
- DHC<sup>™</sup> Plus CANNOT be mounted directly above or below the appliance vent terminal as this will cause the system to fail. It MUST be mounted to the left or right of the appliance vent terminal.
- For optimal performance, we recommend installing **DHC™** Plus within the top 12" (30.5cm) of the enclosure. However, it <u>MUST</u> be installed above the appliance.
- The minimum height requirement above the appliance will vary depending on the appliance size. See "minimum venting requirements" section of your appliance manual for details.

**DHC<sup>™</sup> Plus** remote inline installation can be installed inline anywhere between the appliance enclosure and the hot air exhaust assembly with a total vent length up to 60' (18.2m).

#### **Required:**

- DHCP-BK
- Venting, 6" rigid steel (not supplied)
- DHCP-HK •
- Duct, steel 6" (not supplied)
- Diagram is for illustrative purposes only. Installation must comply with all electrical and local codes.

note:



### 8.2 minimum framing requirements

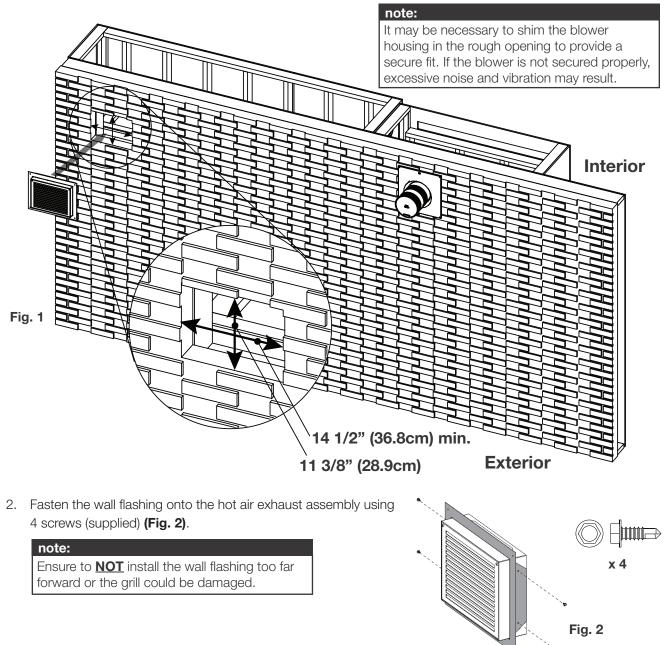
#### note:

For optimal performance, we recommend installing **DHC<sup>™</sup> Plus** within the top 12" (30.5cm) of the enclosure. The **DHC<sup>™</sup> Plus** must be mounted above the appliance.

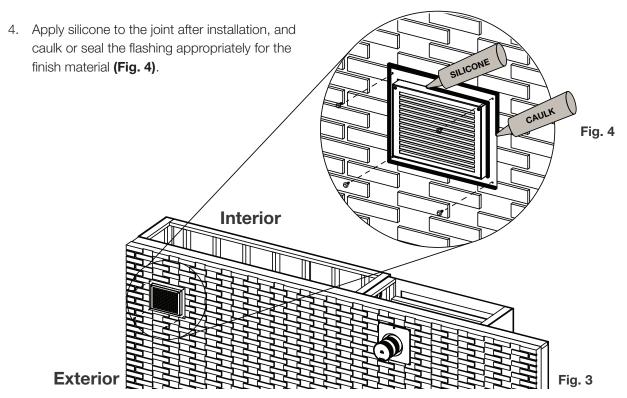
A bulkhead may need to be constructed to house the venting and blower housing assembly with appropriate blower access panel. Always maintain clearance to combustibles.

Minimum Clearance to Combustibles	Clearance
DHCP-BK	0"
DHCP-HK	0"
Vent pipe, collars, firestops, etc.	1" (25mm)

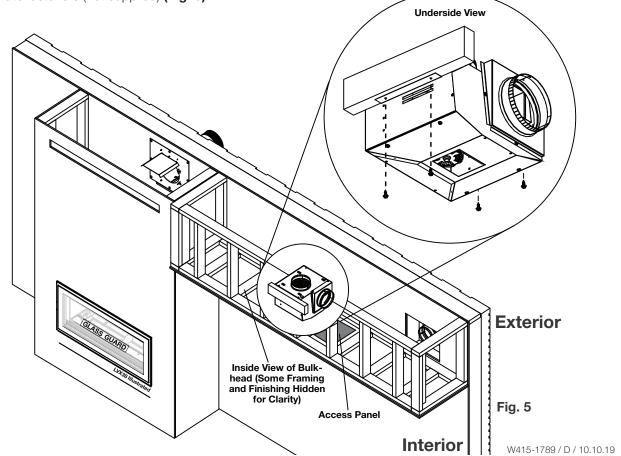
1. Determine the desired location for the hot air exhaust assembly on the exterior wall and frame a 14 1/2" (36.8cm) wide by 11 3/8" (28.9cm) high opening (Fig. 1).



3. Attach the hot air exhaust assembly to the exterior wall by securing the wall flashing with appropriate fasteners (not supplied) (Fig. 3).

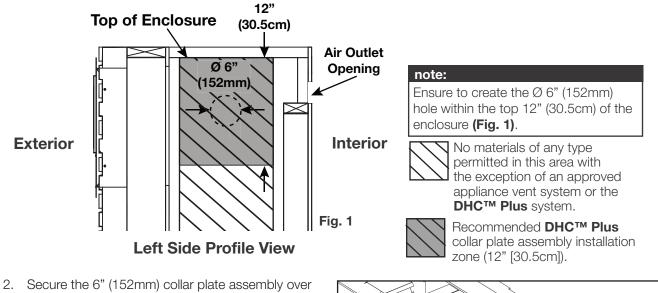


5. Determine the location of the blower housing assembly, and then frame two studs spaced at 13 1/4" (33.6cm). Secure the blower housing assembly to the framing by securing the mounting brackets with appropriate fasteners (not supplied) (Fig. 5).

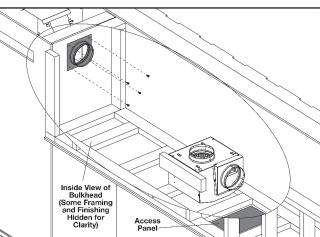


### 8.3 ducting installation

1. Determine the location for the 6" (152mm) collar plate assembly on the appliance enclosure, and then cut a 6" (152mm) diameter hole (Fig. 1).



- Secure the 6" (152mm) collar plate assembly over the hole with the appropriate fasteners (not supplied) (Fig. 2).
- Install 6" steel ducting (not supplied) from the appliance enclosure to the blower housing assembly inlet (Fig. 3).
- 4. Install 6" rigid steel venting (not supplied) from the blower housing assembly outlet to the hot air exhaust assembly (**Fig. 4**).



Access

note:

Ensure to maintain 1" (25mm) clearance to combustibles.

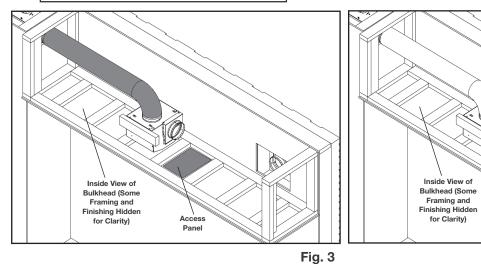


Fig. 4

Fig. 2

#### note:

When constructing a bulkhead, particularly one that passes through multiple rooms or spaces, always ensure that you adhere to all local building codes and requirements.

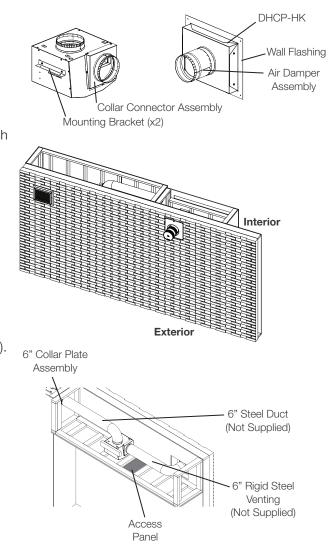
### 8.4 completed installation checklist

## 

- Ensure all items are checked for your respective installation or a serious fire hazard could result.
- Completed installations must conform to local codes or, in the absence of local codes, the National Gas and Propane Installation Code CSA B149.1 in Canada, or the National Fuel Gas Code ANSI Z223.1 / NFPA 54 in the United States.

### Installer, please tick all boxes for this installation or it IS NOT considered completed.

- 1. Air damper assembly installed and checked.
- 2. Collar connector assembly attached.
- 3. Mounting brackets installed.
- 4. Rough opening framed into exterior wall.
- 5. Wall flashing installed and sealed appropriately for finish material.
- 6. DHCP-HK attached.
- **7**. Studs framed.
- 8. Ø 6" (152mm) hole cut into appliance enclosure.
- 9. Collar plate assembly secured.
- 10. 6" steel duct (not supplied) installed.
- 11. 6" rigid steel venting (not supplied) installed.
- 12. Wiring completed (see "electrical information" section).
- 13. On/off switch adjusted to fully "on" position.

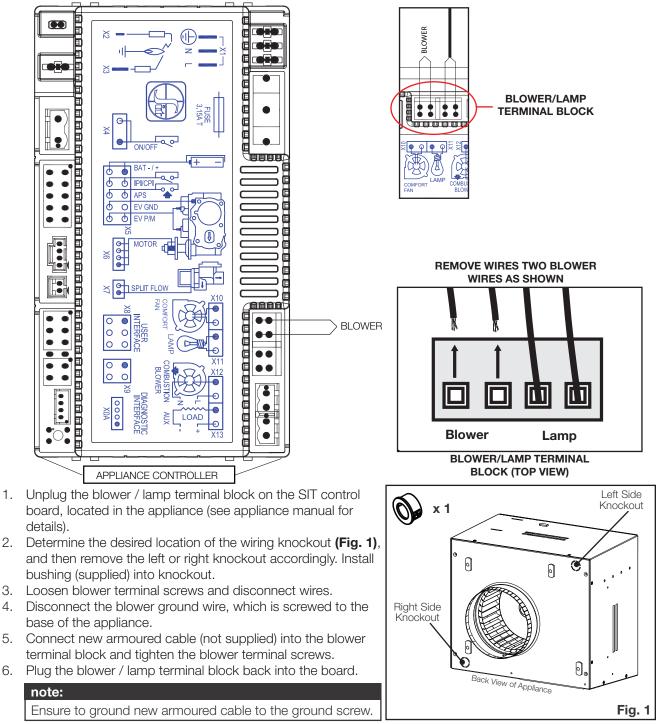


## 9.0 electrical information

## 

- All wiring should be done by a qualified electrician, and must be connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA 22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70-1996 National Electrical Code in the United States.
- All electrical wires must be strain-relieved and protected according to local codes and good installation practices.
- You must used armoured cable for the installation of **DHC™ Plus**.

### 9.1 wiring to SIT control board & remote control



7. If applicable, remove the 4 screws securing the decorative cover on the blower housing assembly and set them aside (Fig. 4, next page). Remove the decorative cover and set it aside.

## electrical information

x2

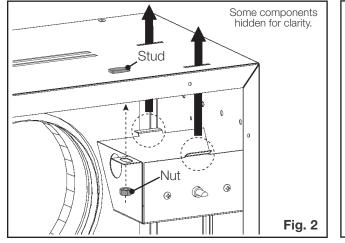
- 8. If applicable, remove the 4 screws securing the inline cover assembly and set them aside (Fig. 3). Remove the inline cover assembly and set it aside.
- 9. Install the on/off switch into the on/off switch housing with 2 screws (supplied).
- 10. Install the pal nut and knob.
- 11. Install the new armoured cable from the SIT control board to the on/off switch housing inside the blower kit housing.
- 12. Connect the hot wire of the new armoured cable to one end of the on/off switch inside the on/off switch housing.

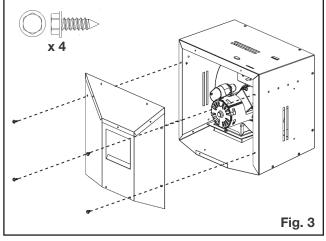
#### note:

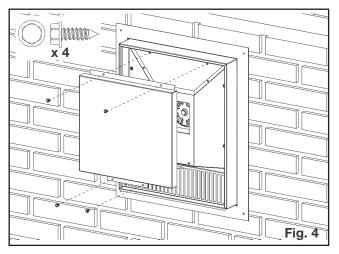
Ensure to use armoured cable, connectors, and strain reliefs suitable for installation (not supplied).

Armoured cable should be installed in a stud whenever possible. Armoured cable should also be installed as close to the outside of the enclosure and as far away from the appliance as possible.

- 13. Connect the opposite end of the on/off switch to the black wire from the blower inside the on/off switch housing.
- 14. Connect the neutral wire of the new armoured cable to the white wire from the blower inside the on/off switch housing.
- 15. Connect the ground wires from the blower and armoured cable to the ground screw inside the on/off switch housing.
- 16. Install the on/off switch housing into the blower kit housing by inserting the tabs into the slots (Fig. 2). Tighten the nut onto the stud.
- 17. Install/reinstall the inline cover assembly using 4 screws (supplied) (Fig. 3).
- 18. Install/reinstall the decorative cover onto the blower housing assembly using 4 screws (supplied) (Fig. 4).

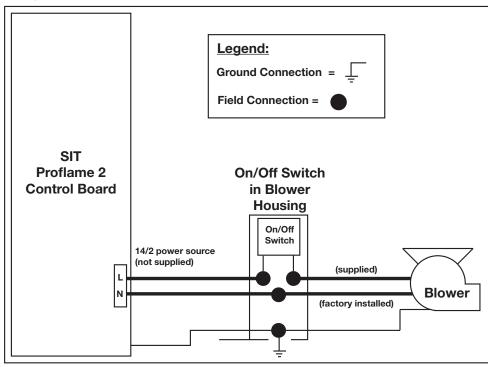






## electrical information

9.1.1 wiring diagram



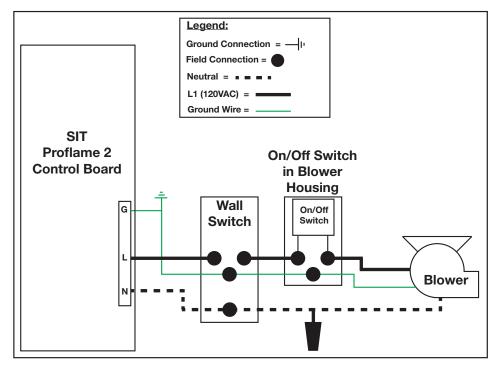
### 9.2 wiring to wall switch & remote control (in series)

- 1. Determine the location for the wall switch. Install an electrical box (not supplied) at the location.
- 2. Ensure the hot and neutral wires from the Proflame 2 are properly connected to the wall switch box.
- 3. Connect the hot wire from the on/off switch to the wall switch.
- 4. Connect the neutral wires to each other from the blower to the power source neutral (N).
- 5. Connect the all ground from the SIT Proflame 2 control board to the blower.

#### note:

Check the blower specifications (see "blower specifications" section) before choosing a suitable wire size.

### 9.2.1 wiring diagram



## electrical information

#### 9.3 wiring to wall switch only

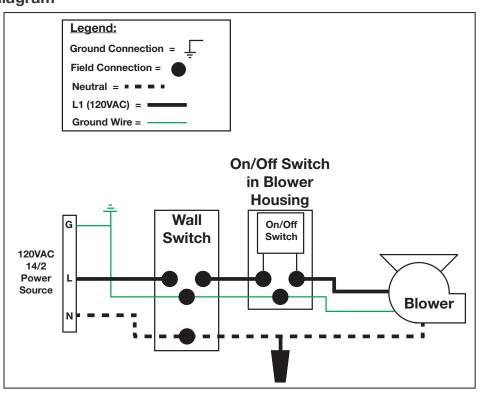
- 1. Turn off the power by locating your housebreaker, and shutting the power off to the room you will be working in.
- 2. Determine the location for the wall switch (not supplied). Install an electrical box (not supplied) at the location.

Check the blower specifications (see "blower specifications" section) before choosing a suitable wire size.

- 3. Ensure the wires for the wall are properly wired to the switch box and are ready.
- 4. Connect the hot wire from the on/off switch to the wall switch.
- 5. Connect the neutral wires to each other from the blower to the power source neutral (N).
- 6. Connect the all ground from the power source to the blower.

## 9.3.1 wiring diagram

note:



### 9.4 blower specifications

004	64504	00469142
Assembled in 115 V 0.9A/1.1A		Connection Diagram Wht ———— Line Blk ———— Line Blu ————
Cust P/N Thermally Prot	Sealed Ball Brg	Blu ————————————————————————————————————
	AO	4 MFD/370 VAC
	612	99553

## 10.0 operation

## 

• This should be performed after both the appliance and **DHC<sup>™</sup> Plus** have been fully installed, including all venting and finishing materials.

For optimal performance, the on/off switch in the blower housing must **<u>ALWAYS</u>** be set to the **maximum** speed setting.

#### note:

ΕN

If a lower speed is selected (at the blower housing or remote) to reduce air flow, the result may be a minor imbalance of the motor that causes a minor humming. While this will not affect the longevity of the motor, it may result in a noticeable noise depending on the location of the **DHC<sup>™</sup> Plus** blower kit.

### 10.2 using remote control

The remote control has 5 different blower speed settings. For optimal performance, the remote control must **<u>ALWAYS</u>** be set to the **maximum** speed setting.

#### note:

If a lower speed is selected (at the blower housing or remote) to reduce air flow, the result may be a minor imbalance of the motor that causes a minor humming. While this will not affect the longevity of the motor, it may result in a noticeable noise depending on the location of the **DHC<sup>™</sup> Plus** blower kit.

## WARNING

• Failure to position the parts in accordance with this manual or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Contact your dealer for questions concerning prices and policies on replacement parts. Normally, all parts can be ordered through your Authorized dealer / distributor.

## For warranty replacement parts, a photocopy of the original invoice will be required to honour the claim.

When ordering replacement parts always give the following information:

- Model & Serial Number of appliance
- Installation date of appliance
- Part number
- Description of part
- Finish

Parts, part numbers, and availability are subject to change without notice.

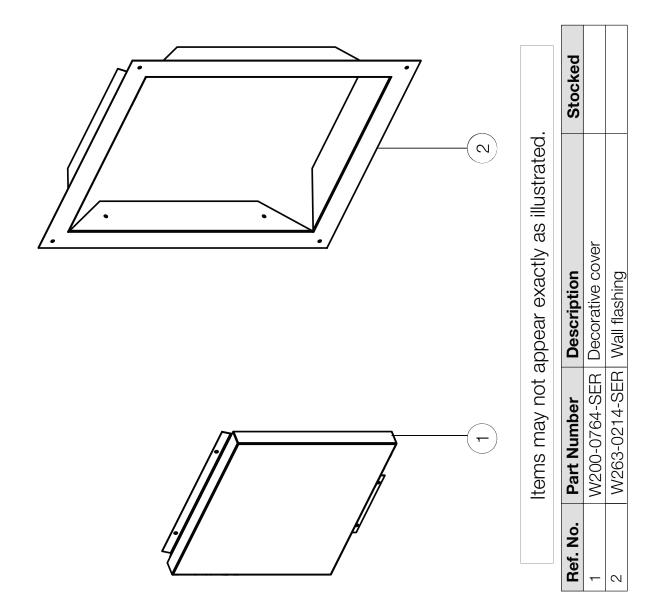
Parts identified as stocked will be delivered within 2 to 5 business days for most delivery destinations.

Parts not identified as stocked will be delivered within a 2 to 4 week period, for most cases.

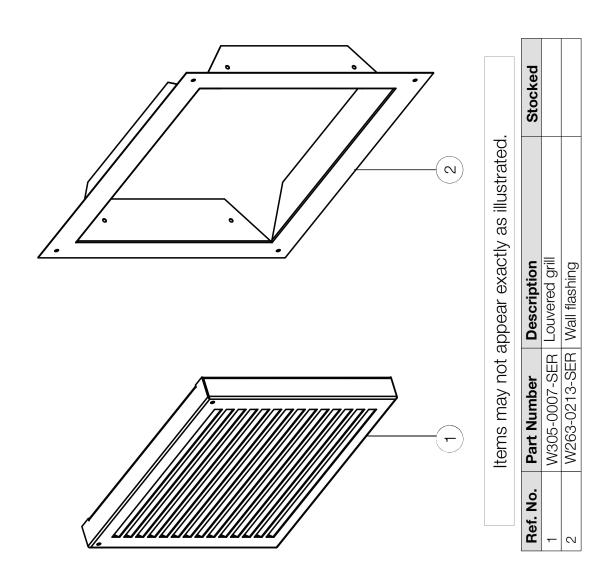
Parts identified as 'SO' are special order and can take up to 90 days for delivery.

### 0 0 Stocked Yes Ø W010-4482-SER Connection collar assembly W010-4544 Inline cover assembly W350-0908-SER Inline housing On/off switch Description 2 0 Part Number W660-0113 Items may not appear exactly as illustrated. $(\infty)$ ( ~ 4 Ref. No. 5 9 œ $\sim$ Stocked က W010-4481-SER Air damper assembly W010-4483-SER Collar plate assembly W290-0876-SER Gasket W062-0078-SER DHC<sup>TM</sup> Plus blower Description ø Thund (2) Part Number Ref. No. $\sim$ ო 4 t

11.1 DHCP-BK overview








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