

QUICK REFERENCE GUIDE

95.5% SINGLE STAGE MULTI-POSITION RESIDENTIAL GAS FURNACES (33" TALL)

NOTES:

1. Refer to the condensate management and drain hose plumbing for different configurations in this document. No hose clamps are needed for the condensate pan hook up.
2. Drip leg in the gas line must be installed.
3. The furnace controls require correct polarity on the power supply and a proper ground.
4. Y & G must be connected to the control board for cooling operation.
5. To measure total static pressure add supply duct pressure to the return duct pressure, add pressure drop across the 'A' coil, and add pressure drop across the filter. Ignore negative signs on the readings.
6. Inlet gas pressure for natural gas should be 7" and that for propane should be 11" w.c. Nominal manifold gas pressure is 3.5" for natural gas and 10" w.c. for propane.
7. If thermoplastic evaporator 'A' coil drain pans are to be installed in the up-flow/horizontal configuration, then extra 2" minimum spacing may be needed to ensure against drain pan distortion.
8. External filters required on all configurations.
9. Electrical entry is available on both sides of the casing.
10. All 33", 95% furnaces are approved for single-pipe and 2-pipe systems. For single pipe systems it is recommended to install the combustion air coupling provided and install approximately 18" of PVC pipe on the furnace.
11. Do not install an external condensate trap on these furnaces, as it will prevent the unit from operating correctly.

Models	Airflow CFM (Bottom Return without Filters)				Minimum Wire Size awg @ 75' One-Way	Total Unit Amps	Maximum Over Current Protection
	0.5" ESP (Nominal)						
	Low	Med-Lo	Med-Hi	High			
(T,G)G9S040A08MP11	581	653	818	950	14	8.0	15
(T,G)G9S060A10MP11	769	917	1038	1103	14	10.0	15
(T,G)G9S060B12MP11	713	872	1082	1243	14	10.0	15
(T,G)G9S080B12MP11	854	1008	1179	1370	14	10.0	15
(T,G)G9S080C16MP11	838	1250	1465	1671	14	11.5	15
(T,G)G9S080C22MP11	1285	1586	1937	2162	12	17.0	20
(T,G)G9S100C16MP11	819	1224	1477	1706	14	11.5	15
(T,G)G9S100C20MP11	1183	1430	1712	1934	12	17.0	20
(T,G)G9S120D16MP11	876	1254	1495	1805	14	11.5	15
(T,G)G9S120D20MP11	1190	1430	1739	1977	12	17.0	20
(T,G)G9S130D20MP11	1198	1459	1786	2047	12	17.0	20

Models	Maximum Vent Equivalent ¹		Factory Heating Speed Setting ²	Temperature Rise Range	Time For 1 ft ³ Natural Gas (1030 Btu/Ft ³) Seconds On (Rate)
	2"	3"			
	(T,G)G9S040A08MP11	65'			
(T,G)G9S060A10MP11	65'	90'	High	30°F-60°F	62
(T,G)G9S060B12MP11	65'	90'	Med-Hi	30°F-60°F	62
(T,G)G9S080B12MP11	65'	90'	High	35°F-65°F	46
(T,G)G9S080C16MP11	65'	90'	High	35°F-65°F	46
(T,G)G9S080C22MP11	65'	90'	Med-Hi	35°F-65°F	46
(T,G)G9S100C16MP11	30'	90'	High	35°F-65°F	37
(T,G)G9S100C20MP11	30'	90'	Med-Hi	35°F-65°F	37
(T,G)G9S120D16MP11	30'	90'	High	40°F-70°F	30
(T,G)G9S120D20MP11	30'	90'	Med-Hi	35°F-65°F	30
(T,G)G9S130D20MP11	N/A	85'	High	45°F-75°F	28

1. For venting purposes, one 90° sweep elbow is equal to 5 Ft. of venting length, one 90° standard elbow is equal to 10 equivalent feet of vent length. Vent termination elbows are included in these calculations, minimum required vent length is 5 ft.
2. Must be changed if not in rise range.

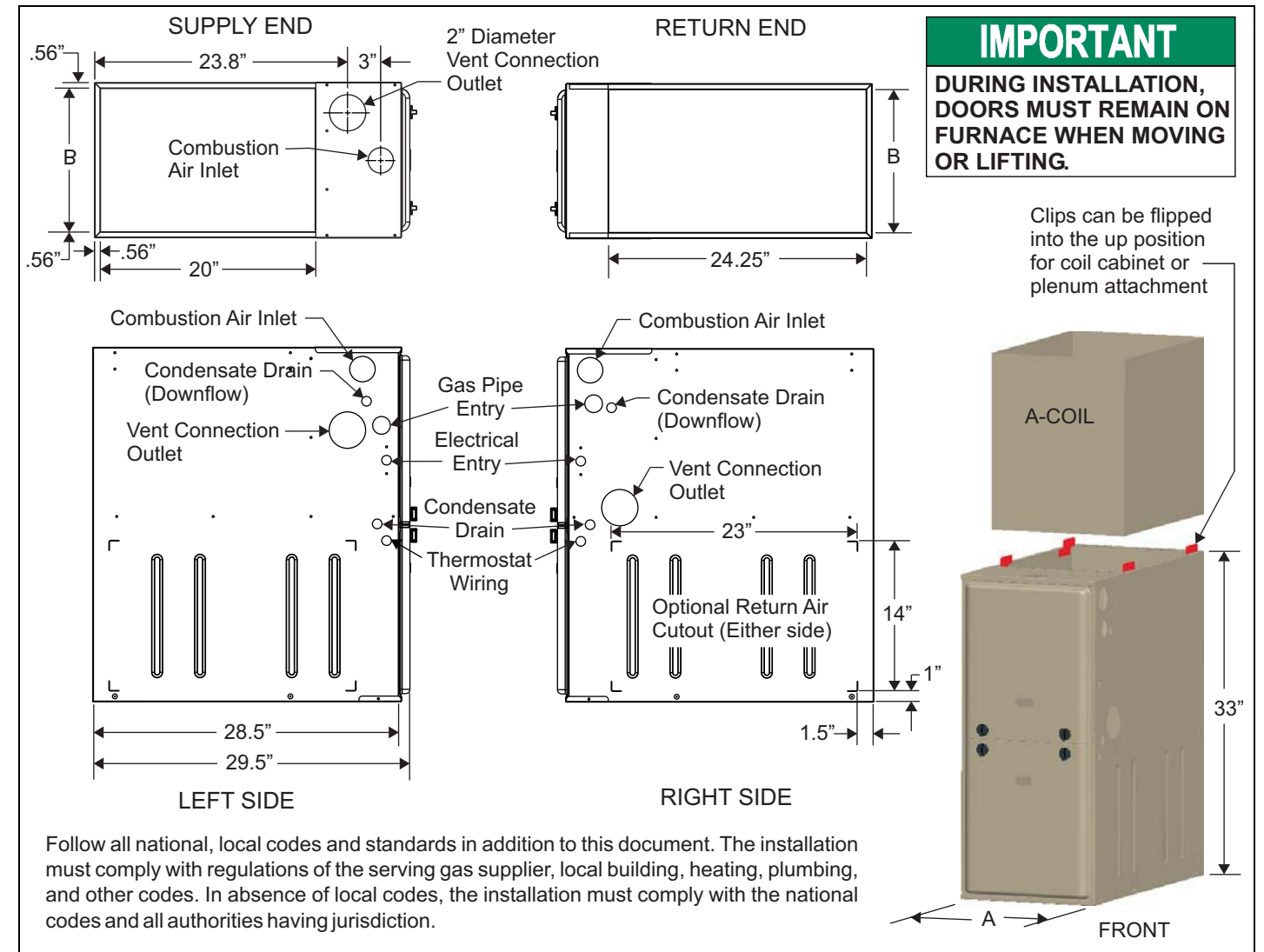
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401260-URG-E-0509
Supersedes: 401260-URG-D-0808

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This document does not replace the installation instructions, which must be referred to for detailed information.



CLEARANCES

Application	Upflow	Downflow	Horizontal
Top	1"	0"	0"
Vent	0"	0"	0"
Rear	0"	0"	0"
Side	0"	0"	1"
Front*	0"	0"	0"
Floor	Combustible	Combustible ¹	Combustible
Closet	Yes	Yes	Yes
Line Contact	No	No	Yes

1. For combustible floors only when used with special sub-base.
- * 24" clearance in front and 18" on side recommended for service access.
- All furnaces approved for alcove and attic installation.

DIMENSIONS

Cabinet Size	A (in)	B (in)
All 'A' Cabinet Furnaces	14-1/2"	13-3/8"
All 'B' Cabinet Furnaces	17-1/2"	16-3/8"
All 'C' Cabinet Furnaces	21"	19-7/8"
All 'D' Cabinet Furnaces	24-1/2"	23-3/8"

LED INDICATOR

- Slow Green Flash
- Normal operation
- Slow Amber Flash
- Normal operation with call for heat
- Any Red Flash = Fault condition
- Any Rapid 4 Flash = Potential fault codes / conditions

MOST COMMON INSTALLATION CONFIGURATIONS (MORE OPTIONS AVAILABLE WITH INDUCER ROTATION, WHICH IS COVERED IN THE INSTALLATION MANUAL)

MULTI-POSITION CONFIGURATION INFORMATION:

Ensure that all PVC venting has at least 1/4" per foot slope towards the furnace. Furnace is multi-position and may be installed in any of the configurations shown.

The furnace condensate pan is self priming and contains an internal trap. **Do not install an external condensate trap.**

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When drain hose routing changes are required (shown in red), be sure to cap all unused openings.

If rerouting hoses - excess length should be cut off so that no sagging loops will collect and hold condensate, which will cause the furnace to not operate.

