

EL296DFE

ELITE® SERIES

Downflow - Two-Stage Heat - Constant Torque Blower - 60 Hz

RESIDENTIAL PRODUCT SPECIFICATIONS

Bulletin No. 210648 April 2021 Supersedes November 2020

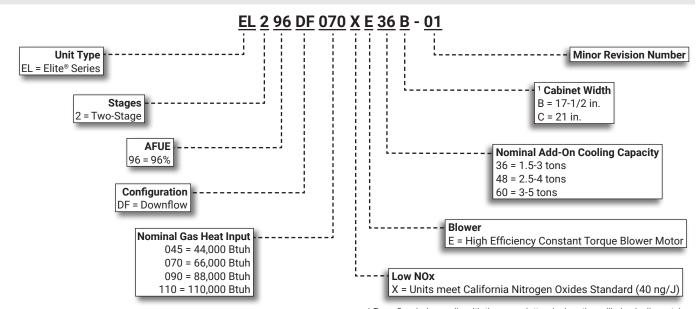






AFUE - Up to 96% Input - 44,000 to 110,000 Btuh Nominal Add-on Cooling - 1.5 to 5 Tons

MODEL NUMBER IDENTIFICATION



¹ Downflow indoor coils with the same letter designation will physically match the furnace **supply air opening**.

FEATURE HIGHLIGHTS

- 1. Lennox Duralok Plus™ Heat Exchanger
- 2. Secondary Heat Exchanger
- 3. Inshot Burners
- 4. Two-Stage Gas Control Valve
- 5. Two-Speed Combustion Air Inducer
- 6. SureLight® Integrated Furnace Control
- 7. Variable Speed Direct Drive Blower
- 8. Insulated Cabinet
- 9. Safety Interlock Switch
- 10. Gas Piping And Electrical Inlets



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APPROVALS AND WARRANTY

APPROVALS

- AHRI Certified
- · CSA International Certified
- Tested and rated according to US DOE test procedures and FTC labeling regulations
- Units are approved for installations from 0 4500 ft.
- ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment
- ISO 9001 Registered Manufacturing Quality System
- · Blower data from unit tests conducted in Lennox Laboratory air test chamber

California Only

- These furnaces <u>do not meet</u> the South Coast Air Quality Management District (SCAQMD) Rule 1111 and San Joaquin Valley Air Pollution Control District (SJVAPCD) Rule 4905 NOx emission limit (14 ng/J) and cannot be installed within the SCAQMD and SJVAPCD areas
- These furnaces are approved by the California Energy Commission and meets California Nitrogen Oxides Standard (NOx) limits of 40 ng/J

WARRANTY

- Duralok Plus[™] Aluminized Steel Heat Exchanger:
 - · Limited lifetime (twenty year transferable) in residential applications
 - · Limited ten years in non-residential applications
- · All other covered components:
 - · Limited five years in residential installations
 - Limited one year in non-residential installations

NOTE - Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

FEATURES

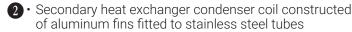
APPLICATIONS

- Input capacities of 44,000, 66,000, 88,000 and 110,000 Btuh
- Energy efficiency (AFUE) up to 96%
- Compact cabinet for downflow applications without any internal modifications to the unit
- Lennox add-on indoor coils, high-efficiency air cleaners and humidifiers can easily be added to furnace
- Shipped factory assembled with controls installed and wired
- Each unit factory test operated to ensure proper operation

HEATING SYSTEM



- Lennox developed heat exchanger assembly consists of primary heat exchanger and secondary condenser coil assembly
- · Main multi-pass crimped seam design clamshell type
- · Constructed of heavy-gauge, aluminized steel
- Designed for normal expansion and contraction with maximum efficiency and minimum resistance to air flow



- · Coil is factory tested for leaks
- Condensate drain header box assembly located on front of coil
- Compact size permits low overall design of furnace cabinet
- Laboratory life cycle tested in excess of industry standards

Lennox Designed Header Box

- Header box on end of condenser coil collects flue condensate for disposal through condensate drains
- Drains are located on each side of the cabinet for easy field installation of condensate drain trap
- · Only one drain is used, the other drain is sealed
- Condensate drain trap is included with the unit for field installation

HEATING SYSTEM (continued)

Lennox Designed Flue Condensate Trap Assembly

- Field installed outside the conditioned air stream
- · Assembly can be mounted on either side of cabinet
- See Installation Instructions
- 90° street elbow furnished for ease of drain trap installation
- Drain connection can be made with field provided PVC pipe, PVC coupling, or vinyl tubing with hose clamp
- Drain cap on trap allows easy cleaning and winterizing

Inshot Burners

- Aluminized steel inshot burners provide efficient, troublefree operation
- Burner venturi mixes air and gas in correct proportion for proper combustion
- Burner assembly can be removed from the unit as a single component for ease of service

SureLight® Hot Surface Ignitor

- Tough, reliable, long-life, trouble-free performance.
- · Silicon nitride ignitor.
- Cemented to steatite block for protection against current leakage.
- Ignition leads are constructed of nickel plated copper and are enclosed in high temperature Teflon[®] insulation for dependable operation.

Two-Stage Gas Control Valve

 24 volt redundant combination two-stage gas control valve combines manual shut off switch (On-Off), automatic electric valve (dual) and gas pressure regulation into a compact combination control.

5 Two-Speed Combustion Air Inducer

- Permanent split capacitor (PSC), heavy duty blower prepurges heat exchanger and safely vents flue products
- Operates only during heating cycle
- Dual pressure switches (low fire/high fire) prove blower operation before allowing gas valve to open

Flame Rollout Switches (2)

- Factory installed on burner box
- Switch provides protection from abnormal operating conditions
- Manual reset

Limit Control

- · Primary limit is accurately located on vestibule panel
- Automatic reset

Optional Accessories

High Altitude Orifice Kits

- Required on all units for proper unit operation at altitudes from 7501 to 10,000 ft.
- Available for natural gas and LPG/propane

High Altitude Pressure Switch Kit

 Required for proper unit operation on installations above 4500 ft.

Natural Gas to LPG/Propane Conversion Kit

 Required for field changeover from natural gas to LPG/ Propane

LPG/Propane to Natural Gas Conversion Kit

 Required for field changeover from LPG/Propane to natural gas

DIRECT VENT / NON-DIRECT VENT SEALED COMBUSTION SYSTEM

- Furnace features a "sealed combustion" system and can be installed in either Direct Vent or Non-Direct applications.
- In Direct Vent applications, combustion air is supplied from outdoors and flue gases are discharged outdoors.
- In Non-Direct Vent applications, combustion air is supplied from indoors and flue gases are discharged outdoors.

NOTE - Lennox has approved the use of DuraVent® PolyPro® and Centrotherm InnoFlue® manufactured vent pipe and terminations as an alternative to PVC vent pipe. Must be ordered separately.

Tested and listed to the ULC S636 standard in Canada.

The polypropylene venting system must follow the uninsulated and unconditioned space vent lengths listed in the table on 10.

Refer to the Installation Instructions for additional details.

DIRECT VENT / NON-DIRECT VENT SEALED COMBUSTION SYSTEM (continued)

Flue Coupling

- Assists with exhaust flue piping connection and servicing
- · Includes flexible one 2 inch rubber coupling and two adjustable bands
- · Approved for all Lennox 90% furnaces

Termination Kits

- Facilitates installation of combustion air intake pipe and flue exhaust pipe
- Refer to venting table in this bulletin to determine pipe size needed and proper termination kit required
- Certain Termination Kits are certified to ULC S636 standard for use in Canada only
- · See Optional Accessories table and dimension drawings

Concentric - Direct Vent Applications

- 2 or 3 inch kit contains concentric termination assembly, reducer bushing and 45 degree elbow
- 2 inch kit for -045-070 models contains an outdoor exhaust accelerator
- Kit requires single hole penetration of roof or wall for installation
- · Roof Termination Flashing Kit is available for use with 2 inch Kits
- · CSA certified

Flush-Mount

- Kit contains flush-mount termination, accelerator, mounting template and hardware
- Kit may be used with 2, 2-1/2 or 3 in. pipe

Wall Assembly

Close Couple (US Only) - Direct Vent Applications

- 2 or 3 inch kit consists of close-couple, side-by-side PVC piping with galvanized steel wall cover plate for sealing and isolating piping penetration of the wall
- Piping spacing and length is sized for proper wall installations
- CSA certified

Close Couple WTK (Canada Only) - Direct Vent **Applications**

• 2 or 3 inch kit contains one insulated faceplate, one insulated exhaust pipe, elbow and fittings. Certified to ULC S636 standard

NOTE - Maintain a maximum of 6 inches between the inlet and outlet openings in the installation of the pipes.

Roof Termination Flashing Kit

- For vertical venting through a roof
- 2 or 3 inch kit contains two neoprene rubber roof flashings
- Vent pipe and insulation not furnished
- Flashing Kit can also be used with Concentric Vent Termination Kits used in vertical venting rooftop applications

CONTROLS

SureLight® Integrated Furnace Control

- Contains all necessary controls and relays to operate furnace
- Combustion air inducer is operated by the integrated furnace control
- Prior to ignition, a pre-purge cycle for 15 seconds is initiated
- After the main burners are turned off, a post-purge cycle for 5 seconds is run
- · Safety Controls Flame sensor utilizes flame rectification for safe and reliable operation
- · Should loss of flame occur, the integrated furnace control will initiate 4 re-attempts at ignition before locking out unit operation for 60 minutes
- Watchguard type circuit automatically resets ignition controls after one hour of continuous thermostat demand after unit lockout, eliminating nuisance calls for service
- Thermostat Control For optimal performance, the use of a high-quality, digital two-stage thermostat with adjustable settings for first stage/second stage, on/off differentials and adjustable stage timers is recommended

Furnace Input Staging Options

| Thermostat Type | Input Staging Available |
|-----------------------------|---|
| Two-Stage (Conventional) | Determined by thermostat demand |
| | 2nd-stage heat ON delay (DIP switch setting) OFF - 7 minutes (factory) ON - 12 minutes |

- · Display LED Seven segment LED displays alphanumeric information related to diagnostics as well as system operation and status
- · Diagnostic codes are held in non-volatile memory, immune from power interruptions
- Holds up to ten diagnostic codes in order of occurrence for recall on demand
- Port on blower door allows for easy viewing

DIP Switch Settings

- Select Thermostat Used Single-Stage or Two-Stage
- Two selectable second stage recognition times (7 and 12 minutes) are available on the control when the furnace is used with a single-stage thermostat

CONTROLS (continued)

- When used with a two-stage thermostat, furnace will only initiate second stage operation with a second stage thermostat demand
- Second Stage Delay Used with single-stage thermostat only. See Furnace Input Staging Options table for details
- Blower On/Off Time (Heating) Blower on time is fixed at 30 seconds, blower off time is adjustable from 60, 90, 120 and 180 seconds (factory setting 90 seconds)
- Blower On/Off Time (Cooling) For air-conditioning applications, blower "on" time is 2 seconds following thermostat demand for cooling
- Blower "off" time in cooling mode is adjustable from 2 or 45 seconds (factory setting 45 seconds)
- For air-conditioning applications, blower is automatically energized on thermostat demand for cooling
- · Heating Speeds Low Heat or High Heat
- Cooling Speeds Low Cool or High Cool
- Continuous Speed Low Heat (factory setting) adjustable
- **Dehumidification** A jumper on the control must be clipped to enable dehumidification
- A humidity controlling thermostat or device is also required
- During a call for cooling, air volume is automatically reduced, forcing humidity removal by the air conditioner or heat pump system (single stage units or two-stage units running at 2nd stage)
- After the humidity has reached the desired set-point the cooling air volume returns to its designed rate
- Dual-Fuel Operation A jumper on the control must be clipped to enable operation with a single or two-stage heat pump
- The indoor blower is started without delay when a call for heat is received
- Two-Stage Compressor Operation A jumper on the control must be clipped to enable operation with a two-stage compressor
- Accessory Terminal One accessory terminal furnished for additional power supply requirements for 120 volt (less than 1 amp) powered air cleaners
- One un-powered pair of contacts are provided for humidifier connections and may be connected to 24V or 120V
- · Control is factory installed in the unit control box

24 Volt Transformer

- Furnished and factory installed in control box
- · 40VA transformer has circuit breaker wired in series

Field Wiring Make-up Box

- · Furnished for line voltage wiring
- · Factory installed internally on left side of furnace
- Box may be installed internally or externally on either side of furnace

Optional Accessories

iComfort® E30 Smart Wi-Fi Thermostat

- Wi-Fi enabled, electronic 7-day, universal, multi-stage, programmable, touchscreen thermostat
- · 3 Heat/2 Cool
- · Auto-changeover
- Controls dehumidification during cooling mode and humidification during heating mode



- Offers enhanced capabilities including humidification / dehumidification / dewpoint measurement and control, Humiditrol® control, and equipment maintenance reminders
- Easy to read 7 in. color touchscreen (measured diagonally)
- LCD display with backlight shows the current and set temperature, time, inside relative humidity, system status (operating mode and schedules) and outside temperature (optional outdoor sensor required)
- Smooth Setback Recovery starts system early to achieve setpoint at start of program period
- Compressor short-cycle protection (5 minutes)
- Up to four separate schedules are available plus Schedule IQ™
- One-Touch Away Mode A quick and easy way to set the cooling and heating setpoints while away
- Smart Away[™] Uses geo-fencing technology to determine when the homeowner is within a predetermined distance from the home to operate the system when leaving, away and arriving
- Wi-Fi remote monitoring and adjustment through a home wireless network for desktop PCs, laptops and apps for smartphones or tablets
- Smart home automation compatible with Apple HomeKit™, Amazon Alexa®, Google Assistant and IFTTT
- Service Dashboard features online real-time monitoring of installed iComfort® Communicating systems
- High Definition Color Display and Subbase, Smart Hub Controller, wallplate (for retrofit installations) furnished for easy installation
- See the iComfort® E30 Smart Wi-Fi Thermostat Product Specifications bulletin for more information

Remote Outdoor Temperature Sensor

- iComfort® E30 Smart Thermostat
- When installed outdoors, sensor allows thermostat to display outdoor temperature



- **NOTE** Sensor is required for Enhanced Dehumidification Control (EDA) applications.
- **NOTE** The outdoor sensor is furnished as standard with iComfort® Communicating outdoor units, optional for conventional units.

Thermostat

- · Thermostat is not furnished with unit
- See Lennox Price Book for selection

CONTROLS (continued)

Furnace Twinning Kit

- Required to operate two furnaces simultaneously.
- Kit consists of twinning relays, guick connect terminals and mounting hardware
- Used for two-stage heating/single-stage cooling with either a single-stage or two-stage thermostat

Night Service Kit

- Contains most commonly used service parts
- Furnace control
- · Gas valve
- Ignitor
- Transformer
- Flame sensor
- · Service manual

Blower Relay Kit

- · For use with two-stage outdoor units
- · Allows furnace blower speed changes when matched with two-stage air conditioners or heat pumps

BLOWER

- · Direct drive blower
- Statically and dynamically balanced
- Resiliently mounted
- Blower assembly easily removed for servicing

Power Saver™ Constant Torque Blower Motor

- DC Brushless Motor
- High Efficiency Constant Torque
- ECM (Electronically Commutated Motor)
- Motor is programmed to provide constant torque at each of the selectable speeds
- Motor is controlled by the SureLight® Integrated Furnace Control
- · Blower speeds are easily changed on the integrated furnace control. See Blower Data tables

CABINET

- Low-profile, narrow width allows easy installation
- Heavy-gauge, cold rolled steel construction
- · Pre-painted cabinet finish
- Flanges provided on supply air opening for ease of plenum connection or alignment with indoor coil
- Insulated with foil faced insulation on sides and back of heating compartment and mat faced insulation in blower compartment.
 - Sealed blower compartment
 - Inner blower compartment access panel seals blower compartment from air leakage
 - · Cabinet door can be removed without any tools
 - · Complete service access
 - Safety interlock switch automatically shuts off power to unit when blower compartment access door is removed



 Gas piping and electrical inlets are provided in both sides of cabinet

Coil Match-Up

• All Lennox downflow indoor coils will physically match the furnace supply air opening with the same letter designation (A, B, C, D) as in the furnace model number

Low Leakage Cabinet

· All models have less than 2% air leakage and meet ANSI/ASHRAE Standard 193-2010 "Method of Test for Determining the Air Tightness of HVAC Equipment"

Optional Accessories

Condensate Drain Heat Cable Kits

- Self-limiting wattage heat cable prevents condensate drain from freezing in unconditioned areas
- · Available in 6 or 24 ft. lengths

Crawl Space Vent Drain Kit

- Allows venting through a crawl space for downflow applications
- Includes 2 or 3 in. sanitary tee, 2 in. PVC assembly, PVC boot and clamp
- Kit for Canada is certified to ULC S636

Downflow Combustible Flooring Base

- · Required for heating only units installed on combustible
- Not required in add-on cooling applications
- See Dimension Drawing

High Performance Economizer (Commercial Applications Only)

- Designed for applications requiring outdoor air to be utilized in a commercial HVAC system
- Allows the entry of fresh outdoor air for free cooling. reducing the requirement for mechanical cooling
- Heavy gauge galvanized steel cabinet lined with thick fiberglass insulation
- Mixed air sensor, outdoor air sensor and 24VAC transformer furnished
- · Approved for California Title 24 building standards. ASHRAE 90.1-2010 compliant
- · See separate Product Specifications bulletin for additional information and available control and sensor options

FILTER (not furnished)

 Filter and provisions for external mounting must be field provided

Optional Accessories

Downflow Filter Cabinet

- · Filter cabinet mounts directly on top of furnace
- "B and "C" width cabinets have two filters
- · Filter rails are furnished
- Front access for servicing
- · Cleanable filter(s) are furnished

| AFUE 96% | F110XE60C 25725 96% 0,000 6,000 5-75 6 / 10.0 |
|--|---|
| Performance AFIRE No. | 96% 0,000 96,000 5-75 5 / 10.0 |
| High Fire Input - Btuh 44,000 66,000 88,000 11 Temperature rise range - °F 35-65 35-65 40-70 4 Gas Manifold Pressure (in. w.g.) Nat. Gas / LPG/Propane 3.5 / 10.0 3.5 / 10.0 3.5 / 10.0 3.5 / 10.0 57,000 72 | 0,000 6,000 5-75 6 / 10.0 |
| Fire Output - Btuh 43,000 64,000 85,000 10 Temperature rise range - °F 35-65 35-65 40-70 4 Gas Manifold Pressure (in. w.g.) Nat. Gas / LPG/Propane 3.5 / 10.0 3.5 / 10.0 3.5 / 10.0 3.5 / 10.0 3.5 Low Input - Btuh 29,000 43,000 57,000 72 | 6,000 5-75 6 / 10.0 |
| Temperature rise range - °F 35-65 35-65 40-70 4 | 5-75 5 / 10.0 |
| Gas Manifold Pressure (in. w.g.) 3.5 / 10.0 | 5 / 10.0 |
| Nat. Gas / LPG/Propane Low Input - Btuh 29,000 43,000 57,000 72 | |
| Fire | 2,000 |
| Fire Output Ptub 29,000 42,000 55,000 70 | |
| Output - Btuh 28,000 42,000 55,000 70 | 0,000 |
| Temperature rise range - °F 20 - 50 25 - 55 30 - 60 35 | 5 - 65 |
| Gas Manifold Pressure (in. w.g.) 1.7 / 4.5 1.7 / 4.5 1.7 / 4.5 1.7 / 4.5 | 7 / 4.5 |
| High static - in. w.g. 0.5 0.5 | 0.5 |
| Connections Intake / Exhaust Pipe (PVC) 2 / 2 2 / 2 2 / 2 | 2/2 |
| in. Gas pipe size IPS 1/2 1/2 1/2 | 1/2 |
| Condensate Drain Trap (PVC pipe) - i.d. 3/4 3/4 3/4 | 3/4 |
| with furnished 90° street elbow 3/4 slip x 3/4 Mipt 3/4 slip x 3/4 Mipt 3/4 slip x 3/4 Mipt 3/4 slip | x 3/4 Mipt |
| with field supplied (PVC coupling) - o.d. 3/4 slip x 3/4 MPT 3/4 slip x 3/4 MPT 3/4 slip x 3/4 MPT 3/4 slip | x 3/4 MPT |
| | I x 11 |
| Blower Motor Type DC Brushless DC Brushless DC Brushless DC B | rushless |
| Motor output - hp 1/2 3/4 3/4 | 1 |
| Tons of add-on cooling 1.5 - 3 2 - 4 2 - 4 3 | 3 - 5 |
| Air Volume Range - cfm 485 - 1395 520 - 1770 760 - 1765 1045 | 5 - 2285 |
| Electrical Voltage 120 volts - 60 hertz - 1 phase | |
| Data Blower motor full load amps 6.8 8.4 8.4 | 10.9 |
| Maximum overcurrent protection 15 15 15 | 15 |
| Shipping Data lbs 1 package 134 145 163 | |

NOTE - Filters and provisions for mounting are not furnished and must be field provided.

| INSTALLATION CLEARANCE | S |
|------------------------|------------------------------|
| Sides | ¹ 0 inches (0 mm) |
| Rear | 0 inches (0 mm) |
| Top/Plenum | 1 inch (25 mm) |
| Front | 0 inches (0 mm) |
| Front (service/alcove) | 24 inches (610 mm) |
| Floor | ² Combustible |

NOTE - Air for combustion must conform to the methods outlined in the National Fuel Gas Code (NFPA 54/ ANSI-Z223.1) or the National Standard of Canada CAN/CSA-B149.1 "Natural Gas and Propane Installation Code"

NOTE - In the U.S. flue sizing must conform to the methods outlined in the current National Fuel Gas Code (NFPA 54/ANSI-Z223.1) or applicable provisions of local building codes. In Canada flue sizing must conform to the methods outlined in National Standard of Canada CAN/CSA-B149.1.

Annual Fuel Utilization Efficiency based on DOE test procedures and according to FTC labeling regulations. Isolated combustion system rating for non-weatherized furnaces.

¹ Allow proper clearances to accommodate condensate trap and vent pipe installation.

² Clearance for installation on combustible floor if Optional Downflow Combustible Flooring Base is installed between furnace and combustible floor. Not required in add-on cooling applications if installed in accordance with local codes or National Fuel Gas Code ANSI-Z223.1 or CAN/CGA-149.1,.2. Do not install the furnace directly on carpeting, tile, or other combustible materials other than wood flooring.

| | | | "B" Width Models | "C" Width Models |
|--------------------|---|------------------------------|------------------|------------------|
| CABINET ACCE | SSORIES | | | |
| Downflow Comb | oustible Flooring Base | | 11M60 | 11M61 |
| High Performan | ce Economizer (Commercial Only |) | 10U53 | 10U53 |
| CONTROLS | | | | |
| Blower Relay Ki | t (for two-stage outdoor units) | | 85W66 | 85W66 |
| Furnace Twinnir | <u> </u> | | 16W72 | 16W72 |
| iComfort® E30 S | mart Wi-Fi Thermostat | | 20A65 | 20A65 |
| Remote Outdoo | r Temperature Sensor | | X2658 | X2658 |
| Night Service Ki | it | | 10B39 | 10B39 |
| ONDENSATE D | PRAIN KITS | | | |
| Condensate Dra | in Heat Cable | 6 ft. | 26K68 | 26K68 |
| | | 24 ft. | 26K69 | 26K69 |
| Crawl Space Ve | nt Drain Kit | US | 51W18 | 51W18 |
| | | Canada | 15 Z 70 | 15Z70 |
| ILTERS | | | | |
| Downflow Filte | er Cabinet | | 51W07 | 51W08 |
| | | No. and Size of filter - in. | (2) 16 x 20 x 1 | (2) 16 x 20 x 1 |
| ERMINATION | KITS | | | . , |
| See Installation I | nstructions for specific venting inforr | nation. | | |
| Direct Vent | Concentric | US - 2 in. | 71M80 | 69M29 |
| | | 3 in. | | 60L46 |
| | | Canada - 2 in. | 44W92 | 44W92 |
| | | 3 in. | | 44W93 |
| | Flush-Mount | US - 2, 2-1/2 or 3 in. | 51W11 | 51W11 |
| | | Canada - 2, 2-1/2 or 3 in. | 51W12 | 51W12 |
| | Wall - Close Couple | US - 2 in. | 22G44 | |
| | | 3 in. | 44J40 | 44J40 |
| | Wall - Close Couple WTK | Canada - 2 in. | 30G28 | |
| | | 3 in. | 81J20 | 81J20 |
| | Roof Termination Flashing Kit | 2 in. | 15F75 | 15F75 |
| | (no vent pipe - 2 flashings) | 3 in. | 44J41 | 44J41 |
| /ENTING | | | | |
| /ENTING | | | | |
| Flue Coupling | | 2 in. | 17H92 | 17H92 |

¹ Cleanable polyurethane, frame-type filter.

² NOTE - The curved exhaust pipe furnished with the Left Side Vent Kit counts as one additional 2 in. diameter 90° elbow. When using 3 in. diameter pipe, the furnished curved exhaust pipe and field provided fittings to transition from 2 in. to 3 in. count as 20 feet of equivalent pipe on all units.

NOTE - Termination Kits (44W92, 44W93, 30G28, 51W12, 81J20) and Crawl Space Vent Drain Kit (15Z70) are certified to ULC S636 standard for use in Canada only.

OUTDOOR TERMINATION KIT USAGE

| | | | Standard Te | erminations | | Cond | entric Termina | tions | | |
|---------------|------------------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|--|--|
| lmm4 | Vent | Flush Mount | Wal | l Kit | Field | Concentric Kit | | | | |
| Input Size | Pipe Diameter | Kit | 2 inch | 3 inch | Fabricated Exhaust | 1-1/2 inch | 2 inch | 3 inch | | |
| | (in.) | 51W11 (US) 4 51W12 (CA) | 22G44 (US) 4 30G28 (CA) | 44J40 (US) 4 81J20 (CA) | Accelerator Size Required | 71M80 (US) 4 44W92 (CA) | 69M29 (US) 4 44W92 (CA) | 60L46 (US) 4 44W93 (CA) | | |
| | 2 | ³ YES | YES | ¹ YES | 1-1/2 in. | ² YES | | | | |
| 045 | 2-1/2 | ³ YES | YES | ¹ YES | 1-1/2 in. | ² YES | | | | |
| | 3 | ³ YES | YES | ¹ YES | 1-1/2 in. | ² YES | | | | |
| | 2 | ³ YES | YES | ¹ YES | 1-1/2 in. | ² YES | | | | |
| 070 | 2-1/2 | 3 YES | YES | ¹ YES | 1-1/2 in. | ² YES | | | | |
| | 3 | ³ YES | YES | ¹ YES | 1-1/2 in. | ² YES | | | | |
| | 2 | ³ YES | | YES | 2 in. | | YES | YES | | |
| 090 | 2-1/2 | ³ YES | | YES | 2 in. | | YES | YES | | |
| | 3 | ³ YES | | YES | 2 in. | | YES | YES | | |
| | 2 | YES | | YES | 2 in. | | YES | YES | | |
| 110 | 2-1/2 | YES | | YES | 2 in. | | YES | YES | | |
| | 3 | YES | | YES | 2 in. | | YES | YES | | |

NOTE - Standard Terminations do not include any vent pipe or elbows external to the structure.

⁴ Termination Kits 30G28, 44W92, 44W93, 51W12 and 81J20 are certified to ULC S636 standard for use in Canada only.

| VENT LENGTHS - UNINSULATED EXHAUST PIPE IN UNCONDITIONED SPACE | | | | | | | | | | | | | |
|--|-----------------------|-----------------|---------------------|-----------|---------------------|------------|---------------------|-----|---------------------|--|--|--|--|
| | | Unit Input Size | | | | | | | | | | | |
| 1 Winter Design | Vent Dine | 04 | 45 | 0 | 70 | 09 | 90 | 1 | 10 | | | | |
| Winter Design Temperatures | Vent Pipe Diameter | | | Maximum U | ninsulated E | xhaust Ven | t Length (ft.) | | | | | | |
| · | | PVC | PolyPro InnoFlue | PVC | PolyPro InnoFlue | PVC | PolyPro InnoFlue | PVC | PolyPro InnoFlue | | | | |
| | 2 in. | 21 | 18 | 33 | 30 | 46 | 42 | 30 | 30 | | | | |
| 32 to 21°F | 2-1/2 in. | 16 | N/A | 26 | N/A | 37 | N/A | 36 | N/A | | | | |
| | 3 in. | 12 | 12 | 21 | 21 | 30 | 30 | 29 | 29 | | | | |
| | 2 in. | 11 | 9 | 19 | 17 | 28 | 25 | 27 | 24 | | | | |
| 20 to 1°F | 2-1/2 in. | 7 | N/A | 14 | N/A | 21 | N/A | 20 | N/A | | | | |
| | 3 in. | N/A | N/A | 9 | 9 | 16 | 16 | 14 | 14 | | | | |
| | 2 in. | 6 | 4 | 12 | 10 | 19 | 16 | 18 | 15 | | | | |
| 0 to −20°F | 2-1/2 in. | N/A | N/A | 7 | N/A | 13 | N/A | 12 | N/A | | | | |
| | 3 in. | N/A | N/A | N/A | N/A | 8 | 8 | 7 | 7 | | | | |

NOTE - Concentric terminations are equivalent to 5 ft. of straight pipe and should be included when measuring total pipe length.

PolyPro® poly-propylene vent pipe is a registered trademark of DuraVent®.

Innoflue® is a registered trademark of Centrotherm Eco Systems.

Any vent pipe or elbows external to the structure must be included in total vent length calculations. See Vent Length Tables.

¹ Requires field provided 1-1/2 in. outdoor exhaust accelerator.

² Concentric Kits **71M80** and **44W92** include 1-1/2 in. outdoor exhaust accelerator, required when used with 045 and 070 input models. Accelerator is not used with 090, 110, 135 input models.

³ Flush Mount Kit **51W11** and **51W12** includes 1-1/2 in. outdoor exhaust accelerator, required when used with 045, 070 and 090 input models. Accelerator is not used with 110 or 135 input models.

¹ Refer to 99% Minimum Design Temperature table provided in the current edition of ASHRAE Handbook-Fundamentals.

VENT LENGTHS

STANDARD TERMINATION AT ELEVATION 0 - 4500 ft.

| | Pipe Size | | 2 | in. | | | 2-1/ | 2 in. | | 3 in. | | | |
|--------|-----------|-----|-----|-----|-----|-----|------|-------|-----|-------|-----|-----|-----|
| | Input | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 |
| | 1 | 71 | 56 | 34 | 14 | 105 | 105 | 83 | 48 | 128 | 127 | 108 | 108 |
| | 2 | 66 | 51 | 29 | 9 | 100 | 100 | 78 | 43 | 123 | 122 | 103 | 103 |
| | 3 | 61 | 46 | 24 | 4 | 95 | 95 | 73 | 38 | 118 | 117 | 98 | 98 |
| | 4 | 56 | 41 | 19 | N/A | 90 | 90 | 68 | 33 | 113 | 112 | 93 | 93 |
| No. of | 5 | 51 | 36 | 14 | N/A | 85 | 85 | 63 | 28 | 108 | 107 | 88 | 88 |
| 90 ELL | 6 | 46 | 31 | 9 | N/A | 80 | 80 | 58 | 23 | 101 | 102 | 83 | 83 |
| | 7 | 41 | 26 | 4 | N/A | 75 | 75 | 53 | 18 | 98 | 97 | 78 | 78 |
| | 8 | 36 | 21 | N/A | N/A | 70 | 70 | 48 | 13 | 93 | 92 | 73 | 73 |
| | 9 | 31 | 16 | N/A | N/A | 65 | 65 | 43 | 8 | 88 | 87 | 68 | 68 |
| | 10 | 26 | 11 | N/A | N/A | 60 | 60 | 38 | 3 | 83 | 82 | 63 | 63 |

STANDARD TERMINATION ELEVATION 4501 - 10,000 ft.

| | Pipe Size | | 2 | in. | | | 2-1/ | 2 in. | | | 3 in. | | | |
|--------|-----------|-----|-----|-----|-----|-----|------|-------|-----|-----|-------|-----|-----|--|
| | Input | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 | |
| | 1 | 71 | 56 | 34 | N/A | 105 | 105 | 83 | 48 | 128 | 127 | 108 | 108 | |
| | 2 | 66 | 51 | 29 | N/A | 100 | 100 | 78 | 43 | 123 | 122 | 103 | 103 | |
| | 3 | 61 | 46 | 24 | N/A | 95 | 95 | 73 | 38 | 118 | 117 | 98 | 98 | |
| No. of | 4 | 56 | 41 | 19 | N/A | 90 | 90 | 68 | 33 | 113 | 112 | 93 | 93 | |
| | 5 | 51 | 36 | 14 | N/A | 85 | 85 | 63 | 28 | 108 | 107 | 88 | 88 | |
| 90 ELL | 6 | 46 | 31 | 9 | N/A | 80 | 80 | 58 | 23 | 103 | 102 | 83 | 83 | |
| | 7 | 41 | 26 | 4 | N/A | 75 | 75 | 53 | 18 | 98 | 97 | 78 | 78 | |
| | 8 | 36 | 21 | N/A | N/A | 70 | 70 | 48 | 13 | 93 | 92 | 73 | 73 | |
| | 9 | 31 | 16 | N/A | N/A | 65 | 65 | 43 | 8 | 88 | 87 | 68 | 68 | |
| | 10 | 26 | 11 | N/A | N/A | 60 | 60 | 38 | 3 | 83 | 82 | 63 | 63 | |

CONCENTRIC TERMINATION AT ELEVATION 0 - 4500 ft.

| | Pipe Size | | 2 | in. | | | 2-1/ | 2 in. | | | 3 in. | | | |
|--------|-----------|-----|-----|-----|-----|-----|------|-------|-----|-----|-------|-----|-----|--|
| | Input | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 | |
| | 1 | 63 | 48 | 32 | 12 | 95 | 95 | 79 | 44 | 111 | 111 | 104 | 104 | |
| | 2 | 58 | 43 | 27 | 7 | 90 | 90 | 74 | 39 | 106 | 106 | 99 | 99 | |
| | 3 | 53 | 38 | 22 | 2 | 85 | 85 | 69 | 34 | 101 | 91 | 94 | 94 | |
| | 4 | 48 | 33 | 17 | N/A | 80 | 80 | 64 | 29 | 96 | 96 | 89 | 89 | |
| No. of | 5 | 43 | 28 | 12 | N/A | 75 | 75 | 59 | 24 | 91 | 91 | 84 | 84 | |
| 90 ELL | 6 | 38 | 23 | 7 | N/A | 70 | 70 | 54 | 19 | 96 | 86 | 79 | 79 | |
| | 7 | 33 | 18 | 2 | N/A | 65 | 65 | 49 | 14 | 81 | 81 | 74 | 74 | |
| | 8 | 28 | 13 | N/A | N/A | 60 | 60 | 44 | 9 | 76 | 76 | 69 | 69 | |
| | 9 | 23 | 8 | N/A | N/A | 55 | 55 | 39 | 4 | 71 | 71 | 64 | 64 | |
| | 10 | 18 | 3 | N/A | N/A | 50 | 50 | 34 | N/A | 66 | 66 | 59 | 59 | |

CONCENTRIC TERMINATION ELEVATION 4501 - 10,000 ft.

| | Pipe Size | | 2 | in. | | | 2-1/ | 2 in. | | | 3 | in. | |
|--------|-----------|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|-----|-----|
| | Input | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 |
| | 1 | 63 | 48 | 32 | N/A | 95 | 95 | 79 | 44 | 111 | 111 | 104 | 94 |
| | 2 | 58 | 43 | 27 | N/A | 90 | 90 | 74 | 39 | 106 | 106 | 99 | 99 |
| | 3 | 53 | 38 | 22 | N/A | 85 | 85 | 69 | 34 | 101 | 101 | 94 | 94 |
| | 4 | 48 | 33 | 17 | N/A | 80 | 80 | 64 | 29 | 96 | 96 | 89 | 89 |
| No. of | 5 | 43 | 28 | 12 | N/A | 75 | 75 | 59 | 24 | 91 | 91 | 84 | 84 |
| 90 ELL | 6 | 38 | 23 | 7 | N/A | 70 | 70 | 54 | 19 | 86 | 86 | 79 | 79 |
| | 7 | 33 | 18 | 2 | N/A | 65 | 65 | 49 | 14 | 81 | 81 | 74 | 74 |
| | 8 | 28 | 13 | N/A | N/A | 60 | 60 | 44 | 9 | 76 | 76 | 69 | 69 |
| | 9 | 23 | 8 | N/A | N/A | 55 | 55 | 39 | 4 | 71 | 71 | 64 | 64 |
| | 10 | 18 | 3 | N/A | N/A | 50 | 50 | 34 | N/A | 66 | 66 | 59 | 59 |

VENT LENGTHS (EXHAUST) - VENTILATED ATTIC OR CRAWLSPACE INTAKE AIR

STANDARD TERMINATION AT ELEVATION 0 - 10,000 ft.

| | Pipe Size | | 2 | in. | | | 2-1/ | 2 in. | | 3 in. | | | |
|--------|-----------|-----|-----|-----|-----|-----|------|-------|-----|-------|-----|-----|-----|
| | Input | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 | 045 | 070 | 090 | 110 |
| | 1 | 61 | 46 | 24 | 4 | 90 | 90 | 68 | 33 | 108 | 107 | 88 | 88 |
| | 2 | 56 | 41 | 19 | N/A | 85 | 85 | 63 | 28 | 103 | 102 | 83 | 83 |
| | 3 | 51 | 36 | 14 | N/A | 80 | 80 | 58 | 23 | 98 | 97 | 78 | 78 |
| | 4 | 46 | 31 | 9 | N/A | 85 | 75 | 63 | 18 | 93 | 92 | 73 | 73 |
| No. of | 5 | 41 | 26 | 4 | N/A | 70 | 70 | 48 | 13 | 88 | 87 | 68 | 68 |
| 90 ELL | 6 | 36 | 21 | N/A | N/A | 65 | 65 | 43 | 8 | 83 | 82 | 63 | 63 |
| | 7 | 31 | 16 | N/A | N/A | 60 | 60 | 38 | 3 | 78 | 77 | 58 | 58 |
| | 8 | 26 | 11 | N/A | N/A | 55 | 55 | 33 | N/A | 73 | 72 | 53 | 53 |
| | 9 | 21 | 6 | N/A | N/A | 50 | 50 | 28 | N/A | 68 | 67 | 48 | 48 |
| | 10 | 16 | 1 | N/A | N/A | 45 | 45 | 23 | N/A | 63 | 62 | 43 | 43 |

GAS HEAT ACCESSORIES

| Input | High Altitude Pressure Switch Kit | | Natural Gas to LPG/Propane Kit | LPG/Propane to Natural Gas Kit | Natural Gas High Altitude Orifice Kit | LPG/Propane High Altitude Orifice Kit |
|-------|--------------------------------------|-------------------|-----------------------------------|-----------------------------------|---|---|
| | 4501 - 7500 ft. | 7501 - 10,000 ft. | 0 - 7500 ft. | 0 - 7500 ft. | 7501- 10,000 ft. | 7501- 10,000 ft. |
| 045 | 14A47 | 14A50 | 11K51 | 77W09 | 73W37 | 11K46 |
| 070 | 14A55 | 14A56 | 11K51 | 77W09 | 73W37 | 11K46 |
| 090 | 14A54 | 14A53 | 11K51 | 77W09 | 73W37 | 11K46 |
| 110 | 14A46 | 14A51 | 11K51 | 77W09 | 73W37 | 11K46 |

HIGH ALTITUDE DERATE

NOTE - Units may be installed at altitudes up to 10,000 ft.

At altitudes above 4501 ft. the unit must be derated to match the manifold pressure information shown below.

Units installed at altitudes of 4501 to 10,000 ft. require a pressure switch change.

Units installed at altitudes of 7501 to 10,000 ft. require an orifice change.

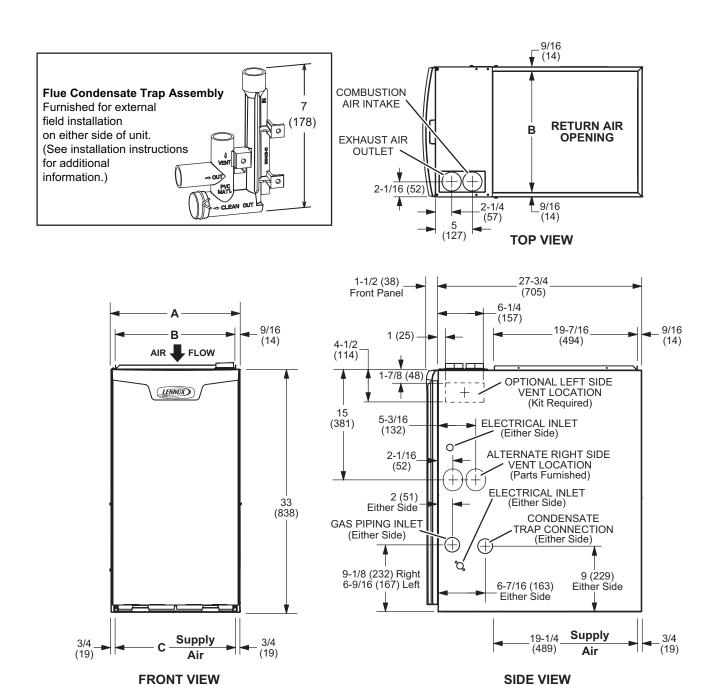
See the Gas Heat Accessories table for ordering information.

NOTE - This is the only permissible derate for these units.

NOTE - In Canada, certification for installations at elevations over 4500 feet is the jurisdiction of local authorities.

| | Gas | Manifold Pressure in. w.g. | | | | | | | | | | Supply Line | |
|-----------|-------------|----------------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-------------------|--------------|--|------|
| Input | | 0 - 4500 ft. | | 4501 - 5500 ft. | | 5501 - 6500 ft. | | 6501 - 7500 ft. | | 7501 - 10,000 ft. | | Pressure in. w.g. 0 - 10,000 ft. | |
| | | Low Fire | High Fire | Low Fire | High Fire | Low Fire | High Fire | Low Fire | High Fire | Low Fire | High Fire | Min. | Max. |
| All Sizes | Natural | 1.7 | 3.5 | 1.6 | 3.3 | 1.5 | 3.2 | 1.5 | 3.1 | 1.7 | 3.5 | 4.5 | 13.0 |
| | LPG/Propane | 4.5 | 10.0 | 4.2 | 9.4 | 4.0 | 9.1 | 3.9 | 8.9 | 4.5 | 10.0 | 11.0 | 13.0 |

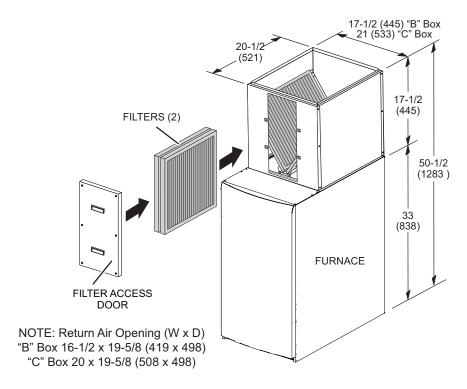
DIMENSIONS UNIT



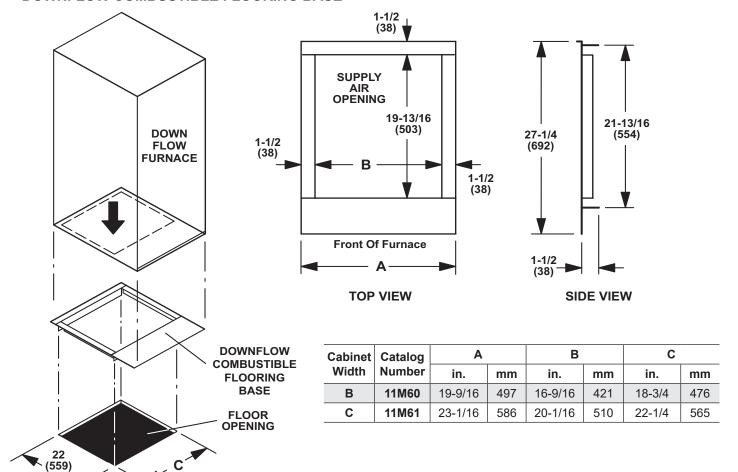
| Model No. | Α | | ı | 3 | С | | |
|------------------------------------|--------|-----|--------|-----|--------|-----|--|
| | in. | mm | in. | mm | in. | mm | |
| EL296DF045XE36B EL296DF070XE48B | 17-1/2 | 446 | 16-3/8 | 416 | 16 | 406 | |
| EL296DF090XE48C EL296DF110XE60C | 21 | 533 | 19-7/8 | 505 | 19-1/2 | 495 | |

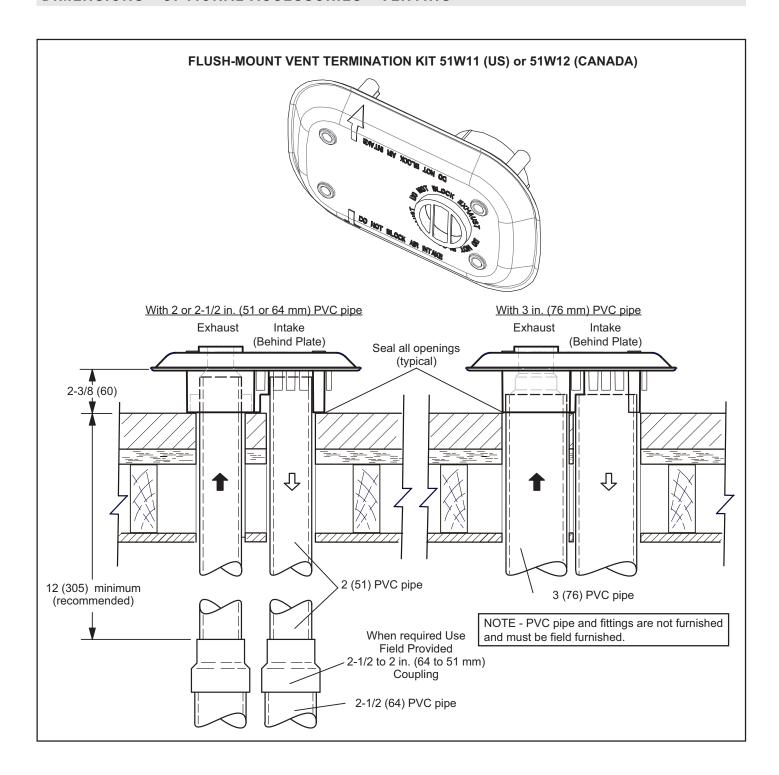
DOWNFLOW FILTER CABINET

"B AND "C" WIDTH FURNACES (Two Filters)



DOWNFLOW COMBUSTIBLE FLOORING BASE





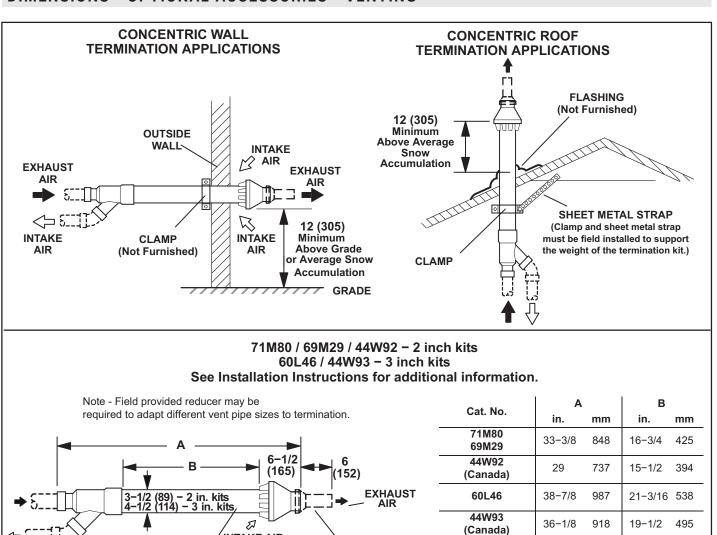
DIMENSIONS - OPTIONAL ACCESSORIES - VENTING

INTAKE AIR

TERMINATION

ASSEMBLY

(Furnished)



Outdoor Exhaust Accelerator

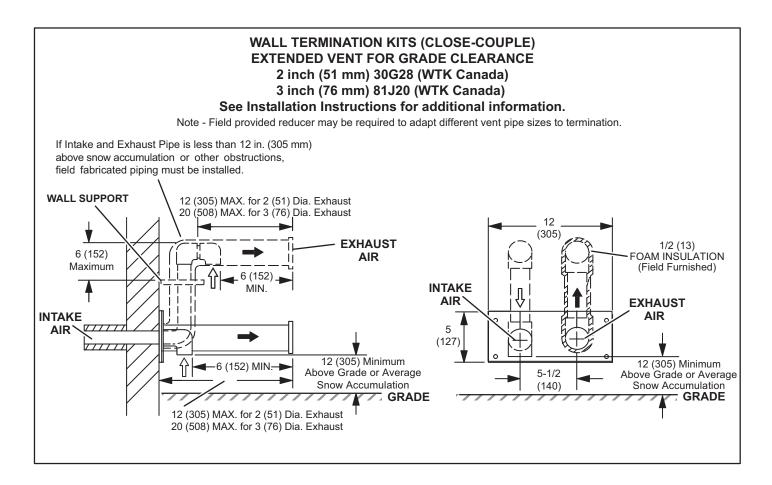
included with 71M80/44W92

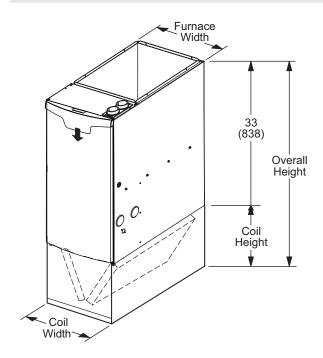
NOTE - Typical illustration for dimensions only. Design may vary depending on kit ordered.

ELBOW

(Field Supplied)

WALL TERMINATION KITS (CLOSE-COUPLE) **EXTENDED VENT FOR GRADE CLEARANCE** 2 inch (51 mm) 22G44 (US) 3 inch (76 mm) 44J40 (US) See Installation Instructions for additional information. Note - Field provided reducer may be required to adapt different vent pipe sizes to termination. If Intake and Exhaust Pipe is less than 12 in. (305 mm) above snow accumulation or other obstructions, field fabricated piping must be installed. 8 (203) MIN. Between Ends of Exhaust and Intake Pipe 12 (305) MAX. for 2 (51) Dia. Exhaust WALL SUPPORT 20 (508) MAX. for 3 (76) Dia. Exhaust 12 (305)**EXHAUST** 1/2 (13) 6 (152) FOAM INSULATION AIR Maximum (Field Furnished) INTAKE **AIR EXHAUST** INTAKE AIR **AIR** 5 (127)12 (305) Minimum 12 (305) Minimum ·8 (203) MIN. Above Grade or Average Above Grade or Average 5-1/2 Snow Accumulation Snow Accumulation **GRADE** GRADE 12 (305) MAX. for 2 (51) Dia. Exhaust 20 (508) MAX. for 3 (76) Dia. Exhaust





| Model Number | Coil Width | | Furn Wid | | Co Heiç | | Overall Height | | |
|-----------------|---------------|-----|-------------|-----|------------|-----|-------------------|------|--|
| Number | in. | mm | in. | mm | in. | mm | in. | mm | |
| CR33-24B-F | 17-1/2 | 446 | 17-1/2 | 446 | 13-1/4 | 337 | 46-1/4 | 1175 | |
| CR33-30/36B-F | 17-1/2 | 446 | 17-1/2 | 446 | 16-1/8 | 410 | 49-1/8 | 1248 | |
| CR33-30/36C-F | 21 | 533 | 21 | 533 | 16-1/8 | 410 | 49-1/8 | 1248 | |
| CR33-48B-F | 21 | 533 | 17-1/2 | 446 | 20 | 508 | 53 | 1346 | |
| CR33-48C-F | 21 | 533 | 21 | 533 | 20 | 508 | 53 | 1346 | |
| CR33-50/60C-F | 24-1/2 | 622 | 21 | 533 | 23-5/8 | 600 | 56-5/8 | 2276 | |

BLOWER DATA

EL296DF045XE36B PERFORMANCE (Less Filter)

| External | | Air Volume / Watts at Various Blower Speeds | | | | | | | | | | | | |
|--------------------|------------------------|---|------------------------|-------|------|-------------------------|-----|------------------------|-----|------------------|--|--|--|--|
| Static Pressure | High (Black) | | Medium-High (Brown) | | | Medium (Blue) | | Medium-Low (Yellow) | | ow ed) | | | | |
| in. w.g. | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | | | | |
| 0.00 | 1395 | 335 | 1290 | 250 | 1190 | 195 | 910 | 105 | 865 | 95 | | | | |
| 0.10 | 1375 | 350 | 1245 | 260 | 1140 | 205 | 875 | 110 | 815 | 100 | | | | |
| 0.20 | 1320 | 360 | 1215 | 265 | 1090 | 215 | 825 | 120 | 785 | 110 | | | | |
| 0.30 | 1285 | 365 | 1165 | 270 | 1065 | 225 | 795 | 130 | 735 | 115 | | | | |
| 0.40 | 1275 | 375 | 1150 | 285 | 1025 | 230 | 750 | 135 | 705 | 120 | | | | |
| 0.50 | 1230 | 385 | 1095 | 295 | 985 | 240 | 705 | 145 | 650 | 125 | | | | |
| 0.60 | 1185 | 380 | 1060 | 300 | 935 | 245 | 655 | 150 | 605 | 135 | | | | |
| 0.70 | N/A | N/A | 1020 | 310 | 915 | 250 | 590 | 150 | 545 | 140 | | | | |
| 0.80 | N/A | N/A | 980 | 315 | 860 | 255 | 555 | 160 | 485 | 140 | | | | |

EL296DF070XE48B PERFORMANCE (Less Filter)

| External | | Air Volume / Watts at Various Blower Speeds | | | | | | | | | | | |
|--------------------|-------------|---|------------------------|-------|-------------------------|-------|------|----------------------|--------------|-------|--|--|--|
| Static Pressure | Static High | | Medium-High (Brown) | | Medium (Blue) | | | m-Low low) | Low (Red) | | | | |
| in. w.g. | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | | | |
| 0.00 | 1770 | 510 | 1550 | 340 | 1355 | 220 | 1255 | 180 | 1035 | 115 | | | |
| 0.10 | 1720 | 520 | 1510 | 355 | 1315 | 230 | 1200 | 185 | 980 | 105 | | | |
| 0.20 | 1705 | 535 | 1470 | 365 | 1265 | 245 | 1165 | 195 | 895 | 110 | | | |
| 0.30 | 1665 | 540 | 1430 | 380 | 1235 | 250 | 1120 | 205 | 835 | 120 | | | |
| 0.40 | 1605 | 555 | 1390 | 395 | 1185 | 260 | 1070 | 210 | 775 | 130 | | | |
| 0.50 | 1585 | 565 | 1335 | 400 | 1155 | 275 | 1015 | 225 | 690 | 140 | | | |
| 0.60 | 1540 | 565 | 1300 | 410 | 1100 | 290 | 970 | 235 | 625 | 145 | | | |
| 0.70 | N/A | N/A | 1260 | 420 | 1050 | 295 | 915 | 245 | 570 | 150 | | | |
| 0.80 | N/A | N/A | 1220 | 430 | 1015 | 305 | 865 | 255 | 520 | 155 | | | |

EL296DF090XE48C PERFORMANCE (Less Filter)

| External | | Air Volume / Watts at Various Blower Speeds | | | | | | | | | | | |
|--------------------|------|---|------|------------------------|------|-------------------------|------|------------------------|------|--------------|--|--|--|
| Static Pressure | | High (Black) | | Medium-High (Brown) | | Medium (Blue) | | Medium-Low (Yellow) | | Low (Red) | | | |
| in. w.g. | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | | | |
| 0.00 | 1765 | 395 | 1565 | 265 | 1410 | 210 | 1290 | 175 | 1180 | 135 | | | |
| 0.10 | 1745 | 410 | 1510 | 280 | 1365 | 220 | 1265 | 185 | 1120 | 140 | | | |
| 0.20 | 1685 | 425 | 1455 | 295 | 1310 | 235 | 1220 | 200 | 1080 | 150 | | | |
| 0.30 | 1630 | 440 | 1415 | 310 | 1285 | 250 | 1165 | 210 | 1035 | 160 | | | |
| 0.40 | 1620 | 450 | 1370 | 320 | 1245 | 255 | 1125 | 220 | 985 | 175 | | | |
| 0.50 | 1570 | 465 | 1335 | 330 | 1185 | 265 | 1080 | 230 | 925 | 180 | | | |
| 0.60 | 1540 | 470 | 1295 | 345 | 1145 | 280 | 1045 | 240 | 875 | 190 | | | |
| 0.70 | N/A | N/A | 1260 | 355 | 1110 | 295 | 990 | 255 | 825 | 200 | | | |
| 0.80 | N/A | N/A | 1210 | 370 | 1060 | 305 | 940 | 260 | 760 | 205 | | | |

EL296DF110XE60C PERFORMANCE (Less Filter)

| External | | Air Volume / Watts at Various Blower Speeds | | | | | | | | | | | |
|--------------------|-----------------|---|------------------------|-------|-------------------------|-------|------------------------|-------|--------------|-------|--|--|--|
| Static Pressure | High (Black) | | Medium-High (Brown) | | Medium (Blue) | | Medium-Low (Yellow) | | Low (Red) | | | | |
| in. w.g. | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | cfm | Watts | | | |
| 0.00 | 2285 | 640 | 1990 | 435 | 1805 | 330 | 1685 | 265 | 1480 | 195 | | | |
| 0.10 | 2250 | 660 | 1965 | 450 | 1775 | 345 | 1630 | 280 | 1430 | 205 | | | |
| 0.20 | 2185 | 675 | 1910 | 465 | 1720 | 360 | 1575 | 295 | 1360 | 215 | | | |
| 0.30 | 2150 | 690 | 1850 | 485 | 1670 | 375 | 1525 | 310 | 1290 | 235 | | | |
| 0.40 | 2085 | 710 | 1810 | 495 | 1605 | 395 | 1465 | 325 | 1255 | 245 | | | |
| 0.50 | 2060 | 725 | 1765 | 515 | 1565 | 400 | 1420 | 335 | 1190 | 255 | | | |
| 0.60 | 2005 | 745 | 1700 | 535 | 1510 | 420 | 1370 | 355 | 1160 | 270 | | | |
| 0.70 | 1970 | 760 | 1665 | 550 | 1460 | 440 | 1325 | 370 | 1100 | 280 | | | |
| 0.80 | 1910 | 775 | 1620 | 560 | 1420 | 450 | 1275 | 380 | 1045 | 295 | | | |

| REVISIONS | | | | | |
|----------------------|---------------------------------------|--|--|--|--|
| Sections | Description of Change | | | | |
| Optional Accessories | Removed Wall Ring Kit (discontinued). | | | | |











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