

QUICK REFERENCE GUIDE

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

NOTES:

1. 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.
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. External filters required on all configurations.
6. Electrical or gas entry is available on both casing sides.
7. 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.
8. 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.
9. 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) | | | | | |
| | Low | Med-Lo | Med-Hi | High | | |
| TM(8,L)T060A12MP11 | 711 | 872 | 1042 | 1275 | 14 | 10 |
| TM(8,L)T080B12MP11 | 620 | 761 | 970 | 1195 | 14 | 10 |
| TM(8,L)T080C16MP11 | 1069 | 1205 | 1408 | 1602 | 14 | 15 |
| TM(8,L)T100C16MP11 | 1012 | 1367 | 1586 | 1820 | 14 | 15 |
| TM(8,L)T100C20MP11 | 1307 | 1674 | 2086 | 2478 | 12 | 20 |
| TM(8,L)T120C20MP11 | 1286 | 1580 | 1955 | 2338 | 12 | 20 |

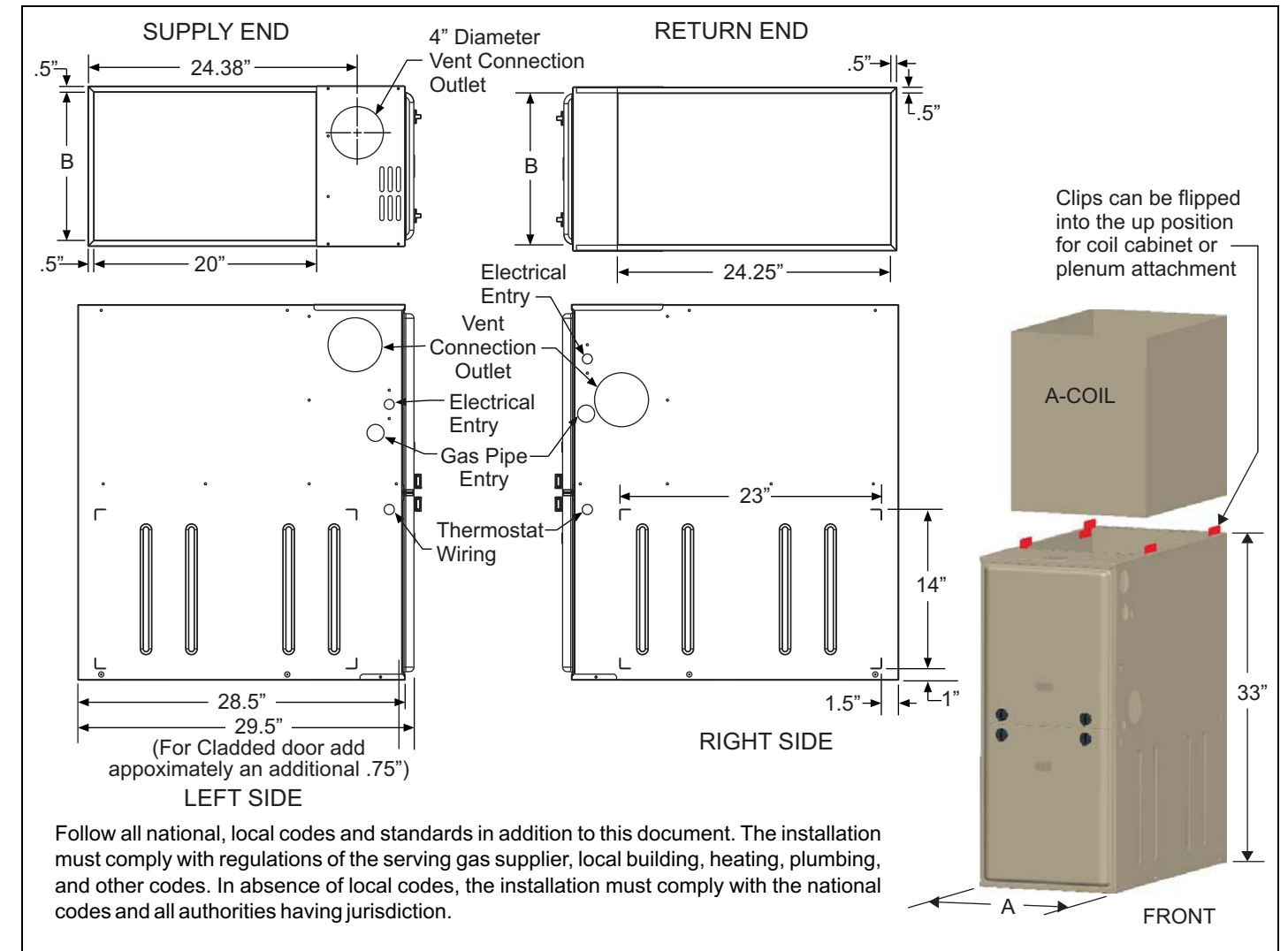
| Models | Input Rate | | Total Unit Amps | Air Temp. Rise Max Input °F High Fire | Air Temp. Rise Min Input °F Low Fire | Time For 1 ft ³ Natural Gas (1030 Btu/Ft ³) Seconds (On Max. Rate) |
|--------------------|------------|--------|-----------------|---------------------------------------|--------------------------------------|---|
| | Max | Min | | | | |
| TM(8,L)T060A12MP11 | 60,000 | 39,000 | 7.0 | 30-60 | 20-50 | 62 |
| TM(8,L)T080B12MP11 | 80,000 | 52,000 | 7.0 | 30-60 | 20-50 | 46 |
| TM(8,L)T080C16MP11 | 80,000 | 52,000 | 10.0 | 30-60 | 20-50 | 46 |
| TM(8,L)T100C16MP11 | 100,000 | 65,000 | 10.0 | 30-60 | 20-50 | 37 |
| TM(8,L)T100C20MP11 | 100,000 | 65,000 | 17.0 | 30-60 | 20-50 | 37 |
| TM(8,L)T120C20MP11 | 120,000 | 78,000 | 17.0 | 30-60 | 20-50 | 30 |

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 ¹ | Yes | Yes | Yes | No |
| Downflow B-Vent | 1 | 1 | 0 | 0 | 0 | 1 | 1 ¹ | Yes | Yes | Yes | No |
| Horizontal | 1 | 1 | 0 | 0 | 0 | 6 | Combustible | No | Yes | Yes | Yes ² |
| Horizontal B-Vent | 1 | 1 | 0 | 0 | 0 | 1 | Combustible | No | Yes | Yes | Yes ² |

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.

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.

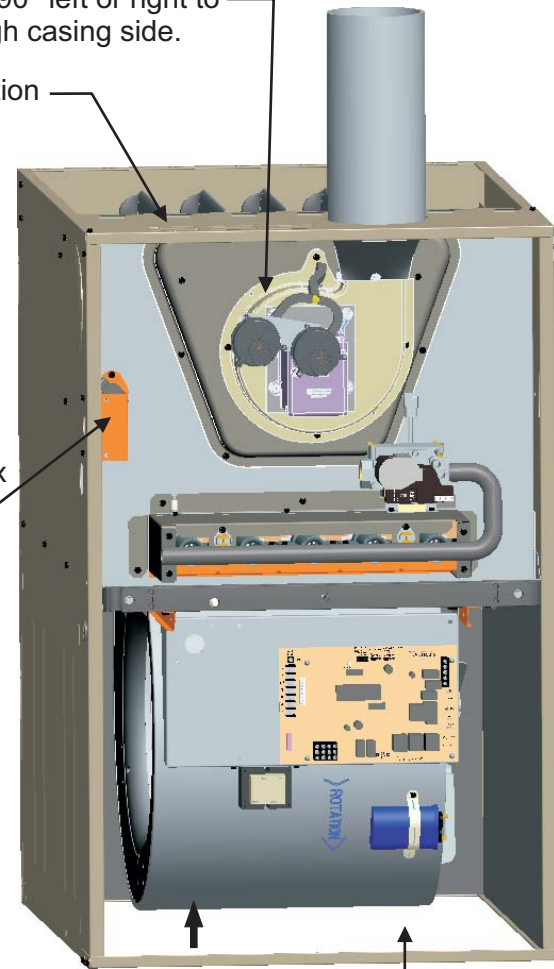
Inducer blower may be rotated 90° either way to vent through casing side, as shown below.

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

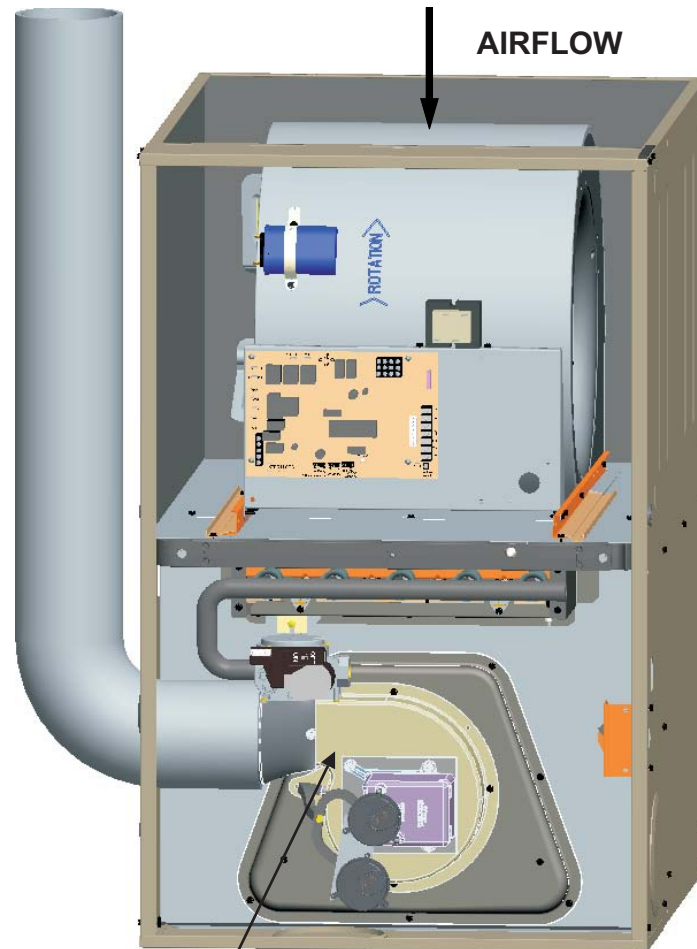
Junction Box (May be moved to other side)



AIRFLOW

UPFLOW

Bottom blockoff plate - Remove for bottom return applications



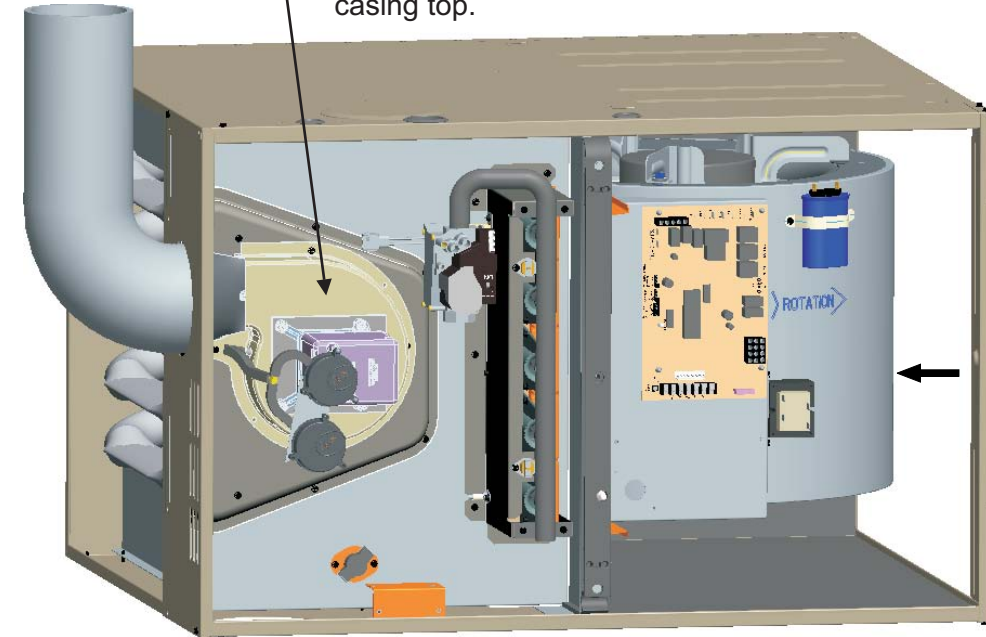
AIRFLOW

DOWNFLOW

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

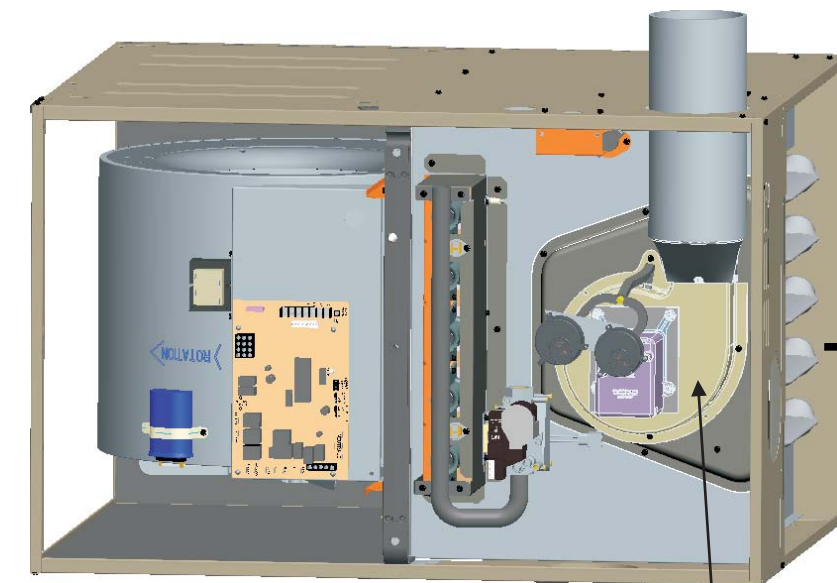
Must be installed on combustible floor base or coil cabinet to prevent blockage of combustible air openings

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.