

J801X(*)L Series

Single Stage Upflow/Horizontal Gas Furnaces

Induced Draft - 80+ AFUE, Ultra-Low NOx
Input 55,000 - 100,000 Btuh

The gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. The rounded corner jacket provides a pleasing “appliance appearance.” Design certified by CSA for application in the United States.



This furnace series is approved and certified by the SCAQMD and the SJVAPC Districts in the state of California with NOx levels below 14 ng/J when operating on natural gas.

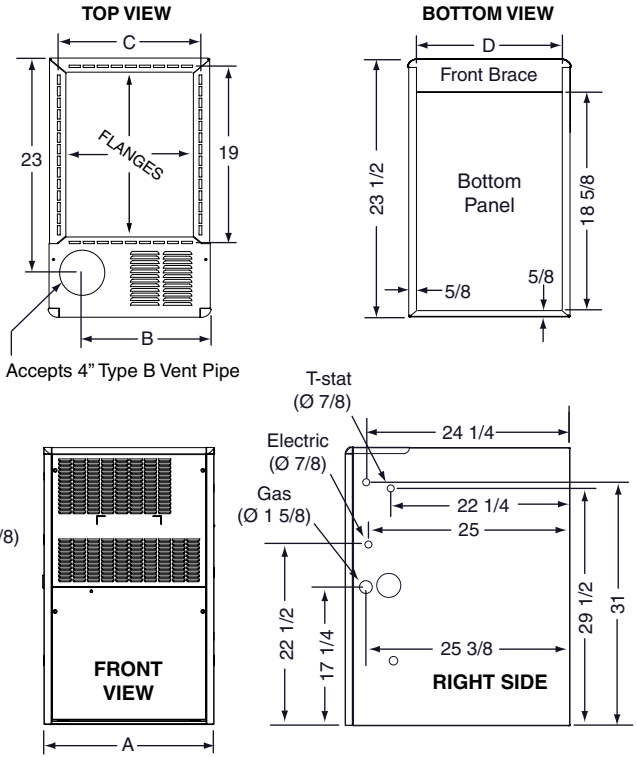
FEATURES and BENEFITS

- **Ultra-low emissions:** 65% less NOx than standard furnaces.
- **100% fired and tested:** All units and each component are tested on the manufacturing line.
- **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 assures a long life.
- **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 igniter.
- **Color coded wire harness:** Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- **High static blowers:** All models equipped with high static blowers.
- **60 second cooling cycle blower-off delay (TDR):** increases cooling performance.
- **Flexible category I venting system:** May be vented with dedicated venting system or common vented with other category one appliances.
- **High efficiency blower kits:** Maximize efficiencies and provide better temperature control, humidity control and air distribution.
- **Multi-speed direct drive blower:** Energy-efficient, brushless DC (ECM). Designed to give a wide range of cooling capacities. Switches on PCB, provide ultra easy motor speed selection.
- **Diagnostic lights for easy troubleshooting without counting flashes:** Dedicated light for flame signal strength and 2 lights in combination to indicate all other fault codes with easy to recognize states without counting flashes.
- **Integrated control board:** Incorporates connections for electronic air cleaner and humidifier. Ergonomically located for ease of service.
- **Two piece door design:** Enhances furnace appearance and uses captured screws to prevent losing door screws.
- **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.

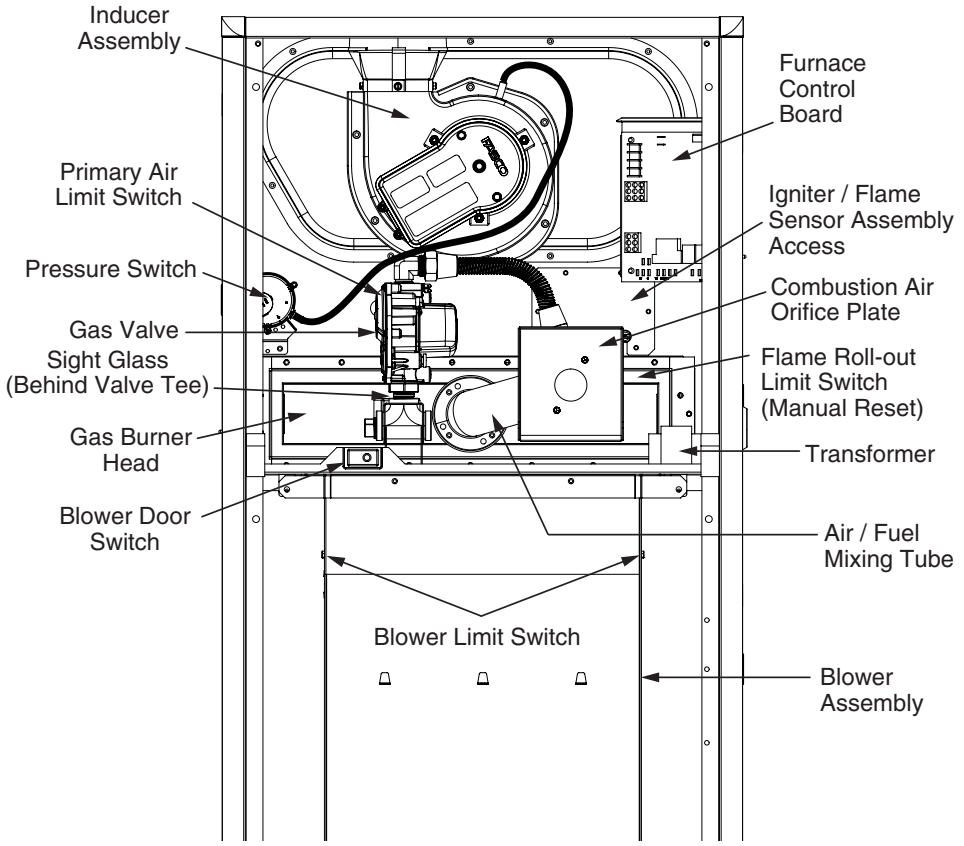
GAS FURNACE DIMENSIONS

| ULTRA-LOW NOX UPFLOW/HORIZONTAL FURNACE | | | | |
|---|----------|----------|----------|----------|
| MODEL #'S | DIM. -A- | DIM. -B- | DIM. -C- | DIM. -D- |
| 055U | 14 1/4 | 10 3/4 | 12 5/8 | 12 7/8 |
| 070U | 17 1/2 | 11 3/4 | 15 7/8 | 16 1/8 |
| 100U | 21 | 14 | 19 3/8 | 19 7/8 |

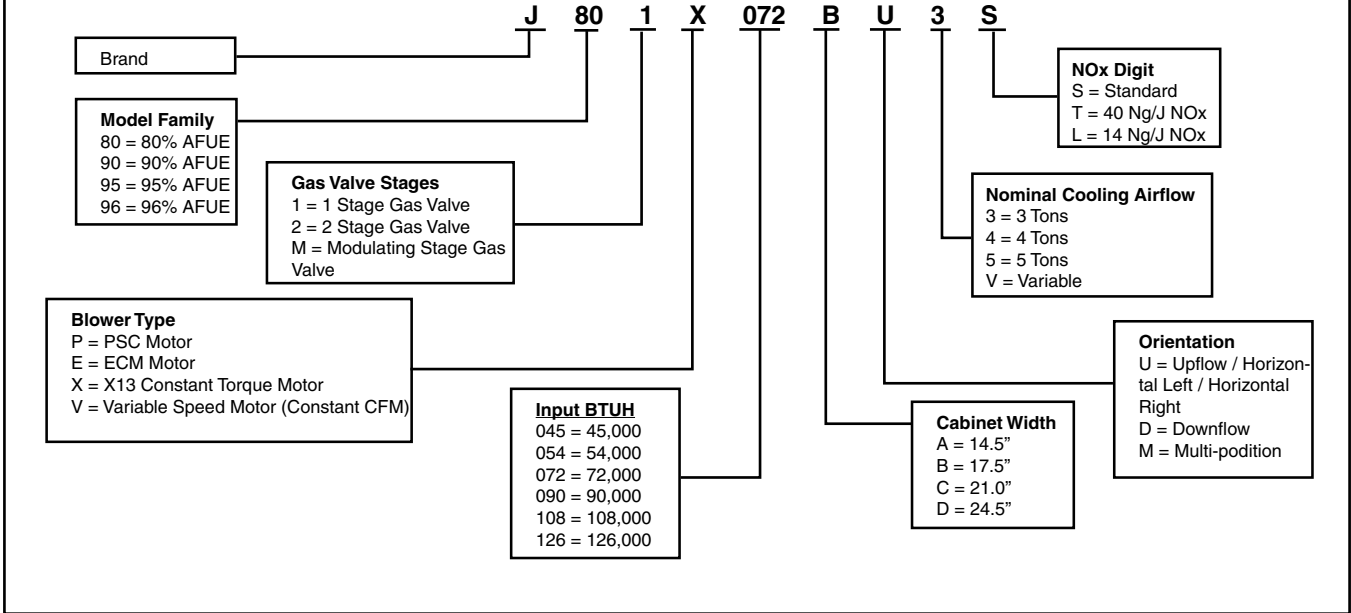
NOTE: Dimensions shown in Inches.



GAS FURNACE COMPONENTS



MODEL IDENTIFICATION CODE



SPECIFICATIONS

| J801X(*)L MODEL NUMBERS | -055U-T23A1 | -070U-T24B1 | -100U-T35C1 |
|--------------------------------|--------------------|--------------------|--------------------|
| Input - Btuh (a) | 55000 | 70000 | 100000 |
| Heating Capacity - BtuH | 44000 | 56000 | 80000 |
| AFUE | 80.0 | 80.0 | 80.0 |
| Motor H.P. - Speed - Type | 1/2 - 5 - ECM | 3/4 - 5 - ECM | 1 - 5 - ECM |
| Motor FLA | 6 | 8.4 | 11 |
| Rated Ext. SP - In. W.C. | 0.5 | 0.5 | 0.5 |
| Temperature Rise Range - F | 35-65 | 35-65 | 35-65 |
| Shipping Weights | 107 | 135 | 144 |
| NOx | <14ng/J | <14ng/J | <14ng/J |

AIRFLOW DATA

| HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F) | | | | | | | | | | | | |
|---|--------------------|-----------------------|-------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
| MODEL NAME/ HEATING INPUT | RETURN AIR VIA: | MOTOR SPEED TAP | EXTERNAL STATIC PRESSURE (IN. W.C.) | | | | | | | | | |
| | | | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | |
| | | | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE |
| 055AU3LAAA | Bottom | 5 - High * | | | | | | | | | | |
| | | 4 - Med-High | | | | | | | | | | |
| | | 3 - Med-Low ** | 880 | 46 | 845 | 48 | 810 | 50 | 770 | 53 | 735 | 55 |
| | | 2 - Alternate | 705 | 58 | 650 | 63 | 610 | | 570 | | 530 | |
| | | 1 - Low *** | 640 | 64 | 600 | | 555 | | 510 | | 470 | |
| | Side | 5 - High * | | | | | | | | | | |
| | | 4 - Med-High | | | | | | | | | | |
| | | 3 - Med-Low ** | 875 | 47 | 830 | 49 | 795 | 51 | 750 | 54 | 715 | 57 |
| | | 2 - Alternate | 685 | 59 | 650 | 63 | 595 | | 555 | | 515 | |
| | | 1 - Low *** | 640 | 64 | 585 | | 540 | | 500 | | 460 | |

| COOLING AIRFLOW (CFM) | | | | | | | | | | |
|------------------------------|--------------------|-----------------------|-------------------------------------|-------|-------|-------|-------|-------|-----|-----|
| MODEL NAME/ HEATING INPUT | RETURN AIR VIA: | MOTOR SPEED TAP | EXTERNAL STATIC PRESSURE (IN. W.C.) | | | | | | | |
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| | | | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| 055AU3LAAA | Bottom | 5 - High * | 1,180 | 1,140 | 1,110 | 1,080 | 1,045 | 1,015 | 985 | 955 |
| | | 4 - Med-High | 920 | 880 | 850 | 810 | 775 | 740 | 700 | 665 |
| | | 3 - Med-Low ** | 880 | 845 | 810 | 770 | 735 | 700 | 665 | 630 |
| | | 2 - Alternate | 705 | 650 | 610 | 570 | 530 | 480 | 440 | 400 |
| | | 1 - Low *** | 640 | 600 | 555 | 510 | 470 | 430 | 390 | 340 |
| | Side | 5 - High * | 1,160 | 1,125 | 1,095 | 1,065 | 1,040 | 1,010 | 975 | 945 |
| | | 4 - Med-High | 905 | 860 | 827 | 790 | 755 | 717 | 683 | 639 |
| | | 3 - Med-Low ** | 875 | 830 | 793 | 752 | 715 | 684 | 642 | 606 |
| | | 2 - Alternate | 685 | 650 | 595 | 555 | 515 | 471 | 424 | 376 |
| | | 1 - Low *** | 640 | 585 | 540 | 500 | 460 | 415 | | |

NOTES:

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
5. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
6. The "*" denotes the factory COOL setting, "***" denotes the factory HEAT setting, and "****" denotes factory FAN setting. If the Alternate speed is to be used, the speed tap must be adjusted at the blower motor plug.

AIRFLOW DATA

| HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F) | | | | | | | | | | | | |
|---|--------------------|-----------------------|-------------------------------------|------|-------|------|-------|------|-----|------|-----|------|
| MODEL NAME/ HEATING INPUT | RETURN AIR VIA: | MOTOR SPEED TAP | EXTERNAL STATIC PRESSURE (IN. W.C.) | | | | | | | | | |
| | | | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | |
| | | | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE |
| 070BU4LAAA | Bottom | 5 - High * | | | | | | | | | | |
| | | 4 - Med-High | | | | | | | | | | |
| | | 3 - Med-Low ** | | | | | | | | | | |
| | | 2 - Alternate | 1,130 | 46 | 1,070 | 48 | 1,010 | 51 | 960 | 54 | 890 | 58 |
| | | 1 - Low *** | 820 | 63 | 730 | | 630 | | 570 | | 540 | |
| | Side | 5 - High * | | | | | | | | | | |
| | | 4 - Med-High | | | | | | | | | | |
| | | 3 - Med-Low ** | | | | | | | | | | |
| | | 2 - Alternate | 1,090 | 48 | 1,020 | 51 | 970 | 53 | 920 | 56 | 860 | 60 |
| | | 1 - Low *** | 740 | | 680 | | 620 | | 560 | | 510 | |

| COOLING AIRFLOW (CFM) | | | | | | | | | | |
|------------------------------|--------------------|-----------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| MODEL NAME/ HEATING INPUT | RETURN AIR VIA: | MOTOR SPEED TAP | EXTERNAL STATIC PRESSURE (IN. W.C.) | | | | | | | |
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| | | | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| 070BU4LAAA | Bottom | 5 - High * | 1,790 | 1,740 | 1,690 | 1,640 | 1,590 | 1,540 | 1,490 | 1,440 |
| | | 4 - Med-High | 1,650 | 1,590 | 1,560 | 1,500 | 1,450 | 1,400 | 1,350 | 1,290 |
| | | 3 - Med-Low ** | 1,395 | 1,340 | 1,290 | 1,235 | 1,190 | 1,130 | 1,070 | 1,010 |
| | | 2 - Alternate | 1,130 | 1,070 | 1,010 | 960 | 890 | 820 | 770 | 720 |
| | | 1 - Low *** | 820 | 730 | 630 | 570 | 540 | 490 | 430 | 380 |
| | Side | 5 - High * | 1,740 | 1,700 | 1,660 | 1,610 | 1,550 | 1,510 | 1,460 | 1,400 |
| | | 4 - Med-High | 1,610 | 1,550 | 1,510 | 1,460 | 1,410 | 1,360 | 1,310 | 1,250 |
| | | 3 - Med-Low ** | 1,350 | 1,295 | 1,245 | 1,185 | 1,140 | 1,085 | 1,035 | 985 |
| | | 2 - Alternate | 1,090 | 1,020 | 970 | 920 | 860 | 800 | 750 | 700 |
| | | 1 - Low *** | 740 | 680 | 620 | 560 | 510 | 450 | 410 | 360 |

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| HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F) | | | | | | | | | | | | |
|---|--------------------------------|-----------------------|-------------------------------------|------|-------|------|-------|------|-------|------|-------|------|
| MODEL NAME/ HEATING INPUT | RETURN AIR VIA: | MOTOR SPEED TAP | EXTERNAL STATIC PRESSURE (IN. W.C.) | | | | | | | | | |
| | | | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | |
| | | | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE | CFM | RISE |
| 100CU5LAAA | Bottom | 5 - High * | | | | | | | | | | |
| | | 4 - Med-High | | | | | | | | | | |
| | | 3 - Med-Low ** | 880 | 46 | 845 | 48 | 810 | 50 | 770 | 53 | 735 | 55 |
| | | 2 - Alternate | 705 | 58 | 650 | 63 | 610 | | 570 | | 530 | |
| | | 1 - Low *** | 640 | 64 | 600 | | 555 | | 510 | | 470 | |
| | Side | 5 - High * | | | | | | | | | | |
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| | | 3 - Med-Low ** | 875 | 47 | 830 | 49 | 795 | 51 | 750 | 54 | 715 | 57 |
| | | 2 - Alternate | 685 | 59 | 650 | 63 | 595 | | 555 | | 515 | |
| | | 1 - Low *** | 640 | 64 | 585 | | 540 | | 500 | | 460 | |
| | Side + Bottom or 2 Sides | 5 - High * | | | | | | | | | | |
| | | 4 - Med-High | | | | | | | | | | |
| | | 3 - Med-Low ** | 1,600 | 46 | 1,530 | 48 | 1,460 | 51 | 1,400 | 53 | 1,340 | 55 |
| | | 2 - Alternate | 1,525 | 49 | 1,455 | 51 | 1,390 | 53 | 1,330 | 56 | 1,265 | 59 |
| | | 1 - Low *** | 1,370 | 54 | 1,300 | 57 | 1,230 | 60 | 1,150 | 64 | 1,090 | |

| COOLING AIRFLOW (CFM) | | | | | | | | | | |
|------------------------------|--------------------------------|-----------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| MODEL NAME/ HEATING INPUT | RETURN AIR VIA: | MOTOR SPEED TAP | EXTERNAL STATIC PRESSURE (IN. W.C.) | | | | | | | |
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| | | | CFM | CFM | CFM | CFM | CFM | CFM | CFM | CFM |
| 100CU5LAAA | Bottom | 5 - High * | 2,310 | 2,260 | 2,200 | 2,150 | 2,100 | 2,040 | 1,990 | 1,940 |
| | | 4 - Med-High | 1,870 | 1,820 | 1,760 | 1,720 | 1,670 | 1,610 | 1,560 | 1,490 |
| | | 3 - Med-Low ** | 1,580 | 1,530 | 1,480 | 1,420 | 1,360 | 1,290 | 1,230 | 1,155 |
| | | 2 - Alternate | 1,500 | 1,450 | 1,400 | 1,340 | 1,280 | 1,210 | 1,130 | 1,050 |
| | | 1 - Low *** | 1,390 | 1,320 | 1,260 | 1,200 | 1,130 | 1,060 | 970 | 890 |
| | Side | 5 - High * | 2,160 | 2,100 | 2,060 | 2,020 | 2,050 | 1,990 | 1,950 | 1,880 |
| | | 4 - Med-High | 1,810 | 1,750 | 1,710 | 1,660 | 1,620 | 1,560 | 1,510 | 1,440 |
| | | 3 - Med-Low ** | 1,540 | 1,490 | 1,440 | 1,380 | 1,330 | 1,270 | 1,210 | 1,150 |
| | | 2 - Alternate | 1,470 | 1,420 | 1,360 | 1,310 | 1,260 | 1,200 | 1,130 | 1,070 |
| | | 1 - Low *** | 1,310 | 1,250 | 1,190 | 1,150 | 1,080 | 1,000 | 950 | 880 |
| | Side + Bottom or 2 sides | 5 - High * | 2,280 | 2,220 | 2,170 | 2,120 | 2,090 | 2,080 | 2,020 | 1,950 |
| | | 4 - Med-High | 1,880 | 1,820 | 1,770 | 1,720 | 1,670 | 1,610 | 1,560 | 1,490 |
| | | 3 - Med-Low ** | 1,600 | 1,530 | 1,460 | 1,400 | 1,340 | 1,270 | 1,200 | 1,120 |
| | | 2 - Alternate | 1,525 | 1,455 | 1,390 | 1,330 | 1,265 | 1,190 | 1,120 | 1,045 |
| | | 1 - Low *** | 1,370 | 1,300 | 1,230 | 1,150 | 1,090 | 1,000 | 920 | 860 |

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GENERAL TERMS OF LIMITED WARRANTY

Trane Technologies will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Trane Technologies warranty department for a copy.

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 (08/2020)