

Submittal Data Sheet: Z8ET Series - Non-condensing Residential Gas Furnaces Two-Stage Standard ECM Multi-position Standard and Low NOx

6387995-BSD-A-0623

Submittal data

Job name:			Location:	
Purchaser:			Order number:	
Engineer:				
Submitted to:	For:	Ref:	Approval:	Construction:
Submitted by:			Date:	
Unit designated:			Schedule number:	Model number:

Product data

Heating performance

Input capacity _____ MBH
Output capacity _____ MBH
Air temperature rise _____ °F

Supply air blower performance

Total supply air _____ CFM
Total external static pressure _____ IWG
Blower speed (circle) H MH M ML L
Motor rating _____ HP

Electrical data

Power supply _____ / _____ / _____
Total unit ampacity _____ A
Minimum wire size _____ AWG
Maximum overcurrent device ☐ fuses ☐ circuit breaker

Weight

Unit weight _____ lb

Warranty

20-year limited warranty on the heat exchanger.

10-year heat exchanger warranty on non-residential applications.

5-year limited parts warranty.

Extended residential limited lifetime heat exchanger and 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or within 90 days of closing for new home construction.

See *Limited Warranty certificate* in *Users Information Manual* for details.

Certification



Assembled at a facility with
an ISO 9001:2015-certified
Quality Management
System



Features

- Two-stage heating operation includes a two-stage gas valve, two-stage inducer operation, and standard ECM blower operation. Auto-staging allows two-stage operation with a single-stage thermostat.
- Easily applied in upflow, horizontal left, horizontal right, or downflow installation with minimal conversion necessary
- The unit cabinet is compact and easy to install with an ideal height of 33 in.
- Blower-off delay for cooling SEER2 improvement
- Easy access to controls to connect power and control wiring
- Built-in, high-level self diagnostics with fault code displays standard on integrated control module for reliable operation
- Low unit current requirement for easy replacement application
- All models are convertible to use propane (LP) gas.
- Electronic hot surface ignition reduces fuel cost with increased dependability and reliability.
- 100% shut-off main gas valve for extra safety
- 24 V, 40 VA control transformer and control provisions supplied for add-on cooling
- Hi-tech tubular aluminized steel primary heat exchanger
- Solid removable bottom panel allows easy conversion for bottom return air applications
- Airflow leakage less than 1% of nominal airflow for duct performance testing conditions
- No electrical knockouts, making installation easier
- Fold-up duct connector flanges for application flexibility
- Quiet inducer operation
- Inducer rotates for easy conversion of venting options
- Fully supported blower assembly for easy access and removal of blower
- External air filters are used for maximum flexibility in meeting customers' indoor air quality (IAQ) needs.
- Insulated blower compartment for thermal and acoustic performance
- Low NOx models have been designed to meet specific code requirements.
- Venting applications: install as a common vent with other gas-fired appliances or use a lined masonry chimney.
- 1/4 turn knobs are provided for easy independent door removal.

Dimensions

Figure 1: Dimensions

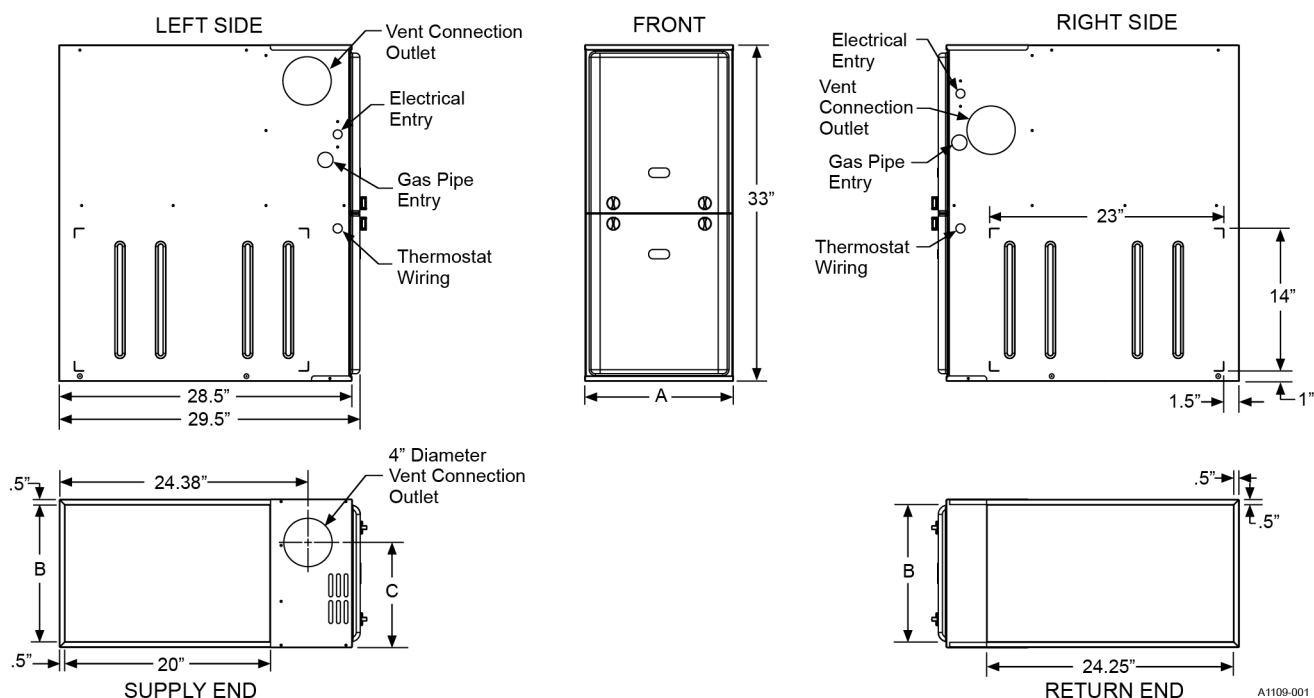


Table 1: Cabinet and duct dimensions

Models	Nominal CFM (m ³ /min)	Cabinet size	A (in.)	A (cm)	B (in.)	B (cm)	C (in.)	C (cm)
Z8ET060A12LMPS1	1200 (34.0)	A	14 1/2	36.8	13 3/8	34.0	10.3	26.2
Z8ET080B12SMPS1	1200 (34.0)	B	17 1/2	44.4	16 3/8	41.6	11.8	29.9

Table 1: Cabinet and duct dimensions

Models	Nominal CFM (m ³ /min)	Cabinet size	A (in.)	A (cm)	B (in.)	B (cm)	C (in.)	C (cm)
Z8ET080C16LMPS1	1600 (45.3)	C	21	53.3	19 7/8	50.5	13.6	34.5
Z8ET100C16LMPS1	1600 (45.3)	C	21	53.3	19 7/8	50.5	13.6	34.5
Z8ET100C20LMPS1	2000 (56.6)	C	21	53.3	19 7/8	50.5	13.6	34.5
Z8ET120C20LMPS1	2000 (56.6)	C	21	53.3	19 7/8	50.5	15.8	40.1

Accessories

Propane (LP) Conversion Kit

This accessory conversion kit can be used to convert natural gas units for LP operation.

S1-1NP0347 - all models except 130 kBtu input

LP Stainless Steel Burner Kit

This accessory conversion kit may be used to convert existing burners to stainless steel burners for LP use only.

S1-32926889000 - all LP Models

Natural (NAT) Gas Stainless Steel Burner Kit

This accessory kit may be used to replace existing burners with stainless steel burners for NAT gas use only.

S1-32924441000 - all NAT gas models

Side Return Filter Racks

The S1-1SR0402 kit accommodates only a 1 in. filter.

S1-1SR0402 - all models

Bottom Return Filter Racks

The S1-1BR05* series are galvanized steel filter racks. The S1-1BR06* series are pre-painted steel filter racks to match the appearance of the furnace cabinet. The S1-1BR05* and S1-1BR06* series filter racks accommodate a 1 in., 2 in., or 4 in. filter.

S1-1BR0514 or S1-1BR0614 - for 14 1/2 in. cabinets

S1-1BR0517 or S1-1BR0617 - for 17 1/2 in. cabinets

S1-1BR0521 or S1-1BR0621 - for 21 in. cabinets

Masonry Chimney Kit

This accessory kit allows upflow 80% models to be vented into a tile-lined masonry chimney.

S1-1CK0604 - all 80% Non-modulating Models

Combustible Floor Base Kit

These kits are required to prevent potential overheating situations when the furnaces are installed in downflow applications directly onto combustible flooring material. These kits are also required in any applications where the furnace is installed in a downflow configuration without an indoor coil and where the combustible floor base kit provides access for combustible airflow.

S1-1CB0514 - for 14 1/2 in. cabinets

S1-1CB0517 - for 17 1/2 in. cabinets

S1-1CB0521 - for 21 in. cabinets

High Altitude Pressure Switches

For installation where the altitude is less than 5,000 ft, it is not required to change the pressure switch. For altitudes above 5,000 ft, use an appropriate kit from below:

S1-1PS3309 - all models

Thermostats

Compatible thermostat controls are available through accessory sourcing. For optimum performance, these outdoor units are fully compatible with our residential touchscreen thermostat available through Source 1. For more information, refer to the *Thermostat & Controllers* section at <http://www.simplygettingthejobdone.com>.

