



## FG6TA Series

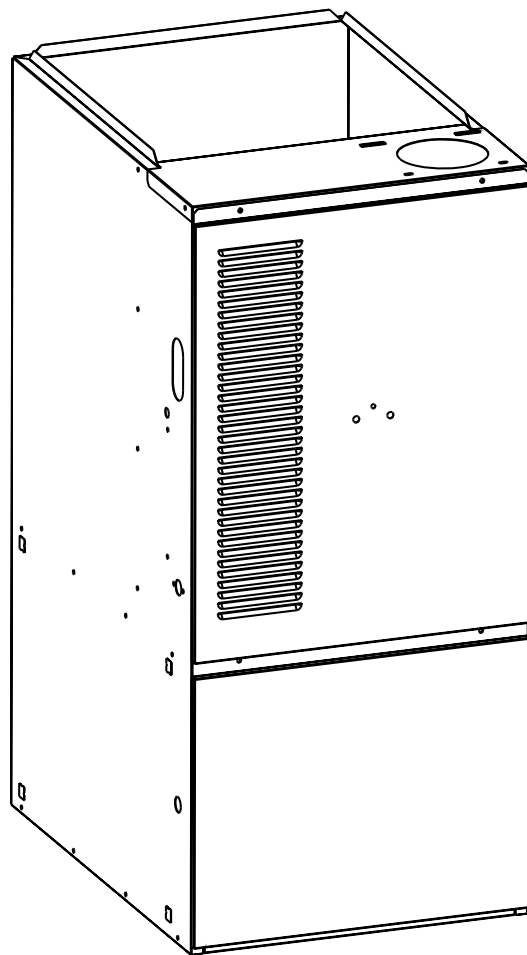
### High Efficiency / Non Direct Vent 2-Stage Gas Furnace with Variable Speed Blower

#### 80+ Upflow/Horizontal

The high efficiency 2-Stage gas furnace may be installed free standing in a utility room or basement, or enclosed in an alcove or closet. The extended flush jacket provides a pleasing “appliance appearance.” Design certified by the Canadian Standards Association International (CSA). The product is truly designed with the contractor and the consumer in mind.

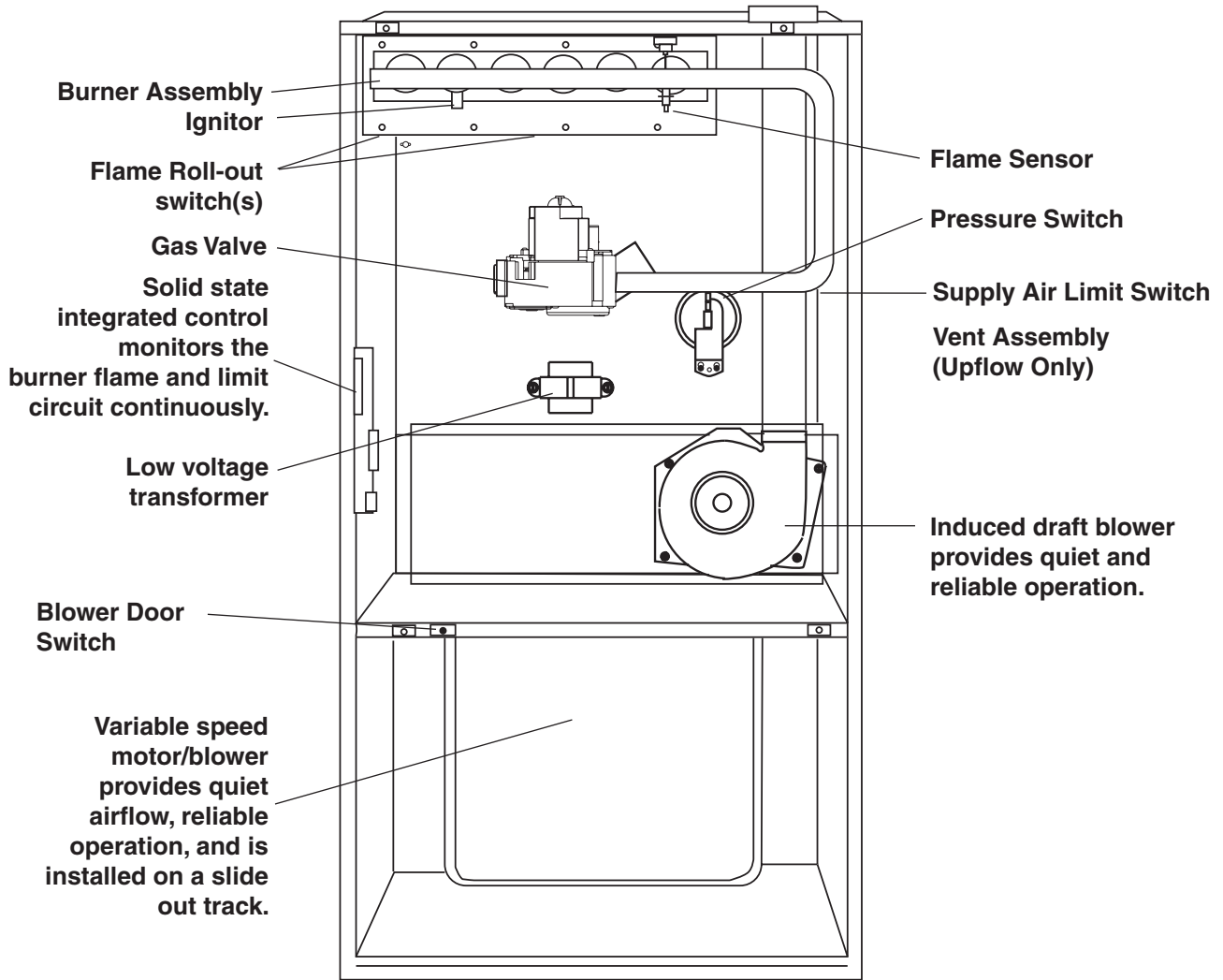
#### Features and Benefits

- **Best warranty in the business** –
  - A 20 year warranty on the heat exchanger
  - 8 Year Limited Parts and 5 Year Quality Pledge
- **100% fired and tested** – All units and each component (both mechanical and electrical) are tested on the manufacturing line.
- **Best packaging in the industry** – Unique design assures product will arrive to the homeowner dent free.
- **Clean, quiet, and efficient operation** – Due to the unique design of in-shot burners, location of inducer, and use of insulation. Operation at low fire uses less fuel than single capacity furnaces.
- **Fixed 30 second blower delay** at burner start-up assures a warm duct temperature at furnace start-up.
- **Fixed 30-second inducer post purge** increases life of heat exchanger.
- **Dependable, hot surface ignitor** – Innovative application of an appliance type ignitor with a 20-year history of reliability, assures no call-backs because of handling.
- **Color coded wire harness** – Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- **Reliable heat exchanger** – Aluminized heat exchanger assures long life.
- **Cooling cycle blower-off delay (TDR)** increases cooling performance when matched with a NORDYNE coil.
- **Approved for categories I and III venting systems** – May be common, dedicated, or horizontal vented for maximum flexibility in installation.
- **Variable speed blower** included to maximize air conditioner and heat pump efficiencies. On selected units, SEER ratings up to 14 and HSPF ratings up to 8.5 are ARI listed.
- **LP convertible** – Simple burner orifice and regulator spring change for ease of convertibility.
- **SmartLite™ Control Board** – Provides extended life to ignitors in furnaces using hot surface ignition technology. Programmed to learn the heat-up characteristics of the ignitor, then adapt the ignition time to the characteristics of the furnace so the ignitor is energized appropriately.
- **Diagnostic light flashes identify limit failure, pressure switch failure and improper ground and polarization** – for easy troubleshooting.
- **Incorporates integrated control board** with connections for electronic air cleaner, humidifier and twinning.
- **Two piece door design** enhances furnace appearance and uses screw fasteners for great fit and accessibility.
- **3 amp fuse** protection against low voltage shorts; protects transformer and control board.
- **Low voltage terminal board** for easy field wiring.



# FEATURES

## High Efficiency Upflow/Horizontal 80+ Two Stage Gas Furnace



# STANDARD EQUIPMENT

Non-Direct vent; draft inducer; pressure switch; redundant main gas control; hot-surface ignition; timed ON/OFF blower controls (TDR); 40VA transformer for air conditioner application; limit controls; direct drive motor; all models can be converted to use L.P. (propane) gas. Factory approved kits *only* must be used and are available as an optional accessory from your NORDYNE distributor.

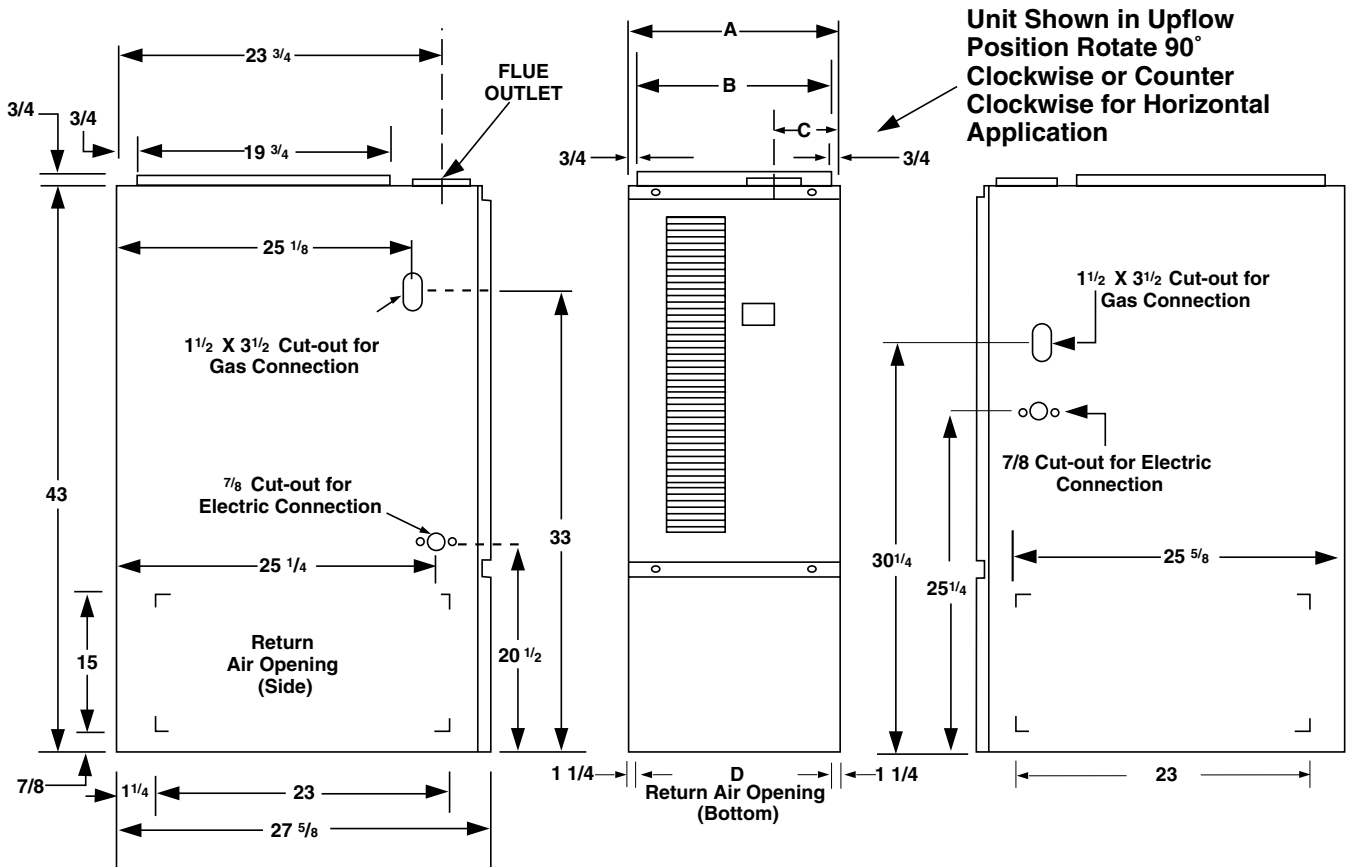
# SPECIFICATIONS

| MODEL NUMBER FG6TA-                    | 072C-VB        | 096C-VB        | 120C-VC        |
|--|----------------|----------------|----------------|
| High Fire Rated Input(Btu/h) (a)       | 72,000         | 96,000         | 120,000        |
| High Fire Heating Capacity(Btu/h)      | 58,000         | 77,000         | 96,000         |
| Low Fire Rated Input(Btu/h) (a)        | 50,000         | 67,000         | 84,000         |
| Low Fire Heating Capacity(Btu/h)       | 40,000         | 54,000         | 67,000         |
| <b>AFUE</b>                            | <b>80+</b>     | <b>80+</b>     | <b>80+</b>     |
| Maximum Heating Ext. St. Press.(in WC) | 1.0            | 1.0            | 1.0            |
| Blower Wheel D x W                     | 11 x 10        | 11 x 10        | 11 x 10        |
| Motor H.P. -Type                       | 3/4 - Variable | 3/4 - Variable | 3/4 - Variable |
| Motor FLA                              | 9.6            | 9.6            | 9.6            |
| High Fire Temperature Rise Range(F)    | 35 - 75        | 40 - 70        | 40 - 70        |
| Low Fire Temperature Rise Range(F)     | 40 - 70        | 45 - 75        | 35 - 65        |

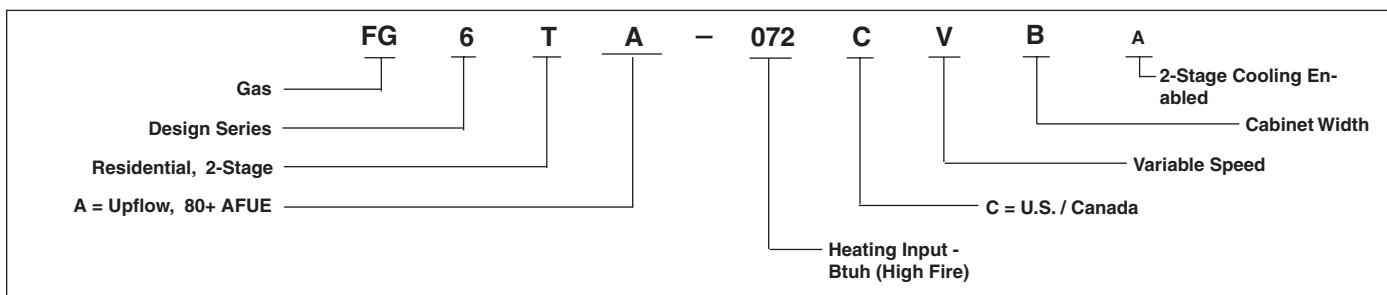
# DIMENSIONS

## Upflow/Horizontal Furnace

| UPFLOW/HORIZONTAL FURNACE MODELS<br>FURNACE DIMENSIONS AND<br>SHIPPING WEIGHTS |                 |                |            |        |       |        |             |                 |
|--|-----------------|----------------|------------|--------|-------|--------|-------------|-----------------|
| Model No   | High Fire Input | Low Fire Input | Dimensions |        |       |        | Flue Outlet | Shipping Weight |
|  |                 |                | A          | B      | C     | D      |             |                 |
|  | Btuh            | Btuh           | In.        | In.    | In.   | In.    | In.         | Lbs             |
| *TA 072C-VB  | 72,000          | 50,000         | 19 3/4     | 18 1/4 | 3 3/4 | 17 1/4 | 4           | 152             |
| *TA 096C-VB  | 96,000          | 67,000         | 19 3/4     | 18 1/4 | 3 3/4 | 17 1/4 | 4           | 174             |
| *TA 120C-VC  | 120,000         | 84,000         | 22 1/2     | 21     | 3 3/4 | 20     | 4           | 182             |



# MODEL IDENTIFICATION CODE



## VENTING

All models are approved for non direct (1 pipe) applications.

All models, with the exception of the reduced NOx models, are approved for vertical and horizontal venting applications. All models may be common vented with a gas water heater. Type B gas vent materials may be used when connected to a vertical vent system. The installation must be in accordance with the venting instructions supplied with the furnace.

See Vent Table below for horizontal venting requirements.

| Furnace Model Number *TA | Pipe Size | Reducer Needed | Maximum # Elbows | Max. Feet Vent Pipe |
|--------------------------|-----------|----------------|------------------|---------------------|
| 072( )VB                 | 3"        | 4" to 3"       | 4                | 35                  |
| 096( )VB                 | 3"        | 4" to 3"       | 4                | 35                  |
| 120( )VC                 | 3"        | 4" to 3"       | 4                | 35                  |

Horizontal Venting Requirements

These furnaces are approved to use with 3" single wall AL29-4C stainless steel vent pipe in horizontal applications. The pipe is available from the following manufacturers:

- Z-Flex Inc. - vent brand name (Z-VENT)
- Heat-fab Inc. - vent brand name (Saf-T Vent)
- Flex-L International - vent brand name (STAR-34 Vent)

When venting horizontally, this is a Category III furnace, the vent pressure is positive, and the venting system must be sealed in both horizontal and vertical runs.

## ACCESSORIES

| Kit   | Order Number                           |
|---|--|
| U.S. LP Conversion Kit (0 to 10,000 ft.)        | 904404                                 |
| Canadian LP Gas Conversion Kit (0 to 4,500 ft.) | 904405                                 |
| Fossil Fuel Kit                                 | 914762                                 |
| Side Return Filter Kit                          | 541036                                 |
| Bottom Return Filter (20/Box)                   | B Cabinet: 903089<br>C Cabinet: 903090 |
| Internal Side Return Filter Wire                | 903152                                 |

## CAPACITIES – Furnace Airflow Data

| CFM  | SWITCH NUMBER |      |   |   |   |   |   | Nominal A/C and HP Capacity |
|------|---------------|------|---|---|---|---|---|-----------------------------|
|      | LOW           | HIGH | 1 | 2 | 3 | 4 | 5 |                             |
| 500  | 720           | 0    | 0 | 0 | 1 |   |   |                             |
| 550  | 800           | 0    | 0 | 0 | 0 |   |   |                             |
| 610  | 880           | 0    | 0 | 1 | 0 |   |   |                             |
| 650  | 945           | 1    | 0 | 0 | 1 |   |   |                             |
| 720  | 1050          | 1    | 0 | 0 | 0 |   |   |                             |
| 800  | 1155          | 1    | 0 | 1 | 0 |   |   |                             |
| 900  | 1305          | 0    | 1 | 0 | 1 |   |   |                             |
| 1000 | 1450          | 0    | 1 | 0 | 0 |   |   |                             |
| 1060 | 1530          | 1    | 1 | 0 | 1 |   |   |                             |
| 1100 | 1595          | 0    | 1 | 1 | 0 |   |   |                             |
| 1170 | 1700          | 1    | 1 | 0 | 0 |   |   |                             |
| 1290 | 1870          | 1    | 1 | 1 | 0 |   |   |                             |

Note: 0 = Off 1 = On

| Nominal Airflow Rates (CFM) and Temperature Rises (Degree F) |   |                   |                 |                   |                 |                |                   |                |                 |           |      |           |      |           |
|--|---|-------------------|-----------------|-------------------|-----------------|----------------|-------------------|----------------|-----------------|-----------|------|-----------|------|-----------|
| Switches   |   | *TA 072-VB Models |                 | *TA 096-VB Models |                 |                | *TA 120-VC Models |                |                 |           |      |           |      |           |
|  |   | Low Fire Input    | High Fire Input | Low Fire Input    | High Fire Input | Low Fire Input | High Fire Input   | Low Fire Input | High Fire Input |           |      |           |      |           |
| 5  | 6 | 7                 | 50,000          | 72,000            | 67,000          | 96,000         | 84,000            | 120,000        |                 |           |      |           |      |           |
| 0  | 0 | #                 | 660             | <b>54</b>         | 1090            | <b>50</b>      | 660               | 73             | 1090            | 63        | 660  | 92        | 1090 | 84        |
| 1  | 0 | #                 | 750             | 48                | 1240            | 44             | 750               | <b>64</b>      | 1240            | <b>58</b> | 750  | 80        | 1240 | 74        |
| 0  | 1 | #                 | 1220            | 30                | 1680            | 33             | 1220              | 40             | 1680            | 41        | 1220 | <b>50</b> | 1680 | <b>55</b> |
| 1  | 1 | #                 | 1300            | 28                | 1880            | 29             | 1300              | 37             | 1880            | 36        | 1300 | 47        | 1880 | 49        |

# Switch not used - Can be 0 or 1.

Notes:

- Recommended temperature rises are highlighted in bold.
- Airflow rates of 1800 CFM or more require two return air connections. Data is for operation with filter(s).
- Temperature rises in the table are approximate. Actual temperature rises may vary.
- Temperature rises that are shaded grey are for reference only. These conditions are not recommended.
- For single stage cooling, reference the CFM listed in the high column.



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