



TRANE J951X Single Stage Condenser Unit With Air Handler Installation Guide

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TRANE J951X Single Stage Condenser Unit With Air Handler



Product Information

The J951X* is a high efficiency, single stage condensing gas furnace designed for upflow or horizontal installation. It has an AFUE rating of 95.0% and an input range of 38,000 – 120,000 Btuh. The furnace is certified by CSA for application in Canada and the United States. It features a flush jacket for a pleasing appearance.

Features and Benefits

- High efficiency with an AFUE rating of 95.0%
- Single stage gas valve
- Flame sensor for safe operation
- Roll-out switch and main air limit switch for added safety
- Inducer limit switch and pressure switch for proper ventilation
- Igniter and gas valve for reliable ignition
- Furnace control board for easy operation
- Transformer for power supply
- Motor control board and blower assembly for efficient air distribution

Dimensions

Model #	Dimension – A	Dimension – B	Dimension – C
038BU	17 1/2 inches	15 7/8 inches	16 1/8 inches
054BU	21 inches	19 3/8 inches	19 5/8 inches
072CU	24 1/2 inches	22 7/8 inches	23 1/8 inches
090CU	–	–	–
108DU	–	–	–
120DU	–	–	–

Venting

All models are approved for vertical non-direct (1 pipe) and direct (2 pipe) venting applications. The specified sizes and allowable lengths can be found in the Vent Table below:

Model #	Single Pipe Length (ft.) with 1 long radius elbow*	Dual Pipe Length (ft.) with 1 long radius elbow on each pipe*
038BU	50 ft.	70 ft.
054BU	50 ft.	70 ft.
072CU	70 ft.	90 ft.
090CU	70 ft.	90 ft.
108DU	70 ft.	90 ft.
120DU	N/A	90 ft.

Product Usage Instructions

1. Choose a suitable location for installation such as a utility room, basement, alcove, or closet.
2. Ensure the furnace is free standing or enclosed in an alcove or closet.
3. If installing as an upflow/horizontal unit, make sure it is positioned correctly for upflow or horizontal application.
4. Connect the necessary gas and electrical connections according to local codes and regulations.
5. Make sure all gas furnace components are properly installed and connected, including the flame sensor, finish flange, roll-out switch, main air limit switch, inducer limit switch, pressure switch (inducer), inducer assembly, blower door switch, burner assembly, igniter, gas valve, furnace control board, pressure switch (condensate), transformer, motor choke, motor control board, and blower assembly.
6. Refer to the model identification code to determine the specific features of your furnace.
7. Refer to the specifications table to understand the heating capacity, AFUE rating, motor specifications, and shipping weight of your specific model.
8. If venting the furnace, refer to the vent table to determine the appropriate venting configuration and lengths.
9. Follow the manufacturer's instructions for any additional steps or precautions specific to your model.

TECHNICAL SPECIFICATIONS

J951X*

High Efficiency, Single Stage Condensing, Upflow/Horizontal Gas Furnace Models

95.0 AFUE 38,000 – 120,000 Btuh Input

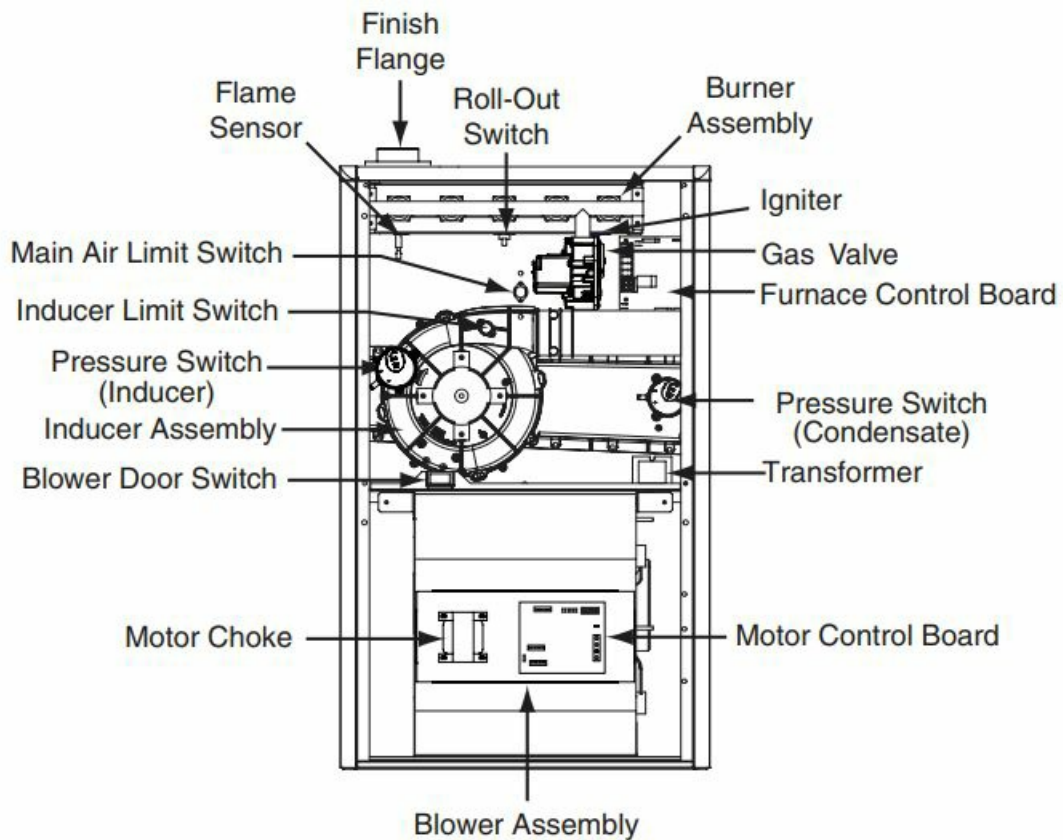
The high efficiency upflow gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. Upflow/horizontal units come ready for upflow or horizontal application. The extended flush jacket provides a pleasing “appliance appearance.” Design certified by CSA for application in Canada and the United States.

FEATURES and BENEFITS

- 100% fired and tested: All units and each component are tested on the manufacturing line.
- 30 second blower delay at start-up assures a warm duct temperature at furnace start-up. Adjustable blower off settings (60, 90, 120 and 180 seconds).
- 30 second post purge increases life of heat exchanger.
- Hot surface igniter: Innovative application of a silicon nitride type igniter.
- Flexible category IV venting system: May be vertically or horizontally vented using either a one-pipe or two-pipe system for maximum flexibility in installation.
- High Static Blowers: All models equipped with high static blowers.
- Low Boy Height: Easy to apply in low ceiling applications, works well with taller high SEER coils, easier to handle and install.
- Tubular primary heat exchanger: Heavy gauge aluminized steel heat exchanger and stainless steel secondary heat exchanger assures a long life.
- 60 second fixed cooling cycle blower-off delay (TDR) increases cooling performance. · Multi-speed direct drive blower: Designed to give a wide range of cooling capacities. Switches on PCB, provide ultra easy motor speed selection.
- LP convertible: Simple burner orifice and regulator spring change for ease of convertibility.
- Incorporates integrated control board with connections for electronic air cleaner and humidifier.
- Two piece door design enhances furnace appearance and uses captured screws to prevent losing door screws.
- Blower Compartment: Sealed door to reduce air leakage and insulated for ultra quiet operation.
- Sealed Vestibule reduces burner and inducer sound levels. · Furnace Air Leakage: These furnaces comply with Energy Star cabinet air leakage requirement of less than or equal to 2%. Keep the conditioned air flowing to where it's needed.
- PolyPro by DuraVent: These furnaces have been tested with and are approved to be installed with DuraVent's PolyPro venting system.

GAS FURNACE COMPONENTS

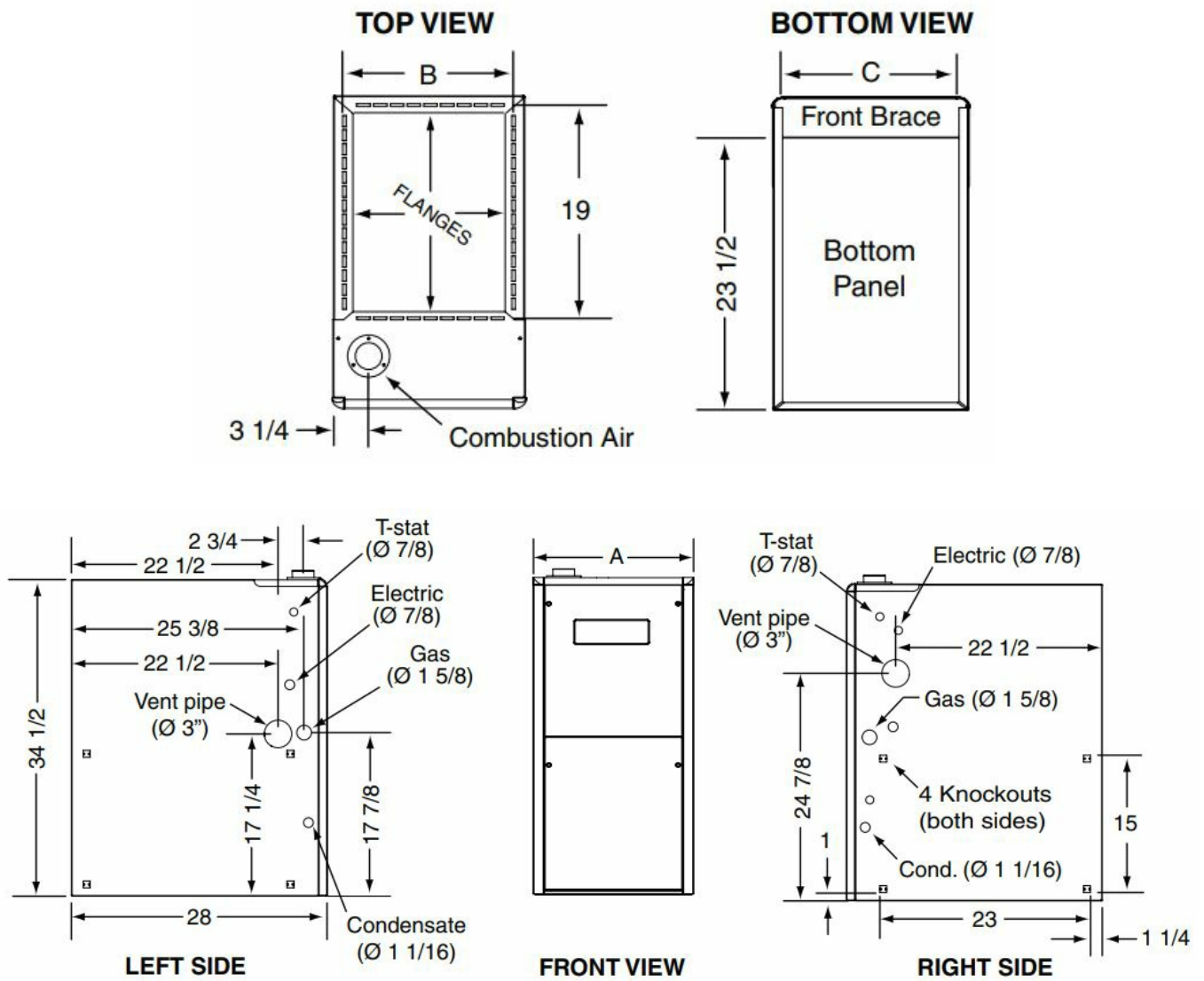
UPFLOW / HORIZONTAL FURNACE



DIMENSIONS

J951X* Upflow / Horizontal Furnaces			
Model #'s	Dimension -A-	Dimension -B-	Dimension -C-
038BU	17 1/2	15 7/8	16 1/8
054BU			
072CU	21	19 3/8	19 5/8
090CU			
108DU	24 1/2	22 7/8	23 1/8
120DU			

NOTE: Dimensions shown in inches.



VENTING

All models are approved for vertical non direct (1 pipe) and direct (2 pipe) venting applications. See Vent Table below for specified sizes and allowable lengths.

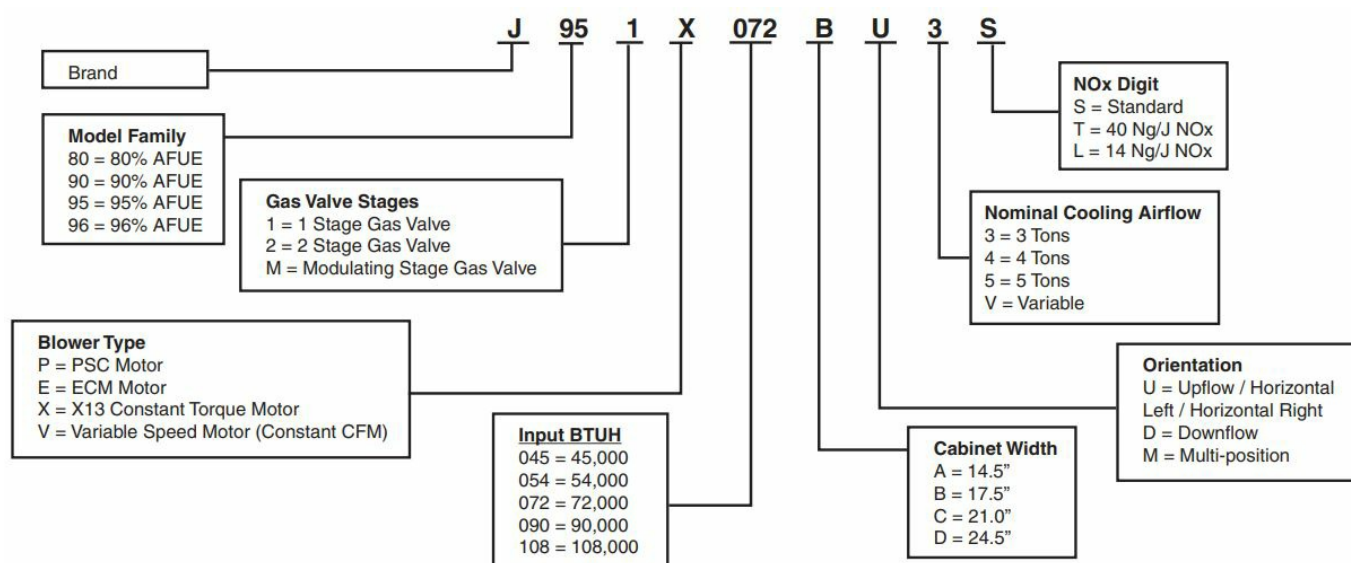
VENT TABLE

	SINGLE PIPE LENGTH (FT.) with 1 long radius elbow*		DIRECT VENT, DUEL PIPE LENGTH (ft.) WITH 1 long radius elbow on each pipe*	
	OUTLET	OUTLET	INLET/OUTLET	INLET/OUTLET
MODELS	2"	3"	2"	3"
038BU	50	70	50	70
054BU	70	90	70	90
072CU	50	90	50	90
090CU	60	90	60	90
108DU	N/A	90	N/A	90
120DU	N/A	90	N/A	90

NOTE:

1. Subtract 2.5 ft. for each additional 2" elbow and 3.5 ft. for each additional 3" elbow.
2. Two 45 degree elbows are equivalent to one 90 degree elbow.
3. One short radius elbow is equivalent to two long radius elbows.
4. Do not include termination elbows in calculation of vent length.
5. This table is applicable for elevations from sea level to 2000 ft. For higher elevations decrease vent pipe lengths by 8% per 1000 ft. of altitude.
6. Only the listed pipe materials are approved for use with J951x Condensing Furnaces.

MODEL IDENTIFICATION CODE



SPECIFICATIONS

J951X*U MODEL NUMBERS	038BU	054BU	072CU	090CU	108DU	120DU
Input – BTUH	38,000	54,000	72,000	85,000	108,000	115,000
Heating Capacity – BTUH	36,000	51,000	68,000	81,000	103,000	109,000
AFUE	95.0/94.0*	95.0/90.0*	95.0/90.0*	95.0/94.0*	95.0/90.0*	95.0/91.2
Motor H.P. – Speed – Type	3/4 – 5 – ECM	3/4 – 5 – ECM	3/4 – 5 – ECM	1 – 5 – ECM	1 – 5 – ECM	1 – 5 – ECM
Motor FLA	8.8	8.8	8.8	11.5	11.5	11.5
Rated Ext. SP – In. W.C.	0.5	0.5	0.5	0.5	0.5	0.5
Temperature Rise Range – F	25-55	30-60	35-65	35-65	35-65	40-70
Shipping Weights (lbs)	95	95	110	134	136	156

AFUE for Upflow/Horizontal application.

ACCESSORIES


KITS	
Description	SKU
2" Concentric vent kit, Canadian and US approved	904952
3" Concentric vent kit, Canadian and US approved	904953
2" Side wall vent kit	904617
3" Side wall vent kit	904347
U.S. LP Conversion kit (0 to 10,000 ft.)	905028
Canada LP Conversion kit (0 to 4,500 ft.)	905029
Bottom return filter 20 per box, "B" cabinet	904916
Bottom return filter 20 per box, "C" cabinet	904917
Bottom return filter 20 per box, "D" cabinet	904918
Side return filter kit	541036
Neutralizer kit	902377
"B" Cabinet variable speed, high efficiency, VSHE	904877
"C" Cabinet variable speed, high efficiency, VSHE	904878
"D" Cabinet variable speed, high efficiency, VSHE	904879
Furnace Twinning Kit	1010035

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (07/2022)

596F-0722 (Replaces 596F-0820)

Documents / Resources

	<p>TRANE J951X Single Stage Condenser Unit With Air Handler [pdf] Installation Guide</p> <p>J951X Single Stage Condenser Unit With Air Handler, J951X, Single Stage Condenser Unit With Air Handler, Stage Condenser Unit With Air Handler, Condenser Unit With Air Handler, Unit With Air Handler, Air Handler, Handler</p>
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References

- [Clean Air Furnace Rebate Program](#)