QUICK REFERENCE GUIDE

80% SINGLE STAGE 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) 0.5" ESP (Nominal)				Minimum Wire Size awg @ 75' One-Way
	Low	Med-Lo	Med-Hi	High	
(T,G)G(8,L)S040A08MP11	489	545	605	717	14
(T,G)G(8,L)S060A10MP11	708	823	942	1004	14
(T,G)G(8,L)S060A12MP11	711	872	1042	1275	14
(T,G)G(8,L)S080B12MP11	620	761	970	1195	14
(T,G)G(8,L)S080C16MP11	1069	1205	1408	1602	14
(T,G)G(8,L)S080C22MP11	1263	1603	2042	2448	12
(T,G)G(8,L)S100B12MP11	614	777	992	1223	14
(T,G)G(8,L)S100C16MP11	1012	1367	1586	1820	14
(T,G)G(8,L)S100C20MP11	1307	1674	2086	2478	12
(T,G)G(8,L)S120C16MP11	1002	1179	1382	1600	14
(T,G)G(8,L)S120C20MP11	1286	1580	1955	2338	12
(T,G)G(8,L)S130D20MP11	1324	1675	2045	2399	12

Models	Maximum Over Current Protection	Input Rate	Total Unit Amps	Air Temperature Rise Range °F	Time For 1 ft^3 Natural Gas ($1030\ Btu/Ft^3$) Seconds On (Rate)
(T,G)G(8,L)S040A08MP11	10	40,000	4.5	25-55	93
(T,G)G(8,L)S060A10MP11	10	60,000	6.0	25-55	62
(T,G)G(8,L)S060A12MP11	10	60,000	7.0	30-60	62
(T,G)G(8,L)S080B12MP11	10	80,000	7.5	35-65	46
(T,G)G(8,L)S080C16MP11	15	80,000	10.0	25-55	46
(T,G)G(8,L)S080C22MP11	20	80,000	16.0	25-55	46
(T,G)G(8,L)S100B12MP11	10	100,000	7.5	40-70	37
(T,G)G(8,L)S100C16MP11	15	100,000	10.0	35-65	37
(T,G)G(8,L)S100C20MP11	20	100,000	17.0	25-55	37
(T,G)G(8,L)S120C16MP11	15	120,000	10.0	40-70	30
(T,G)G(8,L)S120C20MP11	20	120,000	17.0	30-60	30
(T,G)G(8,L)S130D20MP11	20	130,000	17.0	35-65	28

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
Three Amber Flashes - Normal operation, burner is on at end of thermostat cycle.
Six Amber Flashes - Normal operation with call for heat pump heating.
Any Red Flash - Fault condition

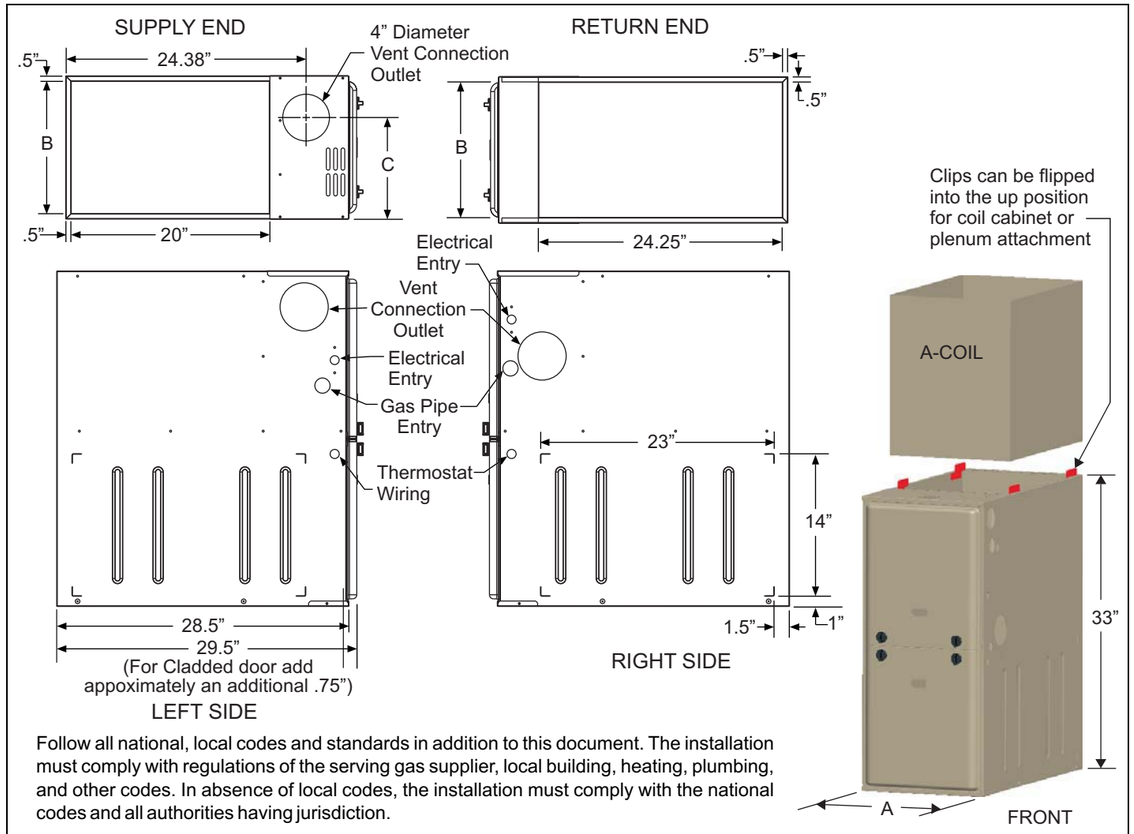
DIMENSIONS

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"
All 'D' Cabinet Furnaces	24”	23-7/8"

530287-URG-A-0609
Supersedes: Nothing

Johnson Controls Unitary Products
5005 York Drive
Norman, OK 73069

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



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.

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]

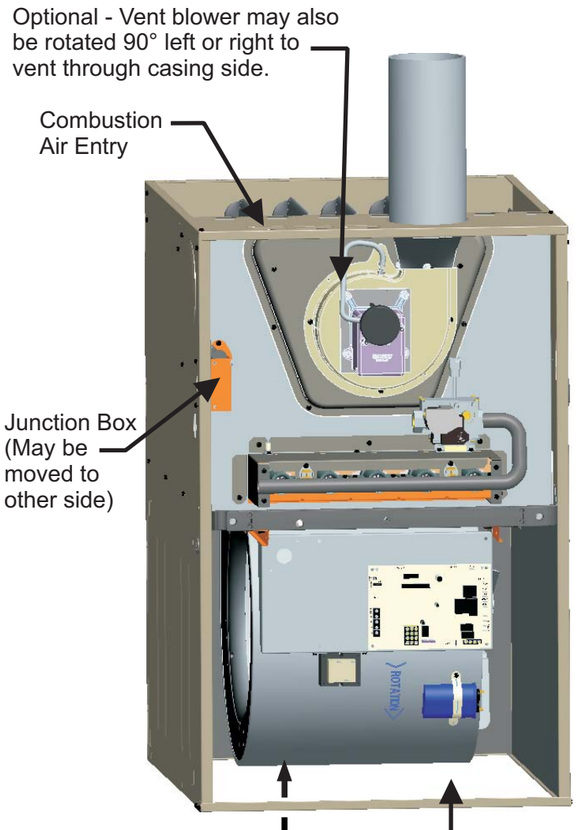
1. Special floor base or air conditioning coil required for use on combustible floor.
2. Line contact only permitted between lines formed by the intersection of the rear panel and side panel (top in horizontal position) of the furnace jacket and building joists, studs or framing.

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

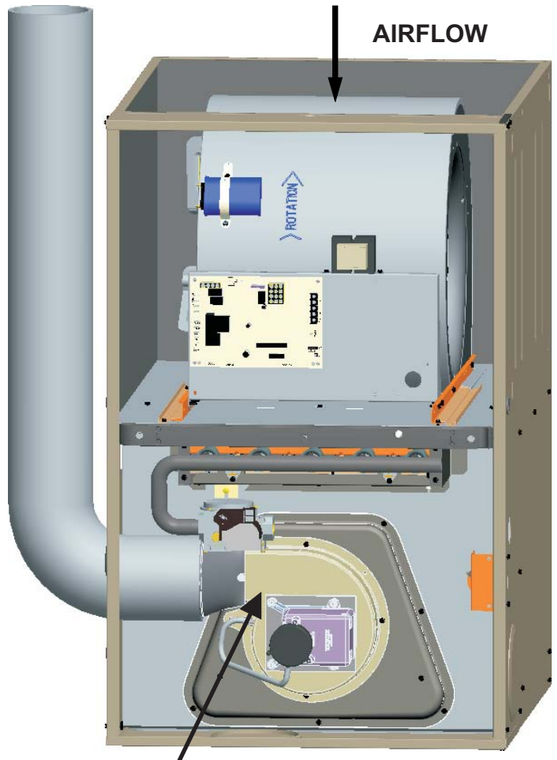
Furnace is multi-position and may be installed in any of the configurations shown.

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.

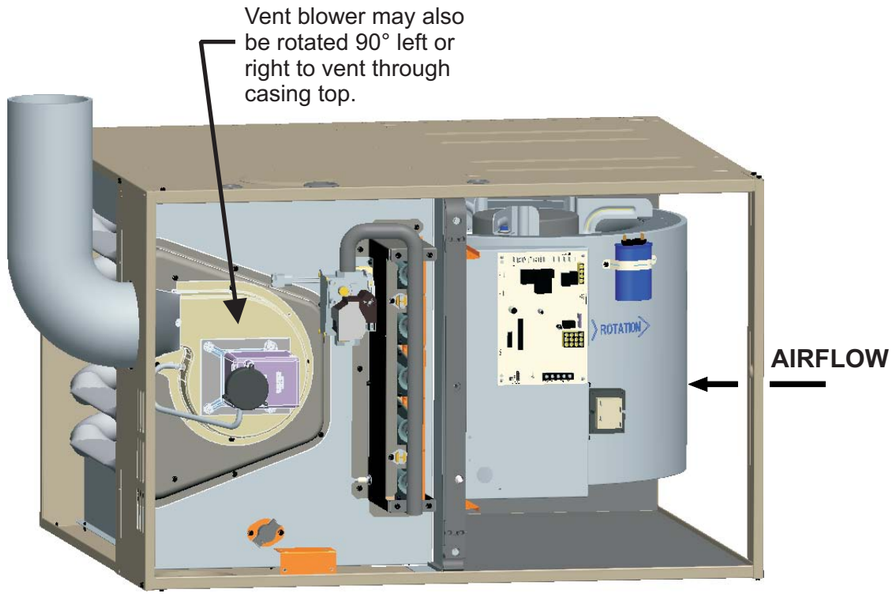


UPFLOW

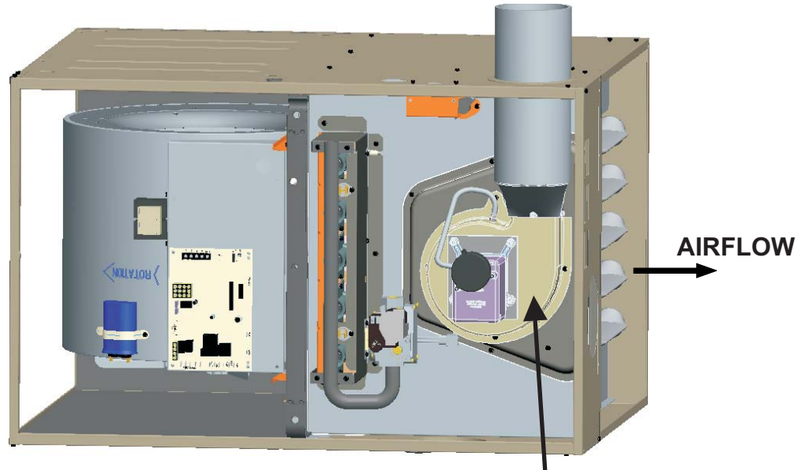


DOWNFLOW

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



HORIZONTAL LEFT



HORIZONTAL RIGHT