

# QUICK REFERENCE GUIDE

## 80% TWO STAGE ECM MULTI-POSITION RESIDENTIAL GAS FURNACES (33" TALL)

### NOTES:

- If the furnace is equipped with NOx screens and is to be used with LP (propane) gas, the screens must be removed prior to start-up.
- Drip leg in the gas line must be installed.
- The furnace controls require correct polarity on the power supply and a proper ground.
- Y & G must be connected to the control board for cooling operation.
- External filters required on all configurations.
- Electrical or gas entry is available on both casing sides.
- 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.
- Inlet gas pressure for natural gas should be 7" and for propane should be 11" w.c. Nominal manifold gas pressure is 3.5" for natural gas and 10" w.c. for propane at max. input.
- For downflow application the vent blower must be rotated 90 left or right as shown.

Models	Airflow CFM (Bottom Return without Filters)				Minimum Wire Size awg @ 75' One-Way	Maximum Over Current Protection
	0.5" ESP (Nominal) <sup>1</sup>					
	*D-A**	*C-A**	*B-A**	*A-A**		
TM(8,L)V060A12MP11	624	819	1007	1190	14	10
TM(8,L)V080B12MP11	578	810	991	1210	14	10
TM(8,L)V080C16MP11	1014	1228	1427	1631	14	15
TM(8,L)V100C16MP11	987	1210	1425	1605	14	15
TM(8,L)V100C20MP11	1256	1440	1620	2030	12	20
TM(8,L)V120C20MP11	1274	1493	1660	2065	12	20

Models	Input Rate		Total Unit Amps	Air Temp. Rise Max Input °F	Air Temp. Rise Min Input °F	Time For 1 ft <sup>3</sup> Natural Gas (1030 Btu/Ft <sup>3</sup> ) Seconds (On Max. Rate)
	Max	Min				
TM(8,L)V060A12MP11	60,000	39,000	9.0	30-60	20-50	62
TM(8,L)V080B12MP11	80,000	52,000	9.0	30-60	20-50	46
TM(8,L)V080C16MP11	80,000	52,000	12.0	30-60	20-50	46
TM(8,L)V100C16MP11	100,000	65,000	12.0	30-60	20-50	37
TM(8,L)V100C20MP11	100,000	65,000	14.0	30-60	20-50	37
TM(8,L)V120C20MP11	120,000	78,000	14.0	30-60	20-50	30

1. Other airflows are available. see Tech guide for all CFM options.

\* Cool Tap

\*\* Adjust Tap

### CLEARANCES

Application	Top	Front	Rear	Left Side	Right Side	Flue	Floor/Bottom	Closet	Alcove	Attic	Line Contact
Upflow	1	1	0	0	0	6	Combustible	Yes	Yes	Yes	No
Upflow B-Vent	1	1	0	0	0	1	Combustible	Yes	Yes	Yes	No
Downflow	1	1	0	0	0	6	1 <sup>1</sup>	Yes	Yes	Yes	No
Downflow B-Vent	1	1	0	0	0	1	1 <sup>1</sup>	Yes	Yes	Yes	No
Horizontal	1	1	0	0	0	6	Combustible	No	Yes	Yes	Yes <sup>2</sup>
Horizontal B-Vent	1	1	0	0	0	1	Combustible	No	Yes	Yes	Yes <sup>2</sup>

1. Special floor base or air conditioning coil required for use on combustible floor.

2. Line contact only permitted between lines formed by the intersection of the rear panel and side panel (top in horizontal position) of the furnace jacket and building joists, studs or framing.

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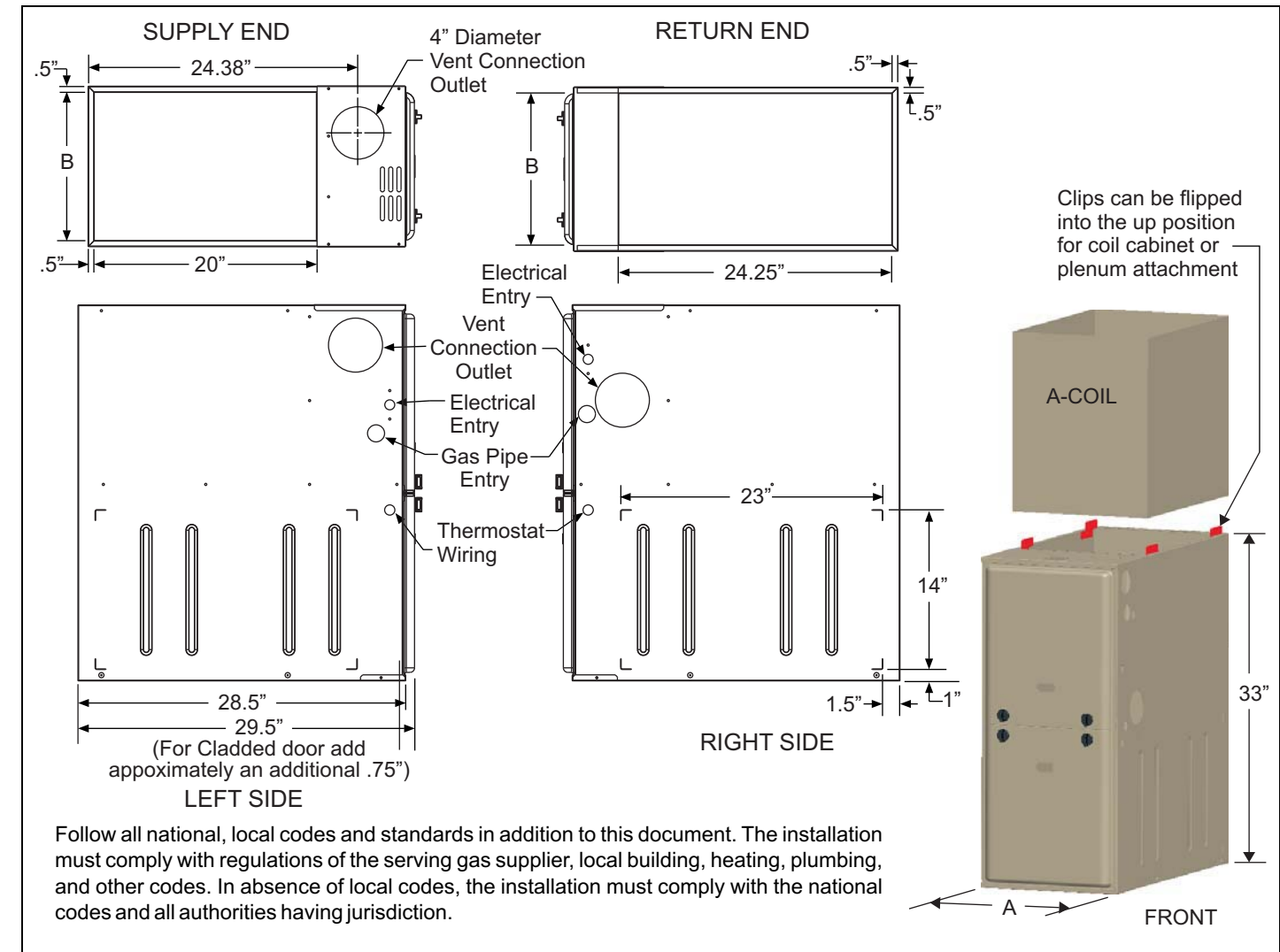


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Supersedes: Nothing

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



### LED INDICATOR

- Slow Green Flash - Normal operation in standby mode
- Slow Amber Flash - Normal operation with call for cooling
- Two Amber Flashes - Normal operation with call for heat
- Any Red Flash - Fault condition

### 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"

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

Furnace is multi-position and may be installed in any of the configurations shown.

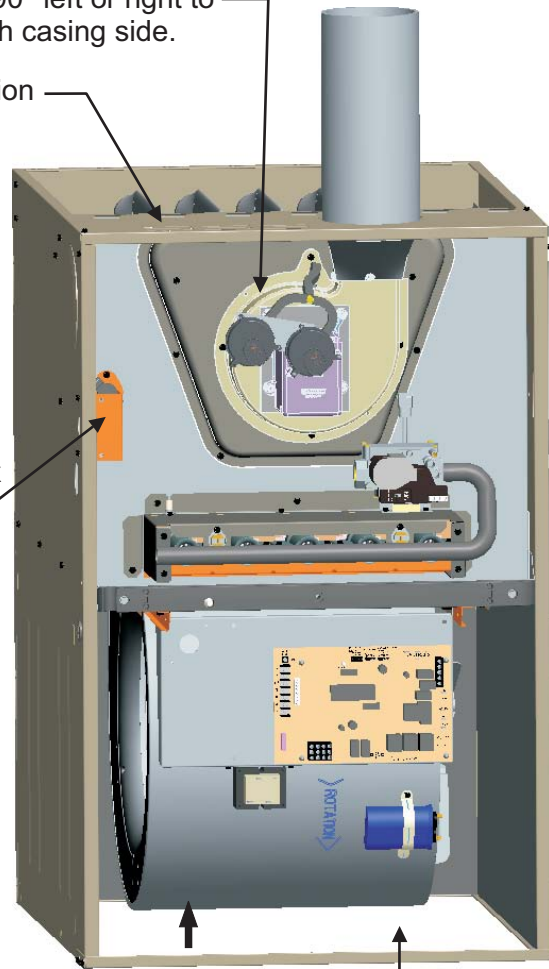
Inducer blower may be rotated 90° either way to vent through casing side, as shown below.

These are Category I units and the vent system must be installed in accordance with latest edition of the National Fuel Gas Code, Z223.1/NFPA 54, or in Canada, CSA B149.1.

Optional - Vent blower may also be rotated 90° left or right to vent through casing side.

Combustion Air Entry

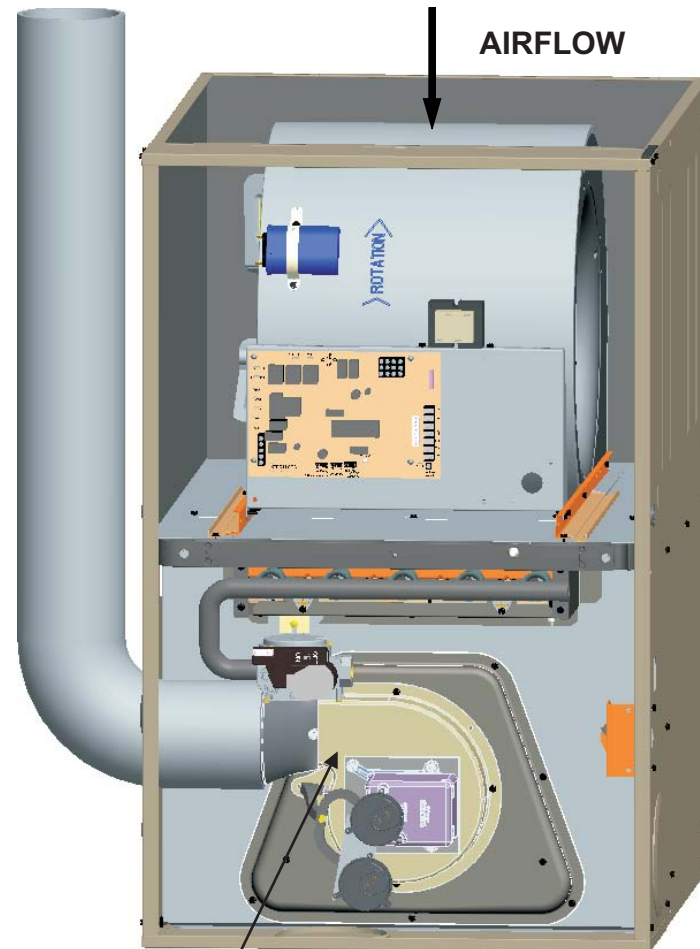
Junction Box (May be moved to other side)



AIRFLOW

UPFLOW

Bottom blockoff plate - Remove for bottom return applications



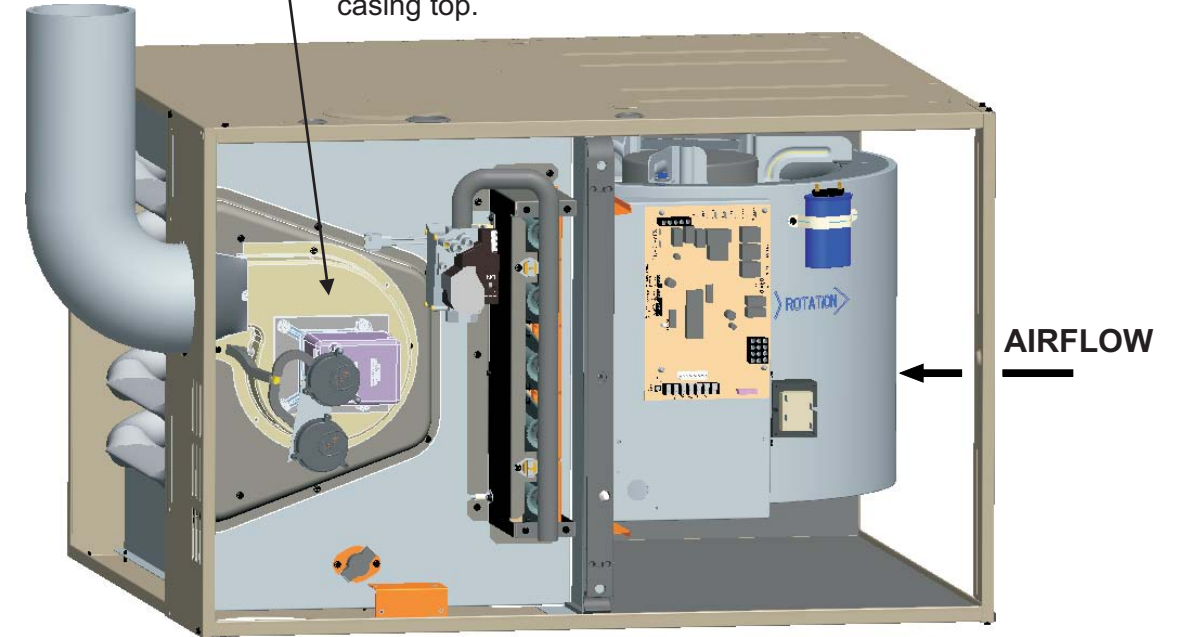
AIRFLOW

Vent blower must be rotated 90° left or right to vent through casing side.

DOWNFLOW

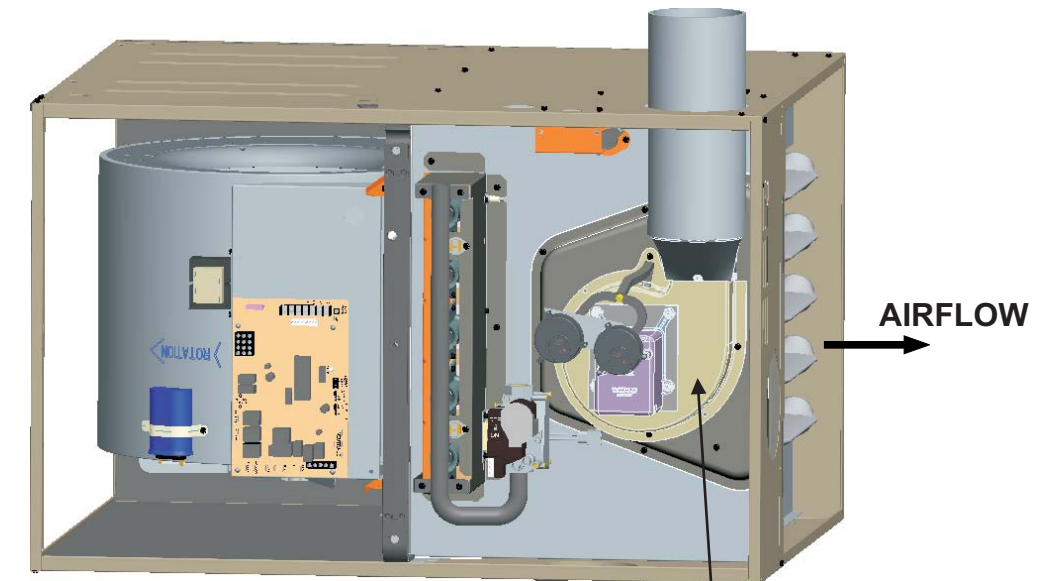
Must be installed on combustible floor base or coil cabinet to prevent blockage of combustible air openings

Vent blower may also be rotated 90° left or right to vent through casing top.



AIRFLOW

HORIZONTAL LEFT



AIRFLOW

HORIZONTAL RIGHT

Vent blower may also be rotated 90° left or right to vent through casing top.