Notes:

- See the information about condensate management and drain hose plumbing for different configurations provided in this document. No hose clamps are needed for the condensate pan hook up.
- Install a drip leg in the gas line.
- The furnace controls require correct polarity on the power supply and a proper ground.
- Connect **Y** and **G** to the control board for cooling operation.
- 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 to get the total system external static pressure.

NOTICE

Gas manifold pressure must be set on high fire before adjusting low fire 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.The values are 1.6 in. for natural gas and 4.0 in. for propane on low fire.
- If a third-party indoor coil containing a thermoplastic drain pan is used in the upflow or horizontal position, an extra 2 in. minimum spacing may be needed to ensure against drain pan distortion.
- Use external filters for all configurations.
- Electrical entry is available on both sides of the casing.
- All 33 in. 96% and 97% furnaces are approved for two-pipe systems. For single-pipe systems, it is best practice to install the combustion air coupling provided and install approximately 18 in. of PVC pipe on the furnace.
- Do not install an external condensate trap on these furnaces as it prevents the furnaces from operating correctly.

Furnace input rate in kBtu/h and size	Airflow CFM (bottom return without filters) 0.5 in. ESP (nominal)					Total unit (A)	Recommended fuse or circuit breaker (A)
	Red wire (low)	Yellow wire (medium low)	Gray wire (medium)	Blue wire (medium high)	Black wire (high)		
40A10	350	450	725	900	1125	8.8	15
60B12	550	700	875	1000	1200	8.8	15
80B12	475	825	950	1175	1300	8.8	15
80C16	750	1075	1175	1450	1625	10.8	20
100C16	650	1025	1275	1575	1675	10.8	20
100C20	975	1175	1575	1750	1875	14.6	20
120D20	1025	1225	1500	1725	2000	14.6	20

Note: Not all blower speeds are suitable for heating operation. Refer to the installation instructions for correct heating speed selection.

Furnace input rate in kBtu/h and size	Maximum vent equivalent[1] (ft)			Temperature rise range (°F)		Time for 1 ft^3 natural gas (1030 Btu/ft^3) seconds on (rate)	Gas pipe connection, NPT (in.)
	2 in.	3 in.	4 in.	Maximum input(ºF)	Minimum input(ºF)		
40A10	65	90	150	30 to 60	25 to 55	92	1/2
60B12	65	90	150	35 to 65	30 to 60	62	1/2
80B12	55	80	145	40 to 70	30 to 60	46	1/2
80C16	65	90	150	40 to 70	25 to 55	46	1/2
100C16	20	65	130	40 to 70	30 to 60	37	1/2
100C20	20	65	130	35 to 65	30 to 60	37	1/2
120D20	—	90	150	45 to 75	30 to 60	30	1/2

1. For venting purposes, one 90° sweep elbow is equal to 5 ft of venting length, and one 90° standard elbow is equal to 10 equivalent ft of vent length. Note that 3 vent elbows are included in these calculations. The minimum required vent length is 5 ft.

LED indicator

Indication	Condition
Slow green flash	Standby, normal operation, fan only, and call for cooling
Slow amber flash	Normal operation with call for heat
Any red flash	Fault condition
Four amber flashes	Y call without G call
Rapid amber flashes	Amber LED light turns 1/10 s on and 1/10 s off indicating low flame signal warning

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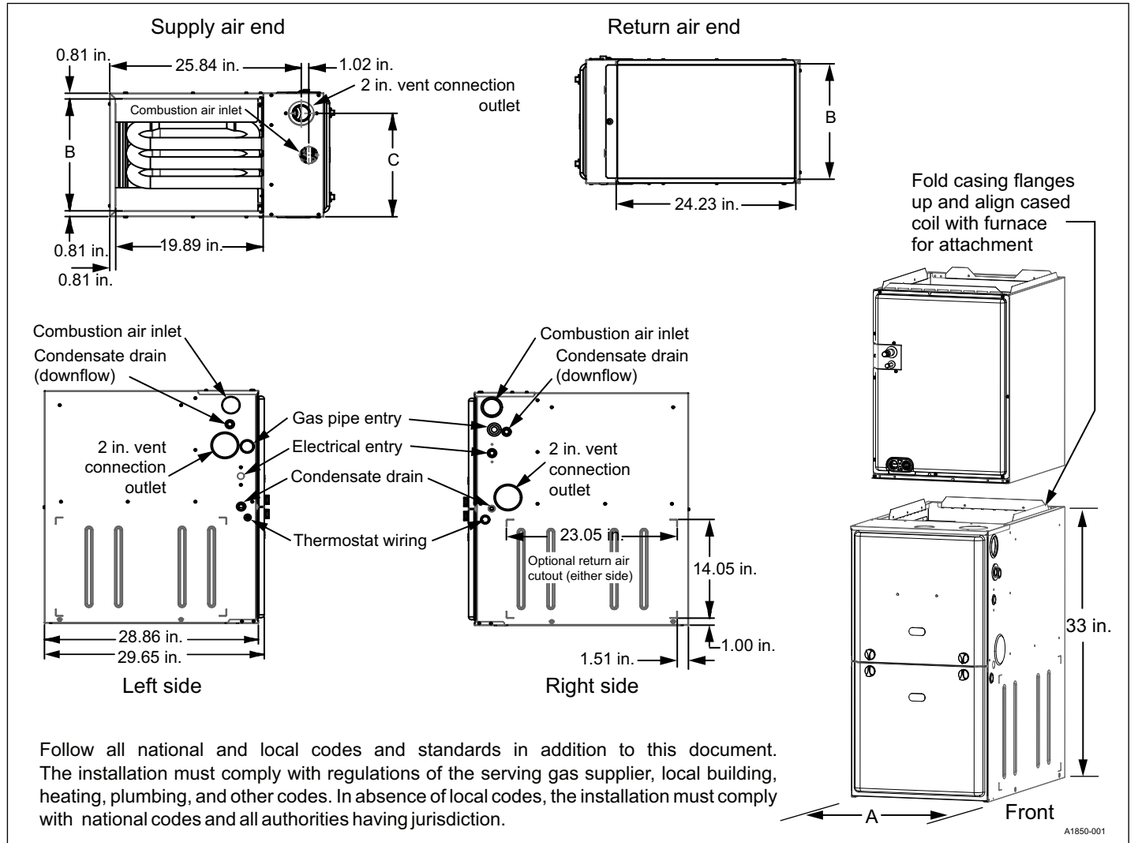
Supersedes: Nothing

York International Corp.
5005 York Drive
Norman, OK 73069

Quick Reference Guide

Condensing Standard ECM Two-Stage Multi-Position Residential Gas Furnaces (33 in. tall) - Y92E Series

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



Follow all national and 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 national codes and all authorities having jurisdiction.

	Cabinet size	A (in.)	B (in.)	C (in.)
Dimensions	All A cabinet furnaces	14.5	13.4	11.7
	All B cabinet furnaces	17.5	16.4	14.7
	All C cabinet furnaces	21.0	19.8	18.2
	All D cabinet furnaces	24.5	23.4	21.7

Clearances

Application	Upflow (in.)	Downflow (in.)	Horizontal (in.)
Top (in.)	1	0	0
Vent (in.)	0	0	0
Rear (in.)	0	0	0
Side (in.)	0	0	1
Front[1] (in.)	0	0	0
Floor	Combustible	Combustible[2]	Combustible
Closet	Yes	Yes	Yes
Line contact	No	No	Yes

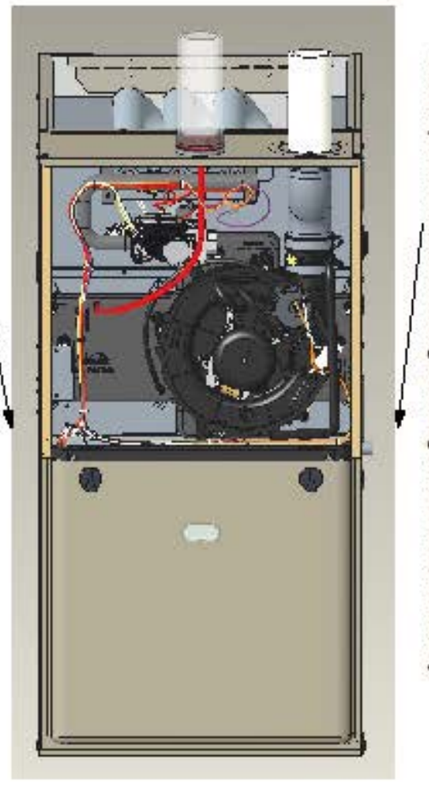
1. Ensure to leave a 24 in. clearance in front and a 18 in. clearance on side for service access.
2. A special sub-base is required for downflow applications on combustible floors.

Note: All furnaces are approved for alcove and attic installation.

The most common installation configurations are shown below. More options are 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 in/ft slope towards the furnace.
The furnace is multi-position and can be installed in any of the configurations shown.
The furnace condensate is self-priming and contains an internal trap.
Do not install an external condensate trap.
When drain hose routing changes are required, you must cap all unused openings.
If rerouting hoses, cut off excess length so that no sagging loops collect and hold condensate, causing the furnace not to operate.

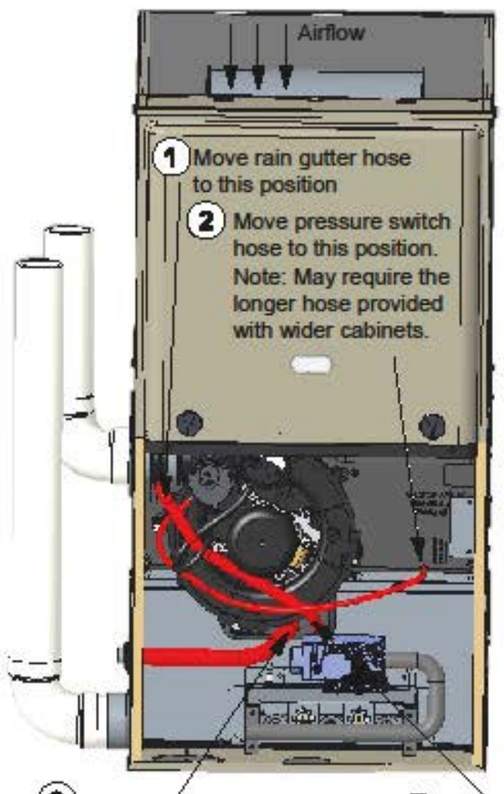
Upflow as received



For 100k and 120k input furnaces, the condensate drain is plumbed toward the left casing outlet from the factory

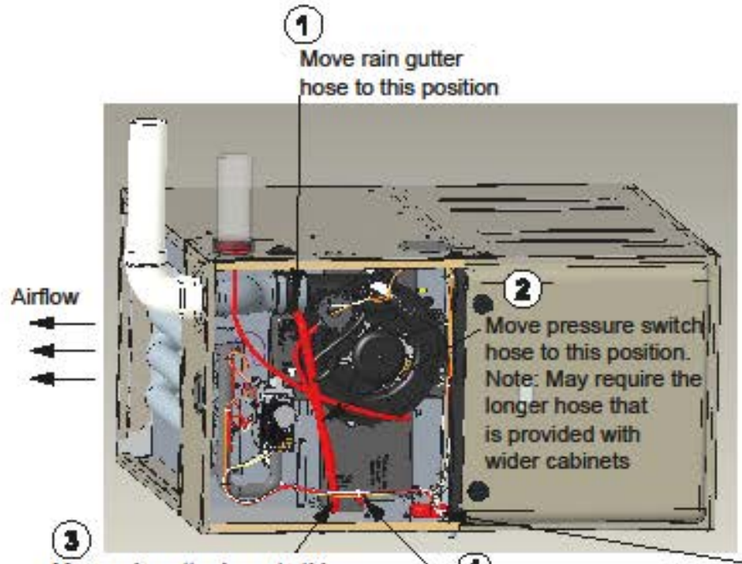
For 040k, 060k, and 080k input furnaces, the condensate drain is plumbed toward the right casing outlet from the factory

Downflow

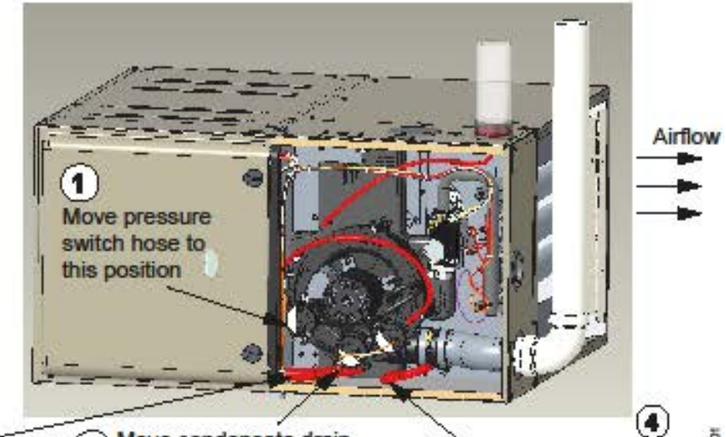


Inducer must be rotated 90° in either direction for downflow installation

Horizontal - left inducer as received



Horizontal - right inducer as received



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In upflow and downflow installations, condensate drain hose may go out either side