

Notes:

- If the furnace is equipped with NOx screens and is to be used with LP (propane) gas, remove the screens before start-up.
 - Install the drip leg in the gas line.
 - The furnace controls require correct polarity on the power supply and an adequate ground.
 - Connect Y and G to the control board for cooling operation.
 - Use external filters for all configurations.
 - Electrical or gas entry is available on both casing sides.
 - For downflow application, the vent blower must be rotated 90° left or right as shown.
- Measure the supply air static pressure after the furnace before the indoor coil. Record this positive number. Measure the return air static pressure after the filter. Record this negative number. Treat the negative number as a positive number, and add it to the recorded supply static pressure reading. This sum is the total system external static pressure.
 - The inlet gas pressure must be 7 in. W.C. for natural gas and 11 in. W.C. for propane. The nominal manifold gas pressure is 3.5 in. W.C. for natural gas and 10 in. W.C. for propane at maximum input.

Model	Airflow CFM (bottom return without filters)				
	0.5 in. ESP (nominal)				
	Red wire (Low)	Yellow wire (Medium low)	Gray wire (Medium)	Blue wire (Medium high)	Black wire (High)
RL18040A12MPS1	775	900	1000	1100	1275
RL18060A12MPS1	675	750	850	975	1225
RL18080B12MPS1	750	900	1000	1175	1300
RL18080C16MPS1	950	1100	1225	1475	1575
RL18080C20MPS1	875	1225	1450	1600	1800
RL18100B12MPS1	725	850	1075	1250	1400
RL18100C16MPS1	925	1075	1325	1550	1750
RL18100C20MPS1	1025	1275	1475	1650	1825
RL18120C16MPS1	1000	1325	1550	1700	1925
RL18120C20MPS1	950	1225	1450	1600	1775
RL18130D20MPS1	1075	1425	1600	1775	1925

Note: Not all blower speeds are suitable for heating operation. Consult the *Installation Manual* for correct heating speed selection.

Model	Recommended fuse or circuit breaker (A)	Input rate (Btu/h)	Total unit (A)	Air temperature rise range (°F)	Time For 1 ft³ natural gas (1030 Btu/ft³) seconds on (rate)	Gas pipe connection, NPT (in.)
RL18040A12MPS1	15	40,000	8.2	20–50	92	1/2
RL18060A12MPS1	15	60,000	8.2	30–60	62	1/2
RL18080B12MPS1	15	80,000	8.7	35–65	46	1/2
RL18080C16MPS1	15	80,000	8.8	30–60	46	1/2
RL18080C20MPS1	20	80,000	13.8	25–55	46	1/2
RL18100B12MPS1	15	100,000	8.7	40–70	37	1/2
RL18100C16MPS1	15	100,000	11.1	40–70	37	1/2
RL18100C20MPS1	20	100,000	13.8	25–55	37	1/2
RL18120C16MPS1	15	120,000	11.1	40–70	31	1/2
RL18120C20MPS1	20	120,000	13.7	35–65	31	1/2
RL18130D20MPS1	20	130,000	13.7	35–65	28	1/2

Led indicator

Indication	Condition
Slow green flash	Normal operation in standby mode
Slow amber flash	Normal operation with call for heat
Any red flash	Fault condition

Quick Reference Guide

Non-condensing Standard ECM Single-Stage Multi-position/Low NOx Residential Gas Furnaces (33 in. tall) - Models: RL18

This document does not replace the Installation Manual, which you must refer to for detailed information.

Supply air end: 24.38 in. width, 20 in. depth, 0.5 in. height. 4 in. diameter vent connection outlet.

Return air end: 24.25 in. width, 0.5 in. height.

Left side: 28.5 in. and 29.5 in. widths.

Right side: 23 in. width, 14 in. height, 1.5 in. and 1 in. depths.

Front: 33 in. height, A width.

Indoor coil shown above the furnace.

Flanges can be folded up for coil cabinet or plenum attachment.

Electrical entry, Vent connection outlet, Gas pipe entry, Thermostat wiring.

Follow all national, local codes and standards in addition to this document. The installation must comply with regulations of the serving gas supplier, local building, heating, plumbing, and other codes. In absence of local codes, the installation must comply with the national codes and all authorities having jurisdiction.

AD0400-002

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

Clearances

Application	Top	Front	Rear	Left side	Right side	Flue	Floor/ bottom	Closet	Alcove	Attic	Line contact
Upflow	1	6	0	0	3	6	Combustible	Yes	Yes	Yes	No
Upflow B-vent	1	3	0	0	0	1	Combustible	Yes	Yes	Yes	No
Downflow	1	6	0	0	3	6	1 ¹	Yes	Yes	Yes	No
Downflow B-vent	1	3	0	0	0	1	1 ¹	Yes	Yes	Yes	No
Horizontal	1	6	0	0	3	6	Combustible	No	Yes	Yes	Yes ²
Horizontal B-vent	1	3	0	0	0	1	Combustible	No	Yes	Yes	Yes ²

1. Special floor base or indoor coil is 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.

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.

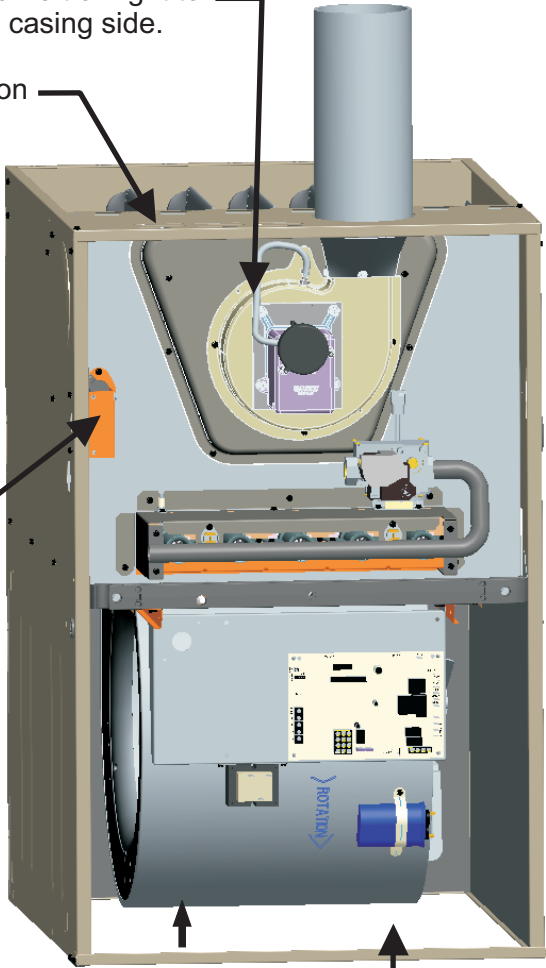
Inducer blower may be rotated 90° either way to vent through casing side, as shown below.

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

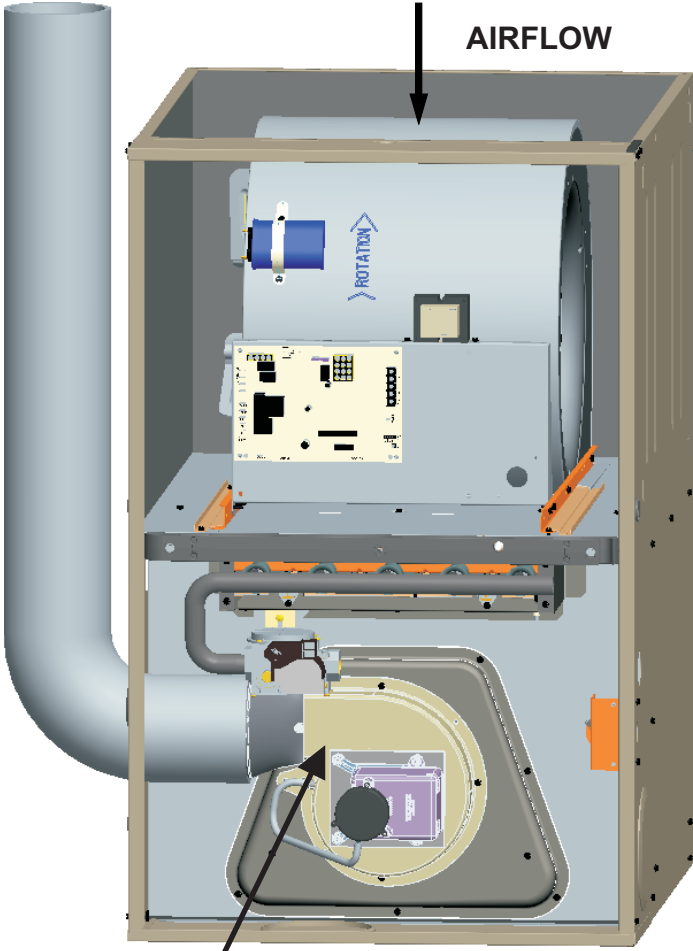
Junction Box
(May be moved to other side)



AIRFLOW

UPFLOW

Bottom blockoff plate
- Remove for bottom return applications



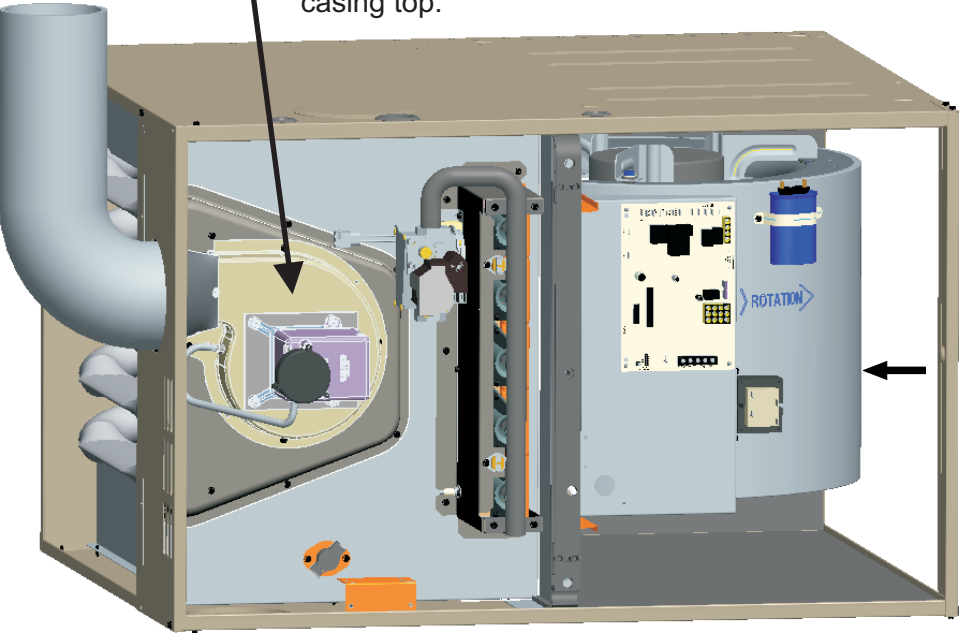
AIRFLOW

DOWNFLOW

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

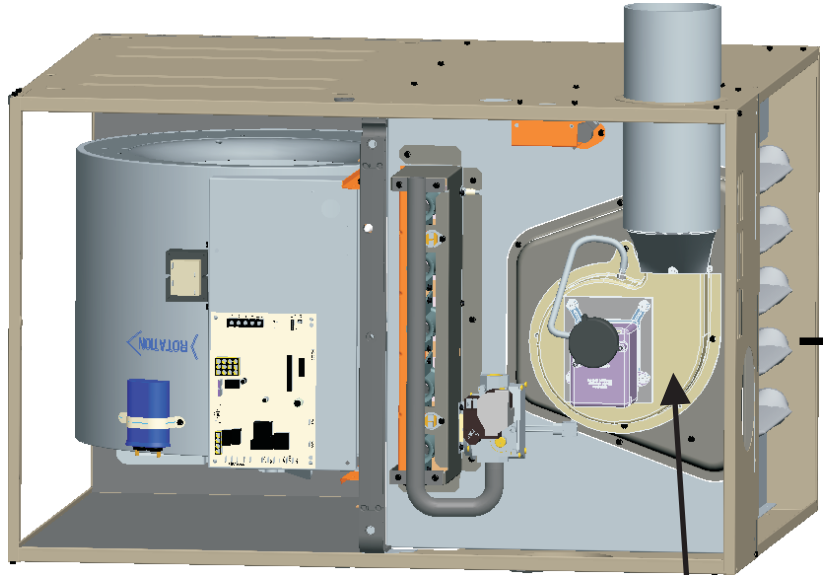
Must be installed on combustible floor base or coil cabinet to prevent blockage of combustible air openings

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.