

**NATIONAL  
COMFORT  
PRODUCTS**

**HEATING & A/C EQUIPMENT**



## Specification Manual for Architects & Engineers



Thru-the-Wall Heating and Air Conditioning  
for Multi-Family Construction



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# Introduction

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National Comfort Products has been a leading manufacturer of thru-the-wall heating and air conditioning equipment for the multi-family industry for over 25 years. We have built our reputation on high quality products and fast, efficient service, making National Comfort Products a leader in customer satisfaction. Here at National Comfort Products, our team is committed to advanced research and development to continuously develop products using the latest advances in energy efficiency and design. National Comfort Products equipment is available through HVAC wholesale distribution channels found in all the major markets.

National Comfort Product's 200,000 square-foot manufacturing facility in Bensalem, PA, features sophisticated metal fabricating equipment, a robotic brake, punching cells, and copper machines. With new state-of-the-art tooling, including refrigeration charging, leak checking equipment, and metal processing equipment, we ensure that all of our heating and air conditioning equipment meets our high quality standards before it is shipped to our customers. All phases of the manufacturing process from engineering and design to fabrication and assembly are done in-house by our experienced personnel.



*Multi-family complexes using Comfort Packs produced by National Comfort Products.*

# Specifications



## 1. Product Name

National Comfort Products – Comfort Pack

## 2. Manufacturer

National Comfort Products

539 Dunksferry Road, Bensalem, PA 19020

Phone: (800) 523-7138

Fax: (215) 639-1674

Email: sales@NationalComfortProducts.com

Website: www.NationalComfortProducts.com

## 3. Product Description

**Comfort Pack** is a SPVU heating and cooling unit designed for the multi-family industry. It is self-contained heating and cooling thru the wall packaged unit available with gas or electric heat. Thru the wall operation saves money and time with simple and easy installation, and removes the need for long line sets or electrical runs.

### Models

CPG – Gas Heat (Natural or LP) w/ Electric Cooling

CPE – Electric Heat w/ Electric Cooling

### Capacities

CPG Models – Where natural gas is available, no need for a chimney due to its direct vented flue system and use of outside air for combustion. We offer heating packages of up to 51,000 BTUH output. All packages can be field converted to LP with our LP Conversion Kit.

CPE Models – Where natural gas is not available we offer heating packages of 5, 7.5, 10, and 15 KW.

### Materials

Cabinet to be constructed of Pre-Painted Galvanized Steel

**Color** – Neutral tone finish of Tan



### Voltage

Factory wired for 230 Volts 1 Phase 60 Hertz and can be field adjusted for 208 Volts. Operating voltages are from 197 to 253 Volts. All CPE ratings are based at 230 Volts.

### Indoor Air Flow

Top Supply (outlet), Bottom Return (inlet) (Approved for front/open return if local codes apply) (Optional return boot available for top return designs)

### Filter

Factory filter easily accessed by thumb screw mounted panel w/ filter retainer rod.

## Slide Out Chassis

Serviceable slide out cooling section with Coremax refrigeration service ports. 5 Speed DC blower motor.

## Secondary Drain

Secondary condensate drain with trap piped to outdoor section of unit for drainage thru exterior weep holes providing extra protection and indication of primary drain blockages.

## Slide Out Furnace (Gas)

Serviceable slide out gas furnace assembly with stainless steel heat exchanger.

## Sequencing Control (Electric)

Two stage heat sequencing triac control board.

## 4. Technical Data Limitations

All installations should factor a proper building heat loss/gain, along with appropriate duct sizing, gas mains and riser sizing, and electrical supply wiring to be figured by a professional engineer familiar with local and national codes.

## 5. Standard Controls & Components

Equipped to operate with a standard (1H/1C or 2H/1C) low voltage thermostat. Factory mounted junction box provided for field wiring. 16 x 25 x 1 washable air filter. Gas units equipped with dual LED diagnostic light. 3/4" o.d. primary drain connection with flexible tubing provided.

## 6. Install

Recommended installation with CPWS wall sleeve for clean finish and future service accessibility. A 29" wide by 29" deep open area must be provided unobstructed in front of the access panels for chassis and furnace service removal.

## 7. Sales

Comfort Pack is available thru a variety of wholesalers. Contact the factory to help locate a nearby distributor for price and availability.

## 8. Warranty

5 year warranty on all parts, 5 year warranty on compressor and 10 year warranty of the heat exchanger (gas only). 90 day labor warranty.

## 9. Service

The Comfort Pack is equipped with a slide out cooling chassis and a slide out furnace for simple maintenance and service. All standard maintenance instructions can be found in the installation guides.

## 10. Technical Support

Factory technical assistance is available to help with any concerns or situations regarding the Comfort Pack.

# Unit Clearances

*For proper unit performance and maximum operating life please maintain the following minimum installation clearances listed below.*

**Comfort Pack** units must be installed through an outside wall. Confined spaces and/or covered areas should be avoided. Consult the factory if unclear of clearances required. Units must be installed a minimum of **12"** apart when two units are side by side. If three or more units are to operate next to one another, allow a minimum of **60"** between units or pairs of units. Also, a vertical clearance of **60"** should be maintained between units. Units installed on the bottom floor should be mounted at least **8"** off of the ground.

When obstructions are present use the following guidelines for proper spacing from the Comfort Pack exterior grille or louver: For minor obstruction such as poles or small shrubbery a clearance of **30"** from the outdoor louver must be maintained. For major obstructions such as a solid fence, walls or other heat rejecting device like a condensing unit, a minimum distance of **72"** must be maintained.

The above recommendations are for reference only and are not to an exact science. They also do not represent all possible installations. Please contact **National Comfort Products** (See contact information on back inside cover) for information regarding affects of other installation arrangements of your project.

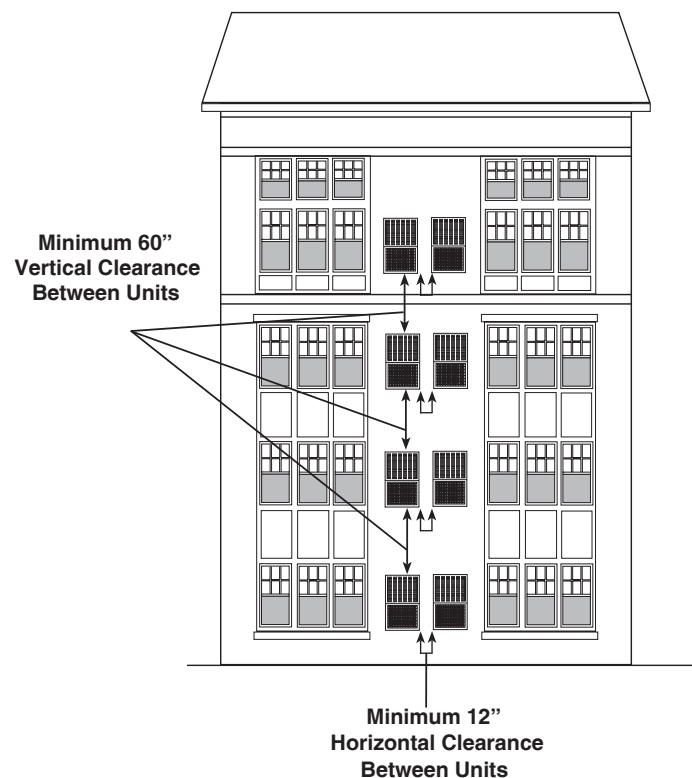
Clearance to combustibles is defined as the minimum distance from a heater to a surface or object that is necessary to ensure that a surface temperature of 90°F above the surrounding ambient temperature is not exceeded. Minimum clearance to combustibles from all sides of this properly installed unit is zero inches. Adequate clearances must be provided to allow installation of the union and shutoff gas valve, as well as accessibility to wiring and control compartments. If this unit is installed in an attic or other insulated spaced it must be kept free and clear of insulating material. The area must be inspected when the unit is installed or insulation is added. Some insulating materials may be combustible.

The unit is designed and approved for thru the wall installation only. The unit must be installed a minimum of **8"** above a finished floor. If the unit is

installed in a residential garage, it must be installed so that the ignition source and burners are located not less than **18"** above the floor, and it must be located or protected to avoid physical damage by vehicles.

## Noise

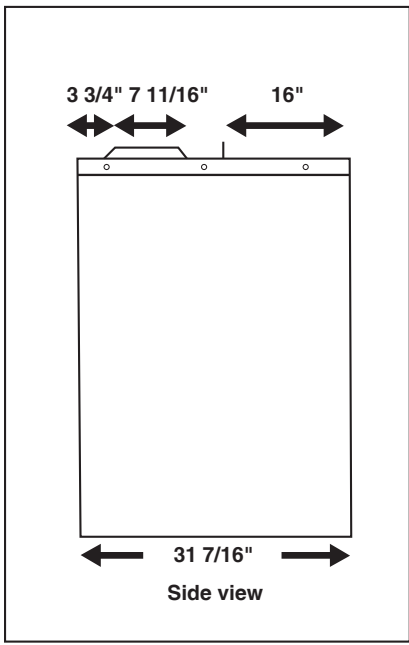
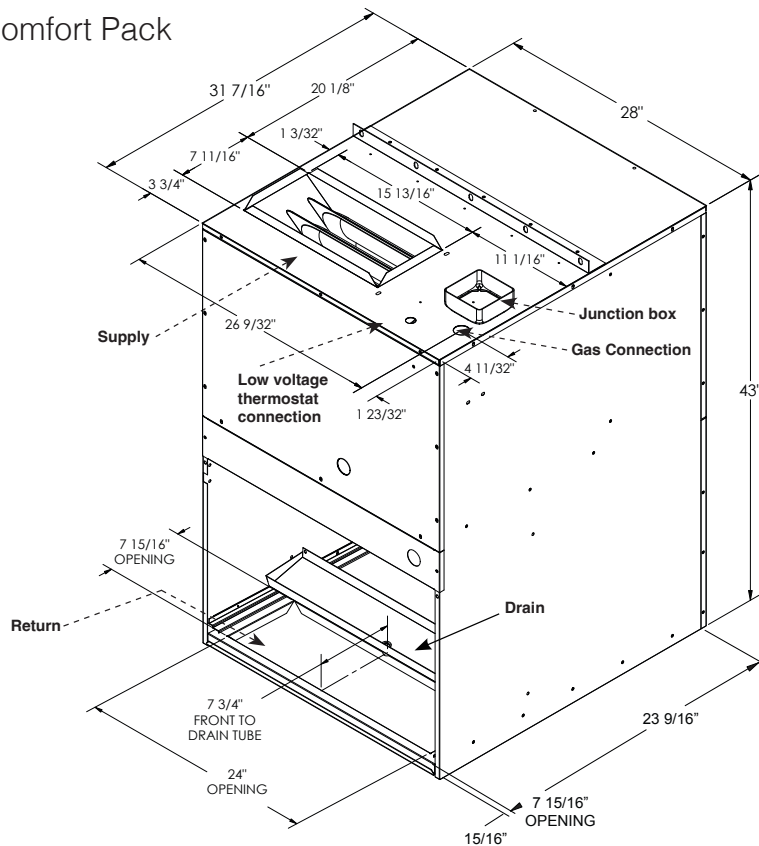
To accommodate acoustical sound created by reflection from a parallel wall it is best to keep as much distance as practical from the face of the unit. Best case scenario is for the units to be placed in an outer perimeter wall of the building. 6 ft. is recommended from the outer edge of the unit to any glass of a window or door to alleviate any sound transmission.



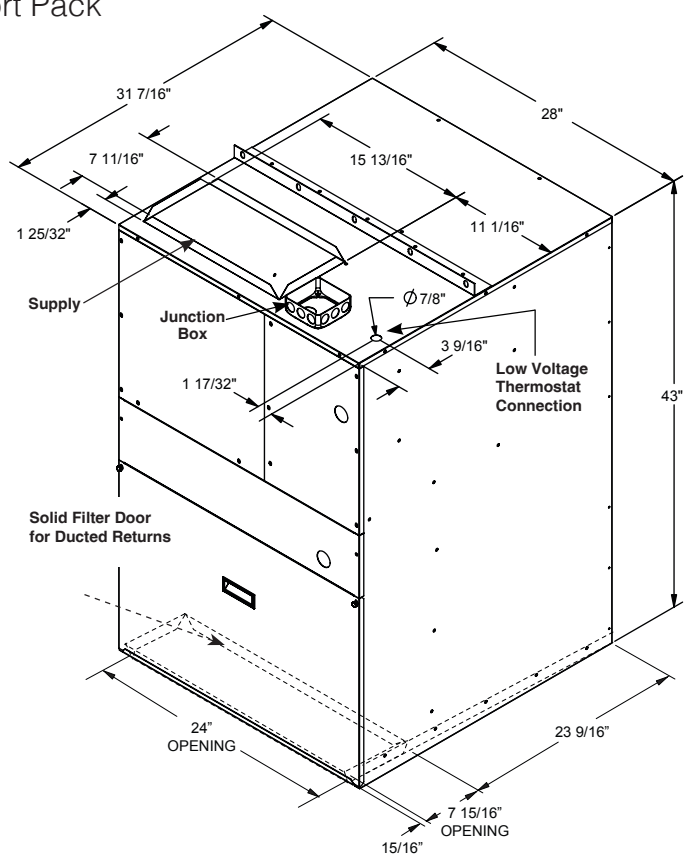
*\*Less than 12" Call National Comfort Products*

# Dimensional Drawings

## CPG-Comfort Pack

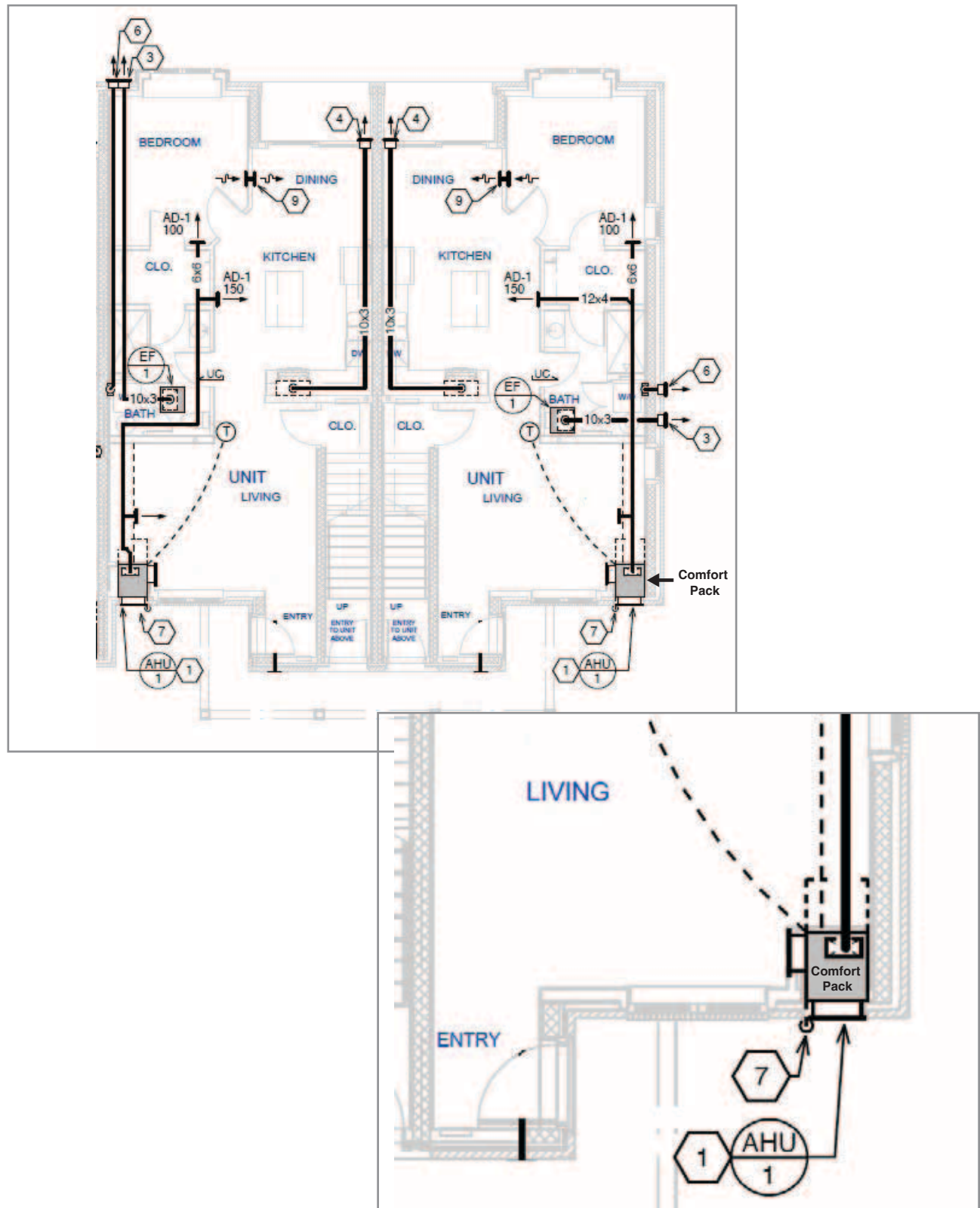


## CPE-Comfort Pack





# Unit Location

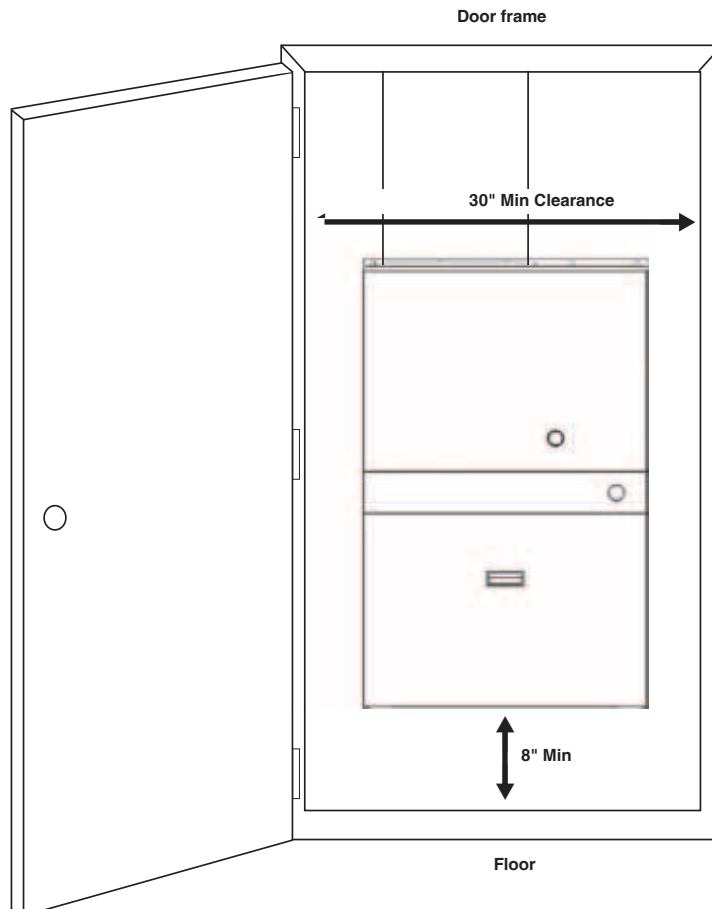
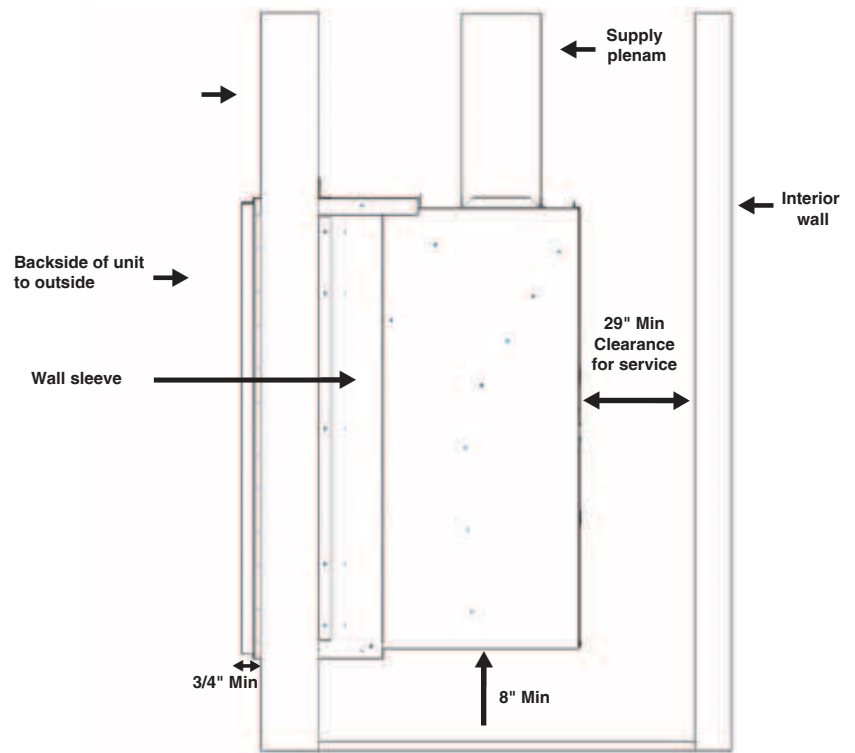




# Service Access

One of the most important clearances is the space inside the room that houses the unit. It is important to leave 29" of clearance behind the unit for removal of both the chassis and furnace for cleaning and servicing. If you prefer to gain the 29" of clearance with a removable door it is recommended that a 30" minimum door be installed centered with the unit.

Note: Check local codes. Some codes may require more clearance for servicing.

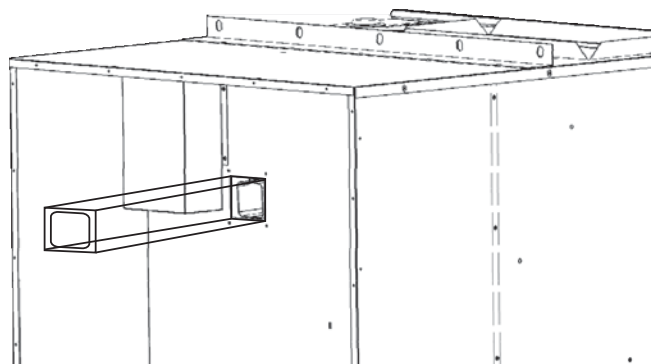
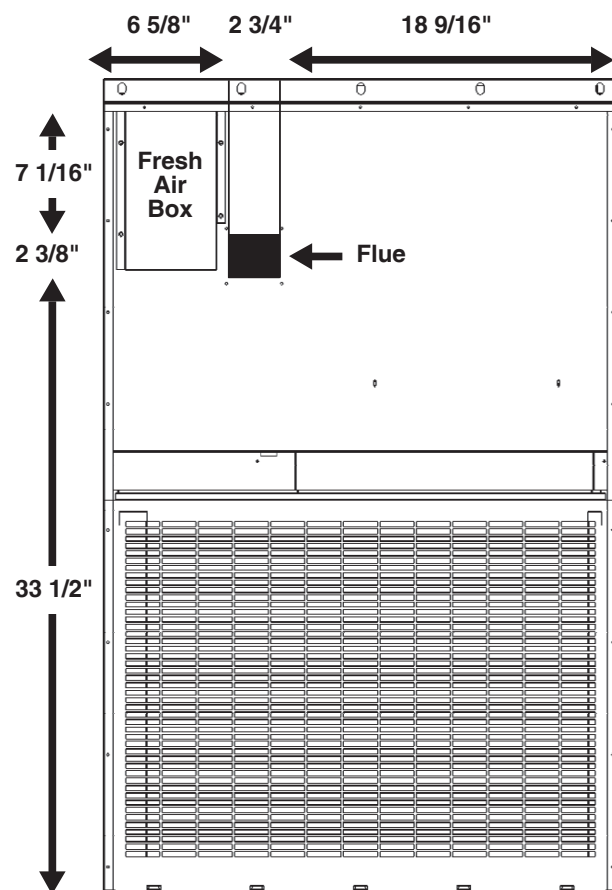


# Venting

The venting system is an integral part of the heater as shipped to you. Do not modify or add to the vent system. The heat system includes an exhaust blower. The blower draws the gas and air required for combustion through the heat exchanger, and forces the product of combustion to the outside. A chimney is not required. No special provisions are required for supplying combustion air.

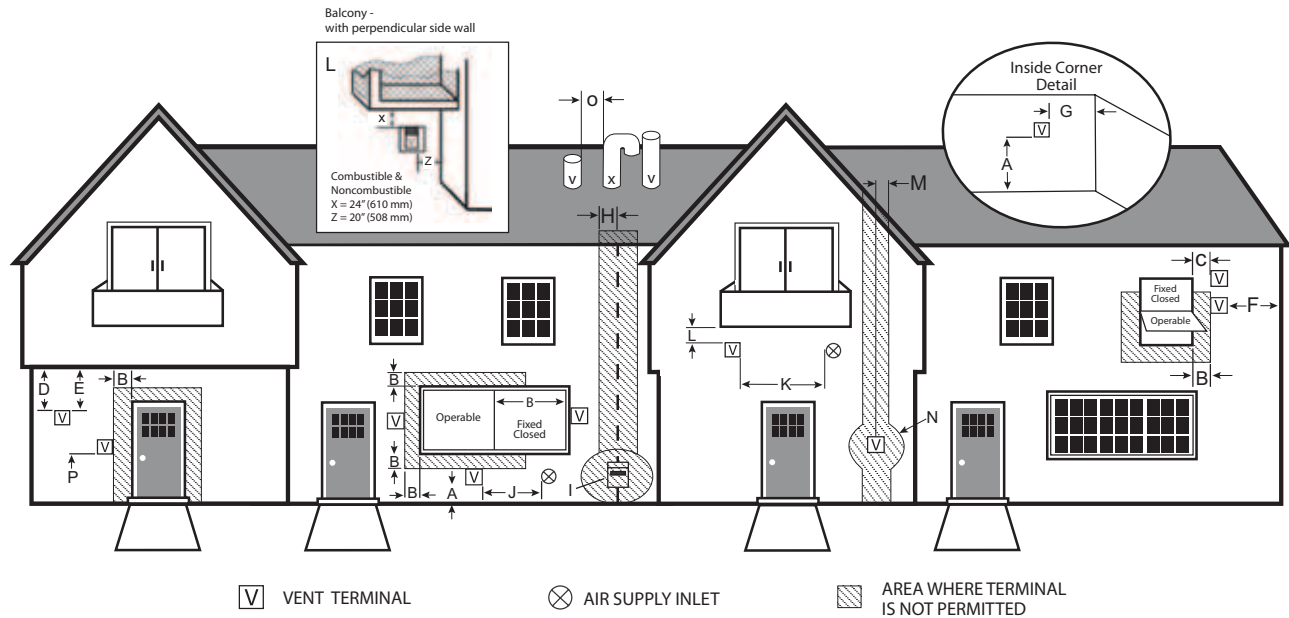
The vent of the unit is located at the front grille. Distances from adjacent public walkways, adjacent buildings, openable windows, and building openings must be consistent with the National Fuel Gas Code (NFPA 54/ANSI Z223.1) and/or (CAN/CGA-B149), as well as local codes.

When locating the heater, consider general space, heating requirements, and availability of gas and electrical supply. It is important that the exhaust vent will be directed to the outside atmosphere. The unit must be installed level. Do not install where flue products can be drawn into adjacent building openings (windows, fresh air intakes, etc.). The unit should not be located over public walkways or over an area where condensate or vapor could create a nuisance or hazard as well as effecting the operation of regulators, relief openings, or other equipment. Follow proper code for placement under overhangs, porches and vented soffits where condensate from combustion flues could build. Precautions must be taken to prevent degradation of building materials by flue products.



# Vent Termination Clearances

## Direct Vented Installations in the USA



Item	Clearance Description	US Installations (per ANSI Z223.1/NFPA 54)
A	Clearance above grade, veranda, porch, balcony or anticipated snow level	12 in.
B	Clearance to a window or door that may be opened	9 in. for appliances > 10,000 Btuh (3 kW) and ≤ 50,000 Btuh (15 kW), 12 in. for appliances > 50,000 Btuh (15 kW)
C	Clearance to a permanently closed window	For clearances not specified in ANSI Z223.1/NFPA 54, clearances shall be in accordance with local installation codes and the requirements of the gas supplier and the manufacturer's installation instructions. See Note 1
D	Vertical clearance to a ventilated soffit located above the terminal within a horizontal distance of 2 feet from the center line of the terminal	
E	Clearance to an unventilated soffit	
F	Clearance to an outside corner	
G	Clearance to an inside corner	
H	Clearance to each side of the center line extended above electrical meter or gas service regulator assembly	3 feet within 15 feet above the meter/regulator assembly.
I	Clearance to service regulator vent outlet	See Note 2
J	Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance	9 in. for appliances > 10,000 Btuh (3 kW) and ≤ 50,000 Btuh (15 kW), 12 in. for appliances > 50,000 Btuh (15 kW)
K	Clearance to a mechanical air supply inlet	3 feet
L	Clearance under a veranda, porch, deck, or balcony	Note 1 & 2
M	Clearance to each side of the center line extended above or below vent terminal of the furnace to a dryer or water heater vent, or other appliance's vent intake or exhaust	12 in.
N	Furnace combustion air intake clearance to a water heater vent, dryer or other types of appliance exhausts	3 feet
O	Clearance from a plumbing vent stack	3 feet
P	Clearance above paved sidewalk or paved driveway located on public property	See Note 1 & 2

**Note:** This table is based upon National codes for gas appliances, and are provided as a reference. Refer to Local codes which may supersede the standards and/or recommendations.

**Note 1:** Avoid venting under a deck or large overhang. Recirculation could occur and cause performance or system problems. Ice build-up may occur.

**Note 2:** For clearances not specified in ANSI Z223.1/NFPA 54, clearances shall be in accordance with local installation codes and the requirements of the gas supplier and the manufacturer's installation instructions.

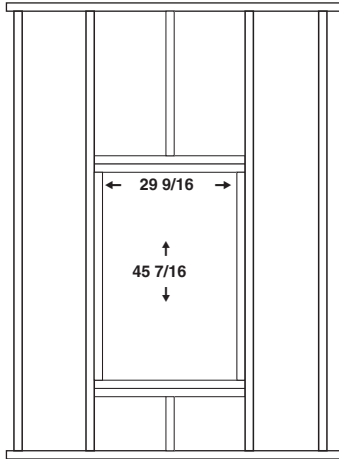
The vent for this appliance shall not terminate: **a.** Near the soffit vents or crawl space vents or other areas where condensate or vapor could create a nuisance or hazard or property damage; or **b.** Where condensate vapor could cause damage or could be detrimental to the operation of regulators, relief valves, or other equipment.

\* Specifications for venting subject to change without notice.

# Walls

## Wall Opening

The recommended wall opening size for the wall sleeve is 29 9/16 by 45 7/16.



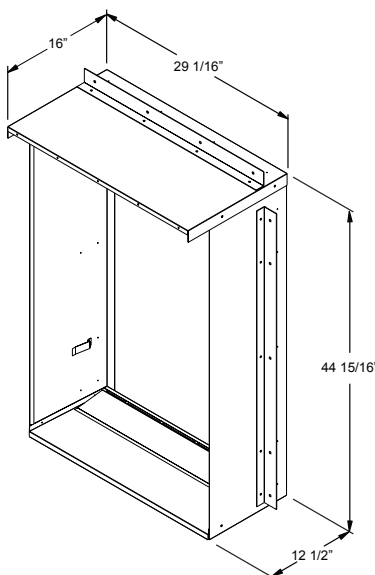
## Wall Sleeve (CPWS)

The wall sleeve is designed to provide an accurate opening during construction.

The wall sleeve must be field assembled and easily forms a box with mounting brackets, guides, and seals. It should be installed with a non-hardening caulk into the opening of the wall. The sleeve should be installed 3/4" past the exterior wall for proper weather sealing.

In different builds, the sleeve must be fastened to the supporting wall and not the finished wall.

## Wall Sleeve Dimensions

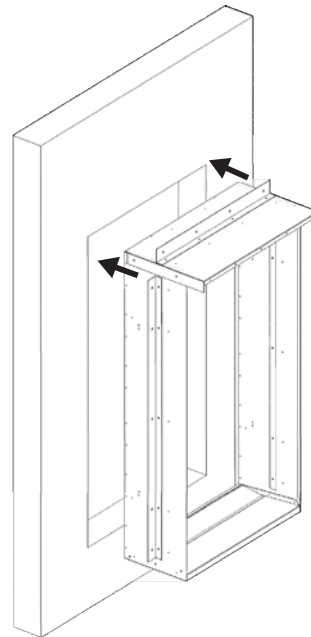


## Wall Construction

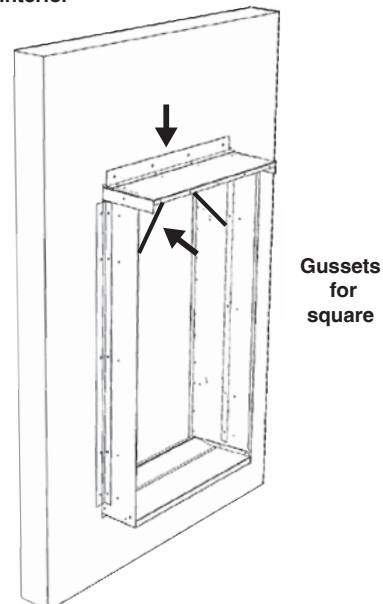
The wall sleeve is designed to support the unit but the wall itself must be adequate to support the unit. When this is an issue a support is needed at the base of the unit.

**For wood frame walls;** the sleeve can be adequately fastened with lag screws into a minimum of doubled two by fours and should be pressed against only solid wood material. Vibration pads can be used in light weight framing designs.

**For masonry wall applications;** a proper lintel should be installed to support the wall.



Fasten from interior





# Sealing of the Unit

## Water

Water is drained from the unit from channels and weep holes built into the unit itself. Different gaskets and seals are installed in the unit from the factory. The unit is designed to take on water from the outside of the unit mounted 3/4" passed the outside wall. **The water is directed thru weep holes so it can exit the unit.** Gaskets are installed around equipment to help manage the water and keep it to the external section.

If the optional wall sleeve is used, **caulk the spaces between the sleeve and the wall. Completely fill the clearance on all sides between the unit and the wall sleeve with a polyurethane foam sealant (follow manufacturer's suggested application manual).**

Provide the unit with support inside the building in the area of the return air opening. Slide the unit into the wall sleeve and fasten the unit to the sleeve with the five screws provided with the sleeve.

## Important:

**Weep Holes Must Be Left Open** when caulking and sealing the unit from the exterior.

## Air

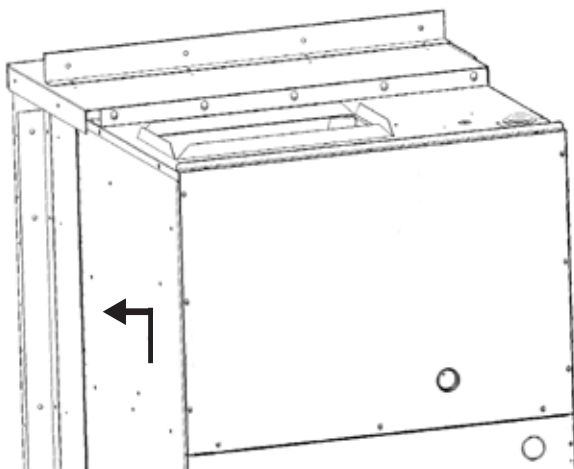
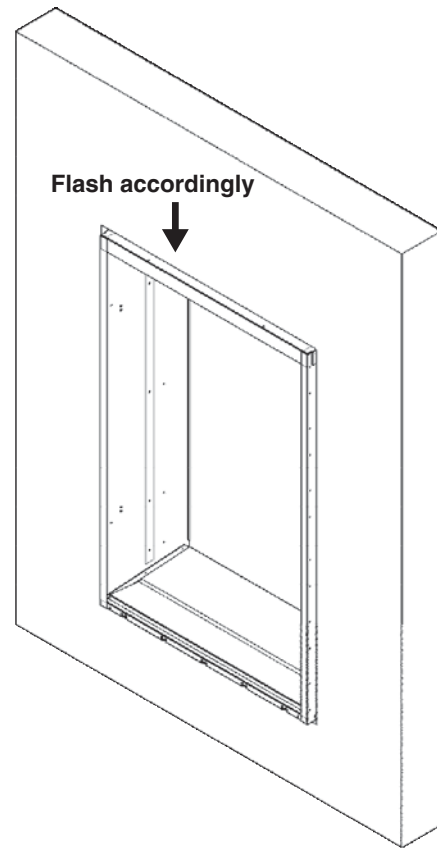
The unit is designed to take on winds of 40MPH. All inside gaskets protect from any outside air entering the inside of the unit.

## Ducts

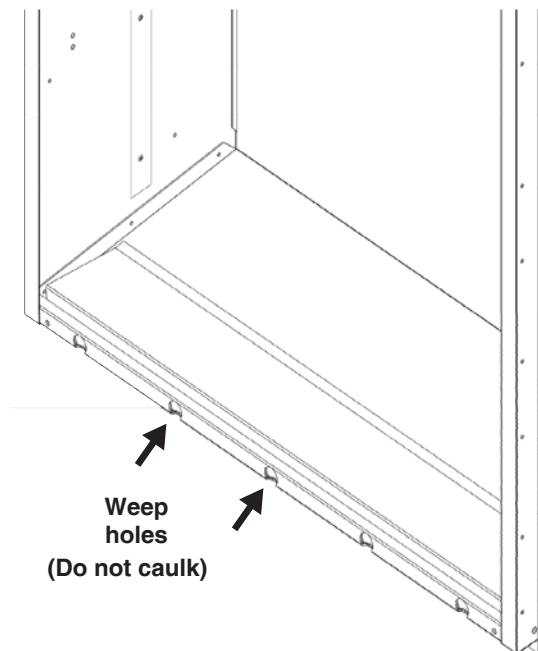
All ductwork and plenums are to be field installed and sealed with proper trade techniques. Follow Sheet Metal & Air Conditioning Contractors' National Association (SMACNA) Standards.

## Ventilation Air (Gas Models Only)

See page 10. No extra provisions need to be taken to seal flue vent.



Seal unit to sleeve with insulation



# Ductwork

## Supply

Note: always perform a proper heat loss calculation before specifying the furnace size. This ensures that the furnace is sized to adequately and economically heat the building while also providing the correct airflow for your application.

Central cooling and heating equipment is only as efficient as the duct system that carries the cooled or heated air. To maintain efficiency, comfort and good indoor air quality, it is important to have the proper balance between the air being supplied to each room and the air returning to the cooling and heating equipment.

Air circulated by the furnace to areas outside the space containing the furnace, the return air shall also be handled by duct(s) sealed to the furnace casing and terminating outside the space containing the furnace.

When this furnace is installed in a residential garage, it must be installed so the burners and ignition source are located no less than 18 inches above the floor. This is to reduce the risk of igniting flammable vapors which may be present in a garage. Also, the furnace must be located or protected to avoid physical damage by vehicles. Failure to follow these warnings can cause a fire or explosion, resulting in property damage, personal injury or death.

Duct leaks can create an unbalanced system and draw pollutants such as dirt, dust, fumes and odors into the home causing property damage. Fumes and odors from toxic, volatile or flammable chemicals, as well as automobile exhaust and carbon monoxide (co), can be drawn into the living space through leaking ducts and unbalanced duct systems causing personal injury or death ductwork is located in garages or off-garage storage areas - all joints, seams, and openings in the equipment and duct must be sealed to limit the migration of toxic fumes and odors including carbon monoxide from migrating into the living space. If air-moving equipment or ductwork is located in spaces containing fuel burning appliances such as water heaters or boilers - all joints, seams, and openings in the equipment and duct must also be sealed to prevent depressurization of the space and possible migration of combustion by-products including carbon monoxide into the living space.

The supply ductwork is to be field installed and sized properly for the cfm of the unit. Under sizing of plenums and ductwork can relate to excessive static pressure and poor airflow causing multiple problems to occur. When replacing a competitor's unit, the ductwork supply may require an alteration.

Proper air flow is required for the correct operation of this furnace. Too little air flow can cause erratic operation and can damage the heat exchanger. The duct system must carry the correct amount of air for heating and cooling.

Position the unit to minimize long runs and runs that require many turns and elbows.

Size the ducts according to acceptable industry standards and methods. The total static pressure drop (including evaporator coil, if used) of the entire system should not exceed 0.5" w.c. Be sure to have adequate space for unit filter.

**NOTE:** Airflow external static pressure measurements do not include filter or coil.

**IMPORTANT: Some high efficiency filters have a greater than normal resistance to air flow. This can adversely affect furnace operation. BE SURE TO CHECK AIR FLOW if using any filter other than the factory provided filter.**

## Return

**RETURN AIR TEMPERATURE MAINTAINED BETWEEN 55°F (13°C) AND 80°F (27°C)**

The return ductwork is to be installed in accordance with the National Fuel Gas Code 10.3.7.3 and 10.3.7.4. All Comfort Pack units to date are approved for an open bottom return so long as the unit is installed in accordance with National Fuel Gas Code 10.3.7.3 and 10.3.7.4 as well as local building and fire codes. If the unit is installed in a utility closet, it is recommended that louvers be in the door, to allow living space return air. The slotted filter door option is also recommended (but not necessary) when using an open return. This alleviates the requirement for a ducted return and maintains the owner's warranty. Please check with your code inspector if this option is right for your application.

Proper balance and sealing of the duct system improves the efficiency of the heating and air conditioning system and improves the indoor air quality of the home by reducing the amount of airborne pollutants that enter homes from spaces where the ductwork and / or equipment is located. The manufacturer and the U.S. Environmental Protection Agency's Energy Star Program recommend that central duct systems be checked by a qualified contractor for proper balance and sealing.

Comfort Pack Air Flow Data

MODEL	Static Pressure/CFM			
	0.1	0.2	0.3	0.4
CPG412	415-780	325-770	225-760	340-725
CPG418	415-780	325-770	225-760	340-725
CPG424	410-780	320-770	225-740	325-705
CPG430	410-780	320-770	225-740	325-700

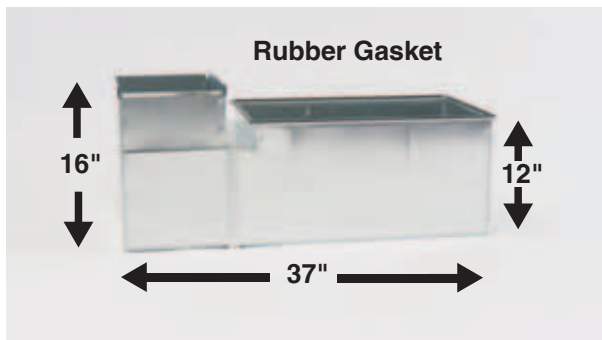
All units are set from the factory based on a .1 static. Setpoint may be different for heating and cooling.

**All specifications are subject to change without notice.**

# Comfort Pack Return Air Boot

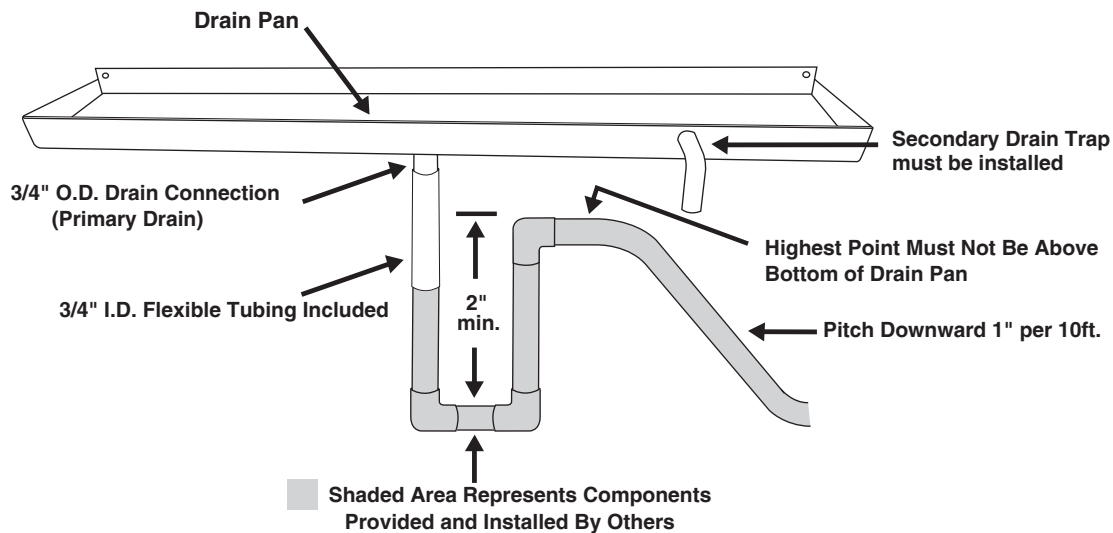
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**The Comfort Pack Return Air Boot** (Part# CPRB), is a simple 2 piece assembly which can be easily mounted. The Comfort Pack Return Air Boot is reversible for top left or top right return and is ready for a 16 x 10 standard slip and drive duct. Tight Seal with Rubber Gasket is included.



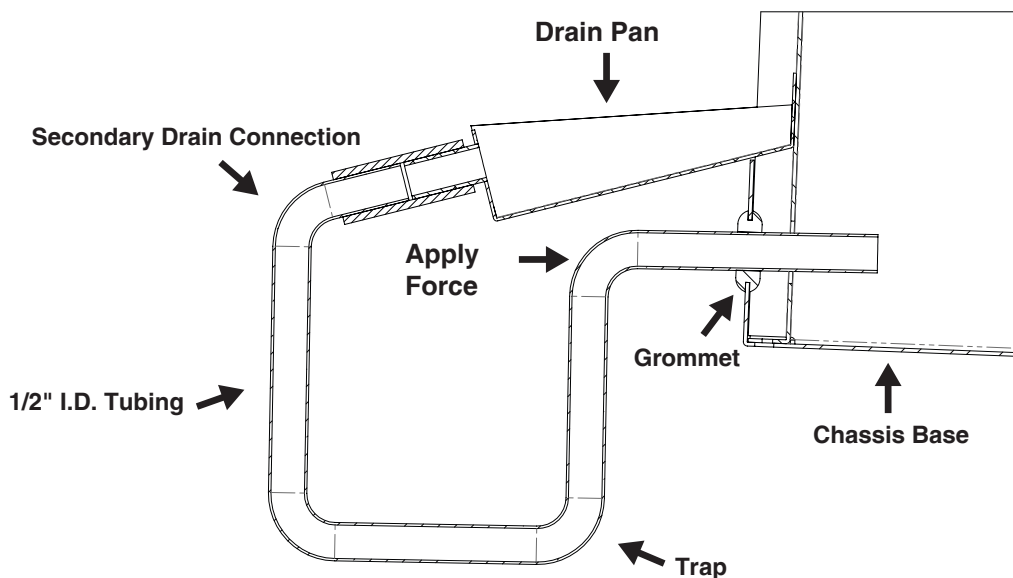
# Drainage

A drain pan is positioned underneath the evaporator coil to collect condensate. A 3/4" flexible tube included with the unit should be connected to the drain connection on the drain pan so it can be easily disconnected for chassis removal. A 2" deep trap should be installed close to the pan. The drain line should pitch downward at least 1" per 10' to an open building drain trap.



## Standard Secondary Drain

The Secondary Drain trap offers protection from overflow. The secondary drain feature is piped into the base of the unit and drains through the units weep holes outside.



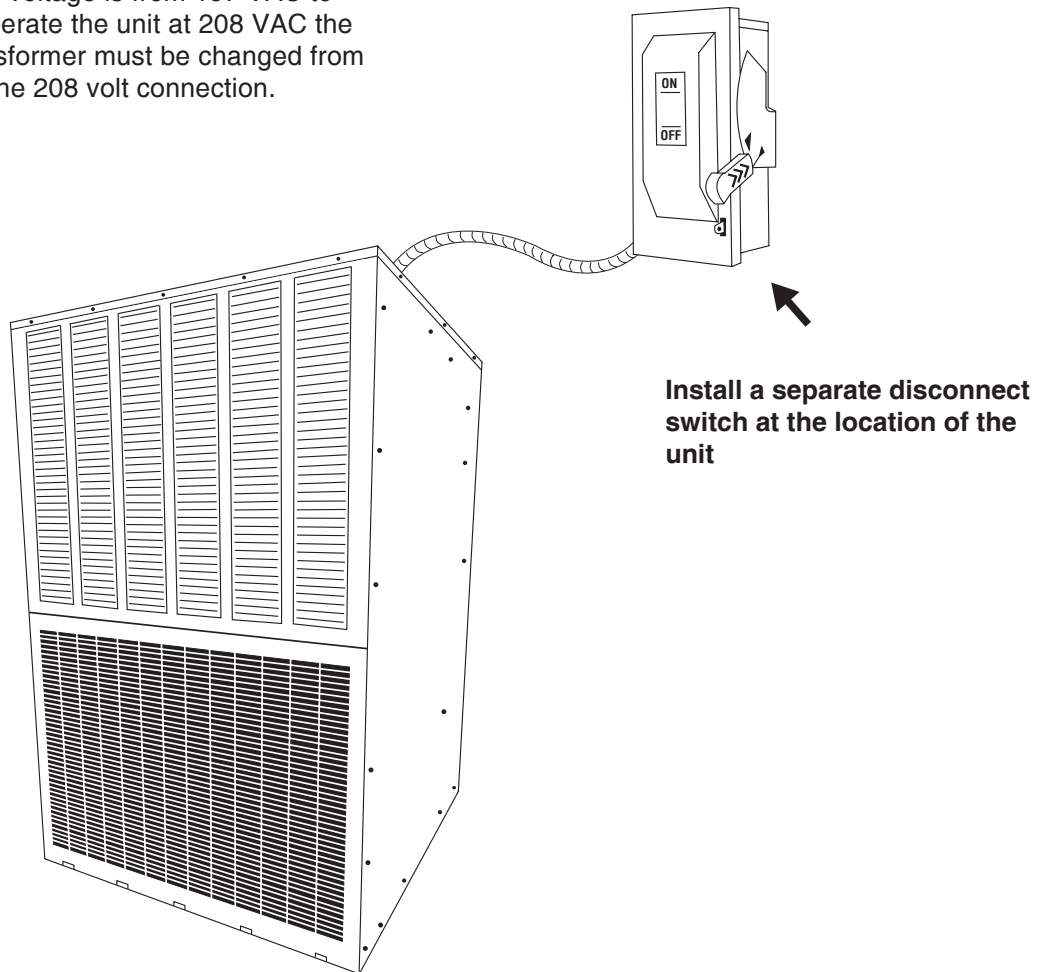


# Electrical

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## High Voltage

The unit is factory wired for 230 Volts AC Single Phase 60 Hertz. The operating voltage is from 197 VAC to 253 VAC. In order to operate the unit at 208 VAC the primary side of the transformer must be changed from 240 volt connection to the 208 volt connection.



## Low Voltage

The unit is supplied with a 40 VA transformer used to bring 24 VAC into the control section of the Comfort Pack. The control section is protected by a 3 amp fuse.

The Thermostat is a field installed component not purchased from National Comfort Products.

Comfort Pack Gas Electrical Data - All units 208/230/1 AC 60HZ											
MODELS	VOLTAGE	COMPRESSOR		INDOOR BLOWER MOTOR		OUTDOOR FAN MOTOR			TOTAL AMPS		MAXIMUM OVERCURRENT PROTECTOR
		RLA	LRA	HP	FLA	HP	FLA	LRA			
CPG41228-U	208-230/60/1	5.1	30	1/3	3.0	1/4	1.8	3.6	9.9	11.2	15
CPG41238-U	208-230/60/1	5.1	30	1/3	3.0	1/4	1.8	3.6	9.9	11.2	15
CPG41828-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	12.8	14.8	20
CPG41838-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	12.8	14.8	20
CPG41851-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	12.8	14.8	20
CPG41864-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	12.8	14.8	20
CPG42428-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	16.6	19.3	30
CPG42438-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	16.6	19.3	30
CPG42451-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	16.6	19.3	30
CPG42464-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	16.6	19.3	30
CPG43028-U	208-230/60/1	14.3	72.2	1/2	3.9	1/4	2.4	-	20.6	24.2	35
CPG43038-U	208-230/60/1	14.3	72.2	1/2	3.9	1/4	2.4	-	20.6	24.2	35
CPG43051-U	208-230/60/1	14.3	72.2	1/2	3.9	1/4	2.4	-	20.6	24.2	35
CPG43064-U	208-230/60/1	14.3	72.2	1/2	3.9	1/4	2.4	-	20.6	24.2	35

Performance Data - All Units 80% Thermal Efficiency						
MODELS	NOMINAL COOLING TONS	COOLING BTU	EER	HEATING BTU INPUT	HEATING BTU OUTPUT	SHIPPING WEIGHT
CPG41228-U	1	12,000	9.2	28,000	22,400	315
CPG41238-U	1	12,000	9.2	38,000	30,400	315
CPG41828-U	1.5	18,000	9.2	28,000	22,400	325
CPG41838-U	1.5	18,000	9.2	38,000	30,400	325
CPG41851-U	1.5	18,000	9.2	51,000	40,800	325
CPG41864-U	1.5	18,000	9.2	64,000	51,200	325
CPG42428-U	2	22,400	9.2	28,000	22,400	350
CPG42438-U	2	22,400	9.2	38,000	30,400	350
CPG42451-U	2	22,400	9.2	51,000	40,800	350
CPG42464-U	2	22,400	9.2	64,000	51,200	350
CPG43028-U	2.5	27,000	9.2	28,000	22,400	360
CPG43038-U	2.5	27,000	9.2	38,000	30,400	360
CPG43051-U	2.5	27,000	9.2	51,000	40,800	360
CPG43064-U	2.5	27,000	9.2	64,000	51,200	360

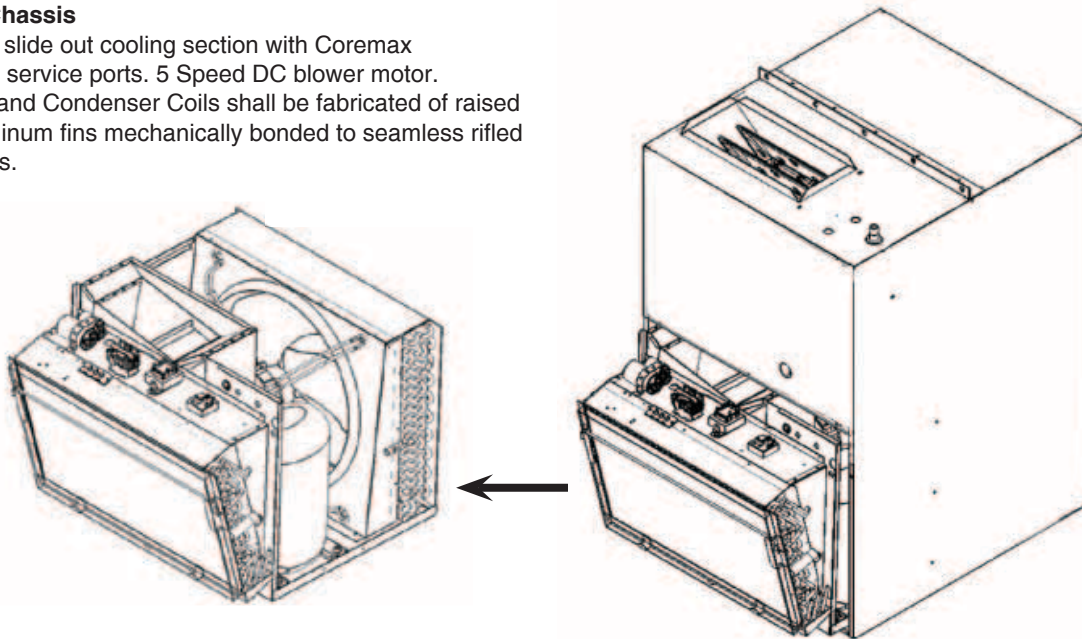
Comfort Pack Electric Electrical Data - All units 208/230/1 AC 60HZ														
MODELS	VOLTAGE	COMPRESSOR		INDOOR BLOWER MOTOR		OUTDOOR FAN MOTOR			TOTAL AMPS		MINIMUM CIRCUIT AMPS		MAXIMUM OVERCURRENT PROTECTOR	
		RLA	LRA	HP	FLA	HP	FLA	LRA	230V	208V	230V	208V	230V	208V
CPE41205-U	208-230/60/1	5.1	30	1/3	3.0	1/4	1.8	3.6	25.1	23.0	31.4	28.8	35	30
CPE41207-U	208-230/60/1	5.1	30	1/3	3.0	1/4	1.8	3.6	34.1	31.1	42.6	38.9	45	40
CPE41210-U	208-230/60/1	5.1	30	1/3	3.0	1/4	1.8	3.6	47.2	43.0	59	53.8	60	55
CPE41805-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	25.1	23.0	31.4	28.8	35	30
CPE41807-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	34.1	31.1	42.6	38.9	45	40
CPE41810-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	47.2	43.0	59	53.8	60	55
CPE42815-U	208-230/60/1	8.0	44	1/3	3.0	1/4	1.8	3.6	69.3	63.0	86.7	78.8	90	80
CPE42405-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	26.0	23.9	32.5	29.9	35	30
CPE42407-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	35.0	32.0	43.7	40	45	40
CPE42410-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	48.1	43.9	60.2	54.9	60	55
CPE42415-U	208-230/60/1	10.9	61.6	1/2	3.9	1/4	1.8	3.6	70.2	63.9	87.8	79.9	90	80
CPE43010-U	208-230/60/1	14.3	72.2	1/2	3.9	1/4	2.4	-	48.1	43.9	60.2	54.9	60	55
CPE43015-U	208-230/60/1	14.3	72.2	1/2	3.9	1/4	2.4	-	70.2	63.9	87.8	79.9	90	80

Performance Data							
MODELS	NOMINAL COOLING TONS	COOLING BTU	EER	HEATING NOMINAL BTU		HEATING NOMINAL KW	
				230V	208V	230V	208V
CPE41205-U	1	12,000	9.2	17,000	14,000	5	4.1
CPE41207-U	1	12,000	9.2	23,800	19,400	7	5.7
CPE41210-U	1	12,000	9.2	34,000	27,600	10	8.1
CPE41805-U	1.5	18,000	9.2	17,000	14,000	5	4.1
CPE41807-U	1.5	18,000	9.2	23,800	19,400	7	5.7
CPE41810-U	1.5	18,000	9.2	34,000	27,600	10	8.1
CPE41815-U	1.5	18,000	9.2	51,000	41,600	15	12.2
CPE42405-U	2	22,400	9.2	17,000	14,000	5	4.1
CPE42407-U	2	22,400	9.2	23,800	19,400	7	5.7
CPE42410-U	2	22,400	9.2	34,000	27,600	10	8.1
CPE42415-U	2	22,400	9.2	51,000	41,600	15	12.2
CPE43010-U	2.5	27,000	9.2	34,000	27,600	10	8.1
CPE43015-U	2.5	27,000	9.2	51,000	41,600	15	12.2

# Features

## Slide Out Chassis

Serviceable slide out cooling section with Coremax refrigeration service ports. 5 Speed DC blower motor. Evaporator and Condenser Coils shall be fabricated of raised lanced aluminum fins mechanically bonded to seamless rifled copper tubes.

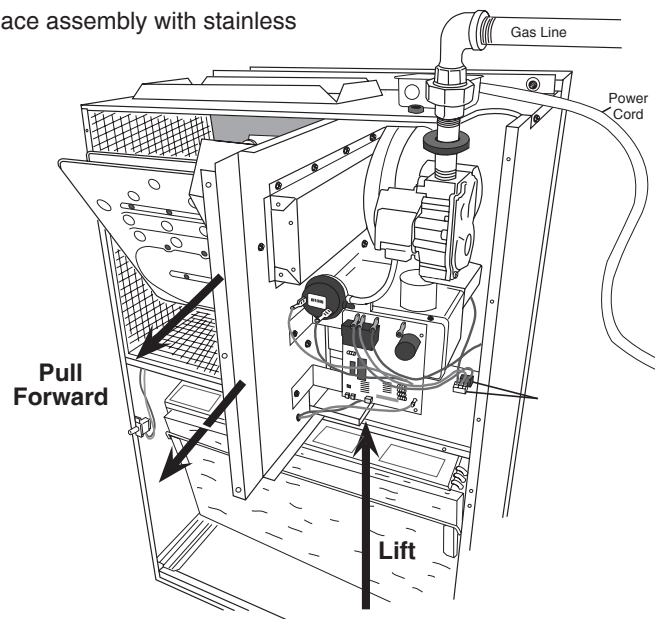


## Secondary Drain

Secondary condensate drain with trap piped to outdoor section of unit for drainage thru exterior weep holes providing extra protection and indication of primary drain blockages.  
(See page 16)

## Slide Out Furnace (Gas)

Serviceable slide out gas furnace assembly with stainless steel heat exchanger






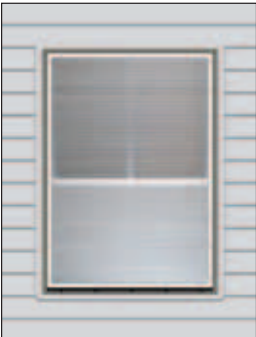

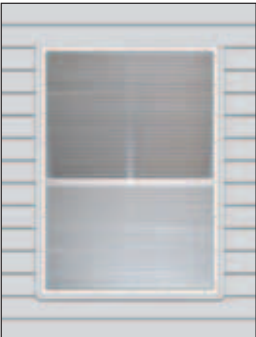




## Sequencing Control (Electric)

Two stage heat sequencing triac control board.

# Architectural Louver Grilles\*

Architectural Louver Grilles are available for all models.

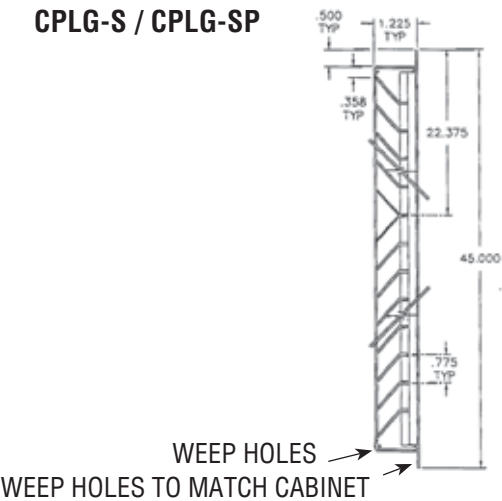
CPLG	CPLG-P	CPLG-S	CPLG-SP	CPSG-P
				
				
CPLG GRILLE SIZE: 28" W x 43" H	CPLG-P GRILLE SIZE: 28" W x 43" H	CPLG-S GRILLE SIZE: 29 9/16" W x 45" H	CPLG-SP GRILLE SIZE: 29 9/16" W x 45" H	CPSG-P GRILLE SIZE: 29 9/16" W x 45" H
Brushed Aluminum Clear Finish sized to fit the unit	Painted Finish Standard Colors sized to fit the unit	Brushed Aluminum Clear Finish sized to fit CPWS Wall Sleeve	Painted Finish Standard Colors sized to fit CPWS Wall Sleeve	Custom Finish Stamped, bottom and top louvered, powdered coat painted sized to fit CPWS Wall Sleeve
Wall Sleeve border <b>is visible</b> curb side (see photos).	With this option, Wall Sleeve border <b>is visible</b> curb side (see photos).	With this option, Wall Sleeve border <b>is not visible</b> curb side (see photos).	With this option, Wall Sleeve border <b>is not visible</b> curb side (see photos).	With this option, Wall Sleeve border <b>is not visible</b> curb side (see photos). Go to <a href="http://Ralcolor.com">Ralcolor.com</a> when selecting colors for this finish.
<b>Comfort Pack Wall Sleeve:</b> CPWS (29 1/16" W x 44 15/16" H x 16" D) - <b>Rough Opening:</b> (29 9/16" W x 45 7/16" H) <b>Comfort Pack Wall Sleeve Adapter:</b> CPWSA (28 1/4" W x 6 3/8" H x 16 5/8" D)				

S = Sleeve Fit  
P = Painted

\*Can be color matched to almost any color, consult factory. Note: All specifications are subject to change without notice.

Outdoor grilles provided by others must be approved by National Comfort Products to maintain unit performance and warranty coverage.

CPLG-S / CPLG-SP







*A Division of National Refrigeration & Air Conditioning Products, Inc.*

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## COMFORT PACK LIMITED WARRANTY

1. National Comfort Products warrants to its customers that its product shall be free from defects in material and workmanship under normal use and regular service and maintenance as follows:

**HEAT EXCHANGERS** (Gas units only): for ten years from the date of original installation.

**ALL OTHER PARTS:** For all other parts except the Heat Exchanger, for five years from the date of original installation.

Customer must register the product within 60 days of purchase. If Customer cannot adequately document date of installation, then, for purposes of determining the warranty period, the date of installation shall be 60 days from the date of purchase.

2. This warranty does not extend to any damages or losses due to misuse, accident, abuse, neglect, normal wear and tear, negligence (other than National Comfort's), unauthorized modification or alteration; use beyond rated capacity; unsuitable power sources or environmental conditions; improper installation, repair, handling, maintenance or application; damage as a result of fire, wind, floods, lightning, or corrosive conditions; or any other cause not the fault of National Comfort. By way of example and without limitation, the following do not constitute a defect in workmanship and materials and are not covered by this warranty: slugging of liquid refrigerant or oil, unstable line voltage, lightning, operating without proper lubrication, and operating without factory provided safeties. Any installation that impairs or impedes air flow negatively impacts performance and causes premature equipment failure that voids this warranty. For example, installation behind a brick façade or the addition of a brick pattern façade, i.e. pigeon holes impedes air flow and shall void this warranty. No warranty will apply if the input section exceeds the rated input as indicated on the nameplate by more than 5%, or if the heat section in the judgement of the manufacture has been subject to misuse, negligence, accident, corrosive atmospheres, atmospheres contacting any contaminant (silicone, aluminum oxide, etc.), excessive thermal shock, physical damage, impact, abrasion, unauthorized alterations, or operation contrary to the manufacture's printed instructions, or if the serial number has been altered, defaced, or removed.

### 3. SOLE WARRANTY

The warranties identified herein constitute National Comfort's sole and exclusive warranties with respect to the goods and are in lieu of and exclude all other warranties, express or implied, arising by operation of law or otherwise, including without limitation, merchantability and fitness for a particular purpose whether or not the purpose or use has been disclosed to National Comfort in specifications, drawings or otherwise, and whether or not National Comfort's goods are specifically designed and/or manufactured by National Comfort for Customer's use or purpose.

### 4. LIMITATION OF REMEDY

The sole and exclusive remedy for breach of any warranty hereunder (other than the warranty provided herein) shall be limited to repair, replacement, credit or refund of the purchase price to distribution as set forth herein.

National Comfort is not responsible for any other item including but not limited to local transportation, freight, removal of any compressor or part, any labor associated therewith, service or diagnosis calls, refrigerant, or costs for returning any defective compressor or part.

### 5. LIMITATION OF WARRANTY

NATIONAL COMFORT MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, RELATED TO THE GOODS, INCLUDING ANY WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. NATIONAL COMFORT SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES FROM ANY CAUSE WHATSOEVER, INCLUDING, WITHOUT LIMITATION, LOSS OF USE, COMMERCIAL PROFITS, OR CUSTOMER GOODWILL, AND ANY OTHER CLAIMS BASED ON CONTRACT OR TORT, WHETHER OR NOT ARISING FROM NATIONAL COMFORT'S NEGLIGENCE.

National Comfort shall not be liable for damages caused by delay in performance and the remedies of Customer set forth in this agreement are exclusive. In no event, regardless of the form of the claim or cause of action (whether based in contract, infringement, negligence, strict liability, other tort or otherwise) shall National Comfort's liability to Customer and/or its customers exceed the price paid by Customer for the specific goods or portion of the goods provided by National Comfort giving rise to the claim or cause of action, and Customer shall indemnify and hold harmless National Comfort for any damages incurred by National Comfort in excess thereof. Customer agrees that in no event shall National Comfort's liability to Customer and/or its customers extend to include incidental, consequential, or punitive damages.

Continued on next page

The term “consequential damages” shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to capital or equipment. Customer agrees that all instructions and warnings supplied by National Comfort will be passed on to those persons who use the Goods. National Comfort’s Goods are to be used in their recommended applications and all warning labels adhered to the Goods by National Comfort are to be left intact.

It is expressly understood that any technical advice furnished by National Comfort before or after delivery in regard to the use or application of the Goods is furnished without charge, and National Comfort assumes no obligation or liability for the advice given or results obtained, all advice being given and accepted at Customer’s sole risk.

## 6. WARRANTY PROCEDURE

For All Warranty Claims. Customer must register the product with National Comfort within 60 days from purchase. Failure to timely register the product may void the warranty. Any claim for warranty shall be made within thirty days of discovery and in any event, within thirty days from removal of the compressor or part from the unit. Failure to make a timely claim shall void the warranty. Prior authorization from National Comfort is required for all warranty claims. Any claim for warranty must be first reported to National Comfort in writing specifying the unit, serial number, date of purchase and date of original installation. Customer shall also request a Return Material Authorization (“RMA”) from National Comfort to initiate the warranty claim process. Issuance of an RMA by National Comfort is not an acknowledgment that the defect is covered by this Warranty. Any replacement compressor or part is warranted for the original product warranty, or for one year from the date of shipment of the replacement compressor/part, whichever is later.

**A. Heat Exchangers.** In addition to the above-reference requirements, customer is also required to purchase a replacement heat exchanger and return the original heat exchanger to National Comfort at National’s discretion, freight prepaid. If National Comfort determines that there is a defect in material or workmanship in the heat exchanger that is covered by this Warranty, then National Comfort shall credit Customer for the cost of the new replacement heat exchanger. If National Comfort determines that the defect in material or workmanship is not covered by this Warranty, then no credit shall be issued. A copy of the invoice of the replacement heat exchanger and completed RMA must accompany the original heat exchanger for which warranty is claimed. National Comfort reserves the right to request additional documentation. The failure to follow this procedure shall render the warranty void. .

**B. Compressors.** In addition to the above-referenced requirements, Customer is also required to purchase a replacement compressor and return the original compressor to National Comfort at National’s discretion. If the defect is reported to National Comfort within one year from the date of original installation or within 20 months from the date of manufacture of the compressor (as determined by the compressor serial number), whichever occurs first, then Customer may take the compressor to any Authorized Copeland Distributor for replacement of said compressor. If the defect is reported to National Comfort after one year from the date of installation or after 20 months from the date of manufacture of the compressor (as determined by the compressor serial number), whichever occurs first, but before the expiration of five years from the date of installation, then the compressor should be returned to National Comfort at National’s discretion and Customer shall purchase a new compressor. If National Comfort determines that there is a defect in material or workmanship that is covered by this Warranty, then National shall credit Customer for the cost of the new replacement compressor. If National Comfort determines that the defect in material or workmanship is not covered by this Warranty, then no credit shall be issued. A copy of the invoice of the replacement compressor and completed RMA must accompany the compressor. National Comfort, at its sole discretion, may also require Customer to supply the compressor tag. The failure to follow this procedure shall render the warranty void.

**B. Other Parts.** In addition to the above-referenced requirements, Customer is required to purchase a replacement part for the original part for which Customer is making a warranty claim. The original part for which warranty is claimed is to be returned to National Comfort at National’s discretion, freight prepaid. If National Comfort determines that there is a defect in material or workmanship in the part that is covered by this Warranty, then National Comfort shall credit Customer for the cost of the new replacement part. If National Comfort determines that the defect in material or workmanship is not covered by this Warranty, then no credit shall be issued. A copy of the invoice of the replacement part and completed RMA must accompany the original part for which warranty is claimed. National Comfort reserves the right to request additional documentation. The failure to follow this procedure shall render the warranty void.

## 7. SHIPPING INSTRUCTIONS

**A. Compressors.** Returned compressors must be totally secured by use of shipping lugs taken from the replacements compressors and clearly marked with the RMA number. Do not use tape, rags or putty to seal the compressor. Line connections should be sealed with rubber plugs. All scroll compressors must be securely bolted, banded, and stretch wrapped to a skid in the upright position.

**B. Parts.** All other returned parts must be securely packaged and clearly marked with its corresponding RMA number provided from NCP.



## Notes



**HEATING & A/C EQUIPMENT**

**National Comfort Products**

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