

Submittal Data Sheet: Z8ES Series Single-Stage Standard ECM Non-condensing Multi- position Standard and Low NOx Residential Gas Furnaces

6368928-BSD-A-0423

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

- Easily applied in upflow, horizontal left or 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 saves fuel cost with increased dependability and reliability.
- 100% shut-off main gas valve for extra safety
- Five-speed direct drive standard ECM blower motor
- 24 V, 40 VA control transformer and control provisions supplied for single or multi-stage add on cooling
- Hi-tech tubular aluminized steel primary heat exchanger
- Timed on, adjustable off blower capability for maximum comfort
- Blower door safety switch
- Solid removable bottom panel allows easy conversion for bottom return air applications
- Low NOx models have been designed to meet specific code requirements.
- Airflow leakage less than 1% of nominal airflow for duct performance testing conditions
- No electrical knockouts to deal with, 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.
- 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.
- High-efficiency blower motor for lower electrical power usage and improved AC SEER2 ratings
- Insulated blower compartment for thermal and acoustic performance

Dimensions

Figure 1: Dimensions

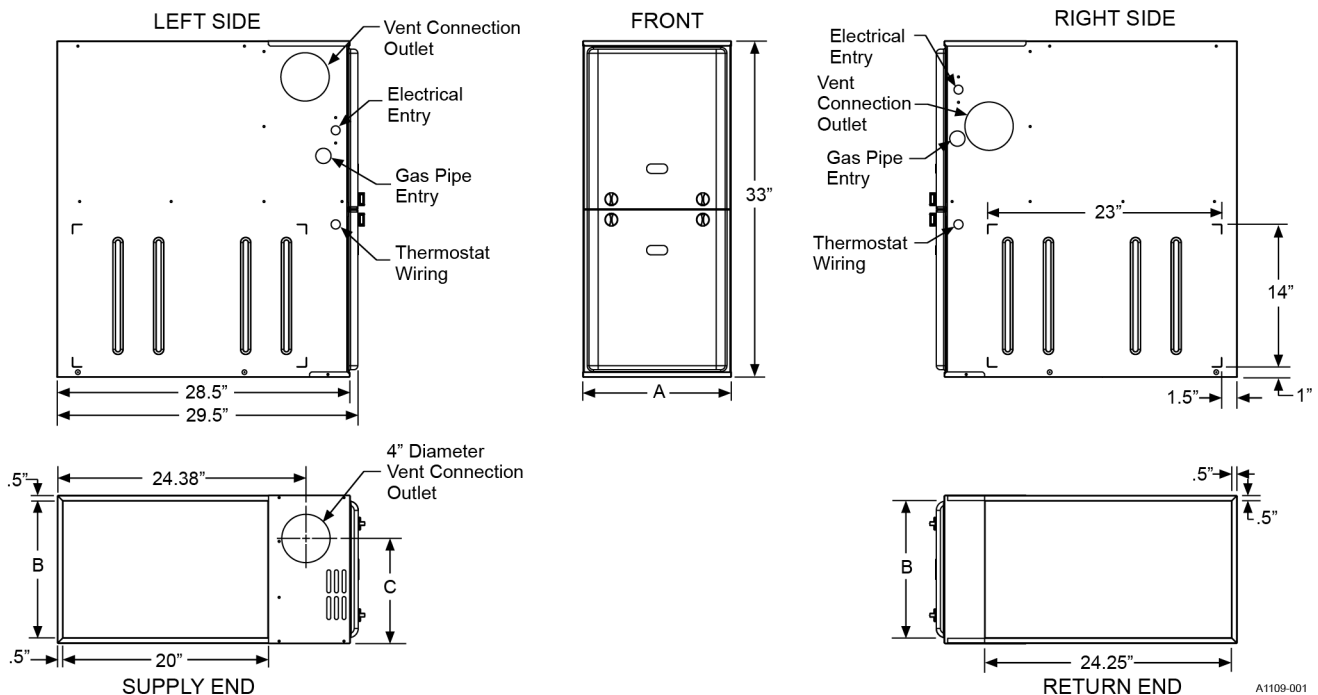


Table 1: Cabinet and duct dimensions

Models	Cabinet size	A (in.)	A (cm)	B (in.)	B (cm)	C (in.)	C (cm)	Approximate operating weight (lb)
Z8ES040A12S(L)MPS1	A	14 1/2	36.8	13 3/8	34.0	10.3	26.2	89
Z8ES060A12S(L)MPS1	A	14 1/2	36.8	13 3/8	34.0	10.3	26.2	94
Z8ES080B12S(L)MPS1	B	17 1/2	44.4	16 3/8	41.6	11.8	29.9	103
Z8ES080C16S(L)MPS1	C	21	53.3	19 7/8	50.5	13.6	34.5	116
Z8ES080C20S(L)MPS1	C	21	53.3	19 7/8	50.5	13.6	34.5	121
Z8ES100B12S(L)MPS1	B	17 1/2	44.4	16 3/8	41.6	11.8	29.9	108
Z8ES100C16S(L)MPS1	C	21	53.3	19 7/8	50.5	13.6	34.5	120
Z8ES100C20S(L)MPS1	C	21	53.3	19 7/8	50.5	13.6	34.5	124
Z8ES120C16S(L)MPS1	C	21	53.3	19 7/8	50.5	15.8	40.1	125
Z8ES120C20S(L)MPS1	C	21	53.3	19 7/8	50.5	15.8	40.1	131
Z8ES130D20S(L)MPS1	D	24.5	62.2	23 3/8	59.4	17.5	44.4	137

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

S1-1NP0501 - 130 kBtu input only

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

S1-1SR0402 - kit accommodates 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

S1-1BR0524 or S1-1BR0624 - for 24 1/2 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

S1-1CB0524 - for 24 1/2 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:

S1-1PS3301 - 040, 060, 080, 120

S1-1PS3302 - 100, 130

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>.

