

TECHNICAL SPECIFICATIONS

FG7MQ

iSEER, Smartlite® 

**Fully Modulating,
Variable Speed, Condensing
Upflow/Horizontal Gas Furnaces**

**Induced Draft - 97.0 AFUE
Input 60,000 - 120,000 Btuh**

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.



WARRANTY

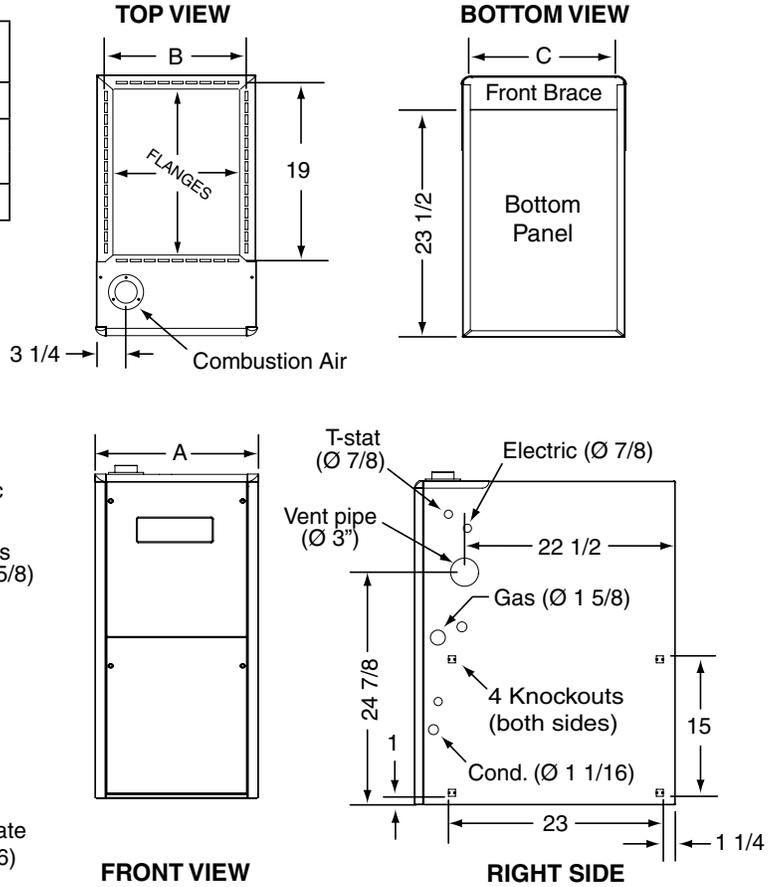
- 10 Year all-parts warranty.
- 10 Year Quality Pledge to replace the unit if the heat exchanger fails within the first 10 years of operation, to the original owner.
- Consumer product registration required for 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.
- When registered, this product is upgraded to a limited lifetime heat exchanger warranty.

FEATURES and BENEFITS

- **iSEER:** Energy efficient brushless DC (ECM) motor gives up to 1 SEER point efficiency gain in cooling.
- **Modulating heating operation Includes:**
 - Modulating gas valve from 100% to 50% input in 5% increments.
 - Time proportioning modulation down to 15%.
 - Variable speed inducer and blower.
- **100% fired and tested:** All units and each component are tested on the manufacturing line.
- **Best packaging in the industry:** Unique corner post design assures product will arrive to the homeowner dent free.
- **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. Utilizes proven Smartlite® technology.
- **Color coded wire harness:** Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- **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.
- **90 second fixed cooling cycle blower-off delay (TDR):** increases cooling performance when matched with a NORDYNE coil.
- **LP convertible:** Simple burner orifice change for ease of convertibility.
- **Diagnostic lights for easy troubleshooting without counting flashess:** 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.
- **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.
- **iQ Drive Thermostat:** Provides modulation down to 15% and is required for furnace operation.

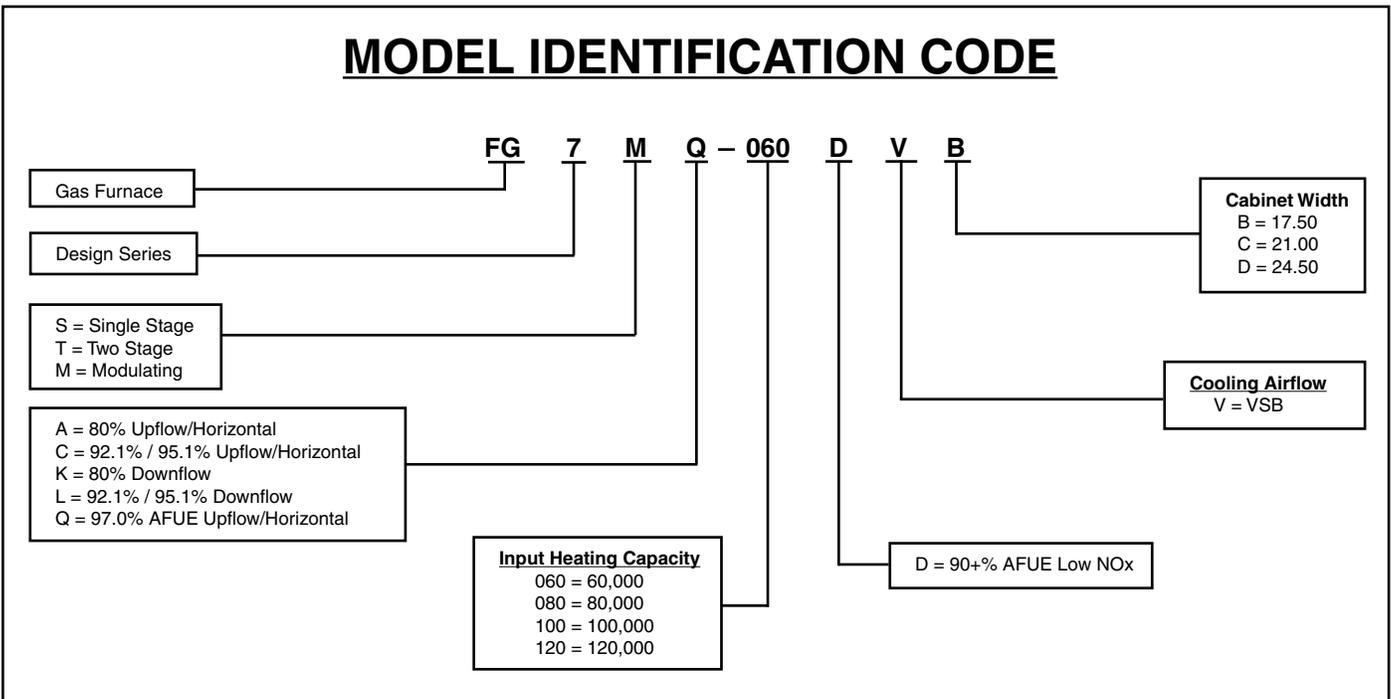
DIMENSIONS

| *MQ Model #'s | Dimension "A" | Dimension "B" | Dimension "C" |
|---------------|---------------|---------------|---------------|
| 060D-VB | 17 1/2 | 15 7/8 | 16 1/8 |
| 080D-VC | 21 | 19 3/8 | 19 5/8 |
| 100D-VC | | | |
| 120D-VD | 24 1/2 | 22 7/8 | 23 1/8 |

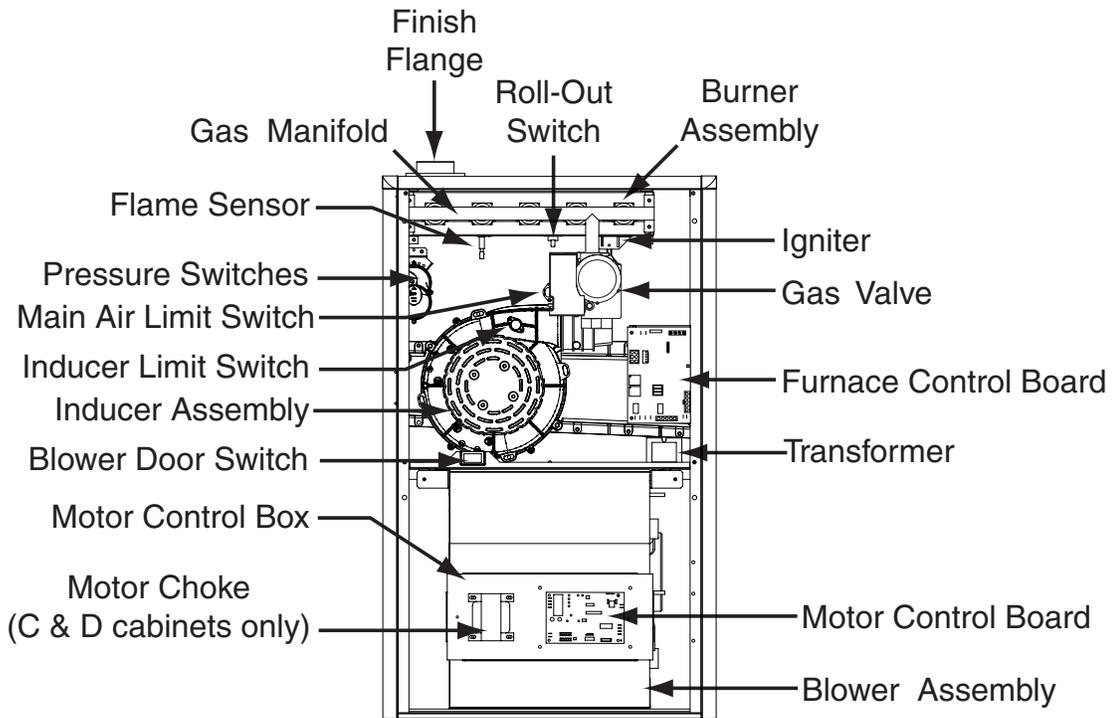


FG7MQ 97+ Modulating Upflow/Horizontal Series

MODEL IDENTIFICATION CODE



LOCATION OF FURNACE COMPONENTS



SPECIFICATIONS

| FG7MQ MODEL NUMBERS: | -060D-VB | -080D-VC | -100D-VC | -120D-VD |
|-----------------------------|-----------------|-----------------|------------------|------------------|
| Input - Btuh (a) | 60,000 / 30,000 | 80,000 / 40,000 | 100,000 / 50,000 | 120,000 / 60,000 |
| Heating Capacity - Btuh | 58,200 / 29,100 | 77,600 / 38,800 | 97,000 / 48,500 | 116,400 / 58,200 |
| AFUE | 97.0 | 97.2 | 97.4 | 97.0 |
| Blower D x W | 11 x 8 | 11 x 10 | 11 x 10 | 11 x 10 |
| Motor H.P. - Speed - Type | 1/2 - Variable | 3/4 - Variable | 3/4 - Variable | 1 - Variable |
| Motor FLA | 6.2 | 8.7 | 8.7 | 11.70 |
| Rated Ext. SP - In. W.C. | 0.5 | 0.5 | 0.5 | 0.5 |
| Temperature Rise Range - °F | 30-60 | 35-65 | 35-65 | 40-70 |
| Shipping Weights | 130lbs | 140lbs | 150lbs | 165lbs |

NOTE: All models are 115V, 60 Hz. Gas Connections are 1/2" N.P.T. AFUE = Annual Fuel Utilization Efficiency
 (a) Ratings to 2,000 ft. Over 2,000 ft. reduce 4% for each 1,000 ft. above sea level.

iQ Controller Kit

| Description | Sku |
|--------------------|------------|
| iQ Controller kit | 920621* |

* Revision Letter

AIRFLOW DATA

| Gas Input Rate (Btuh) | Target CFM for Selected Circulating Air Temperature Rises, F | | | | | | | | |
|-----------------------|--|---------------|------------|---------------|------------|---------------|------------|---------------|----------|
| | 45 | | 50 | | 55 | | 60 | | Constant |
| | Full Input | Minimum Input | Full Input | Minimum Input | Full Input | Minimum Input | Full Input | Minimum Input | |
| 60,000 | 1,110 | 635 | 1,000 | 560 | 940 | 515 | 850 | 470 | 950 |
| 80,000 | 1,480 | 850 | 1,345 | 740 | 1,255 | 685 | 1,140 | 625 | 1,300 |
| 100,000 | 1,850 | 1,050 | 1,680 | 925 | 1,565 | 855 | 1,460 | 780 | 1,760 |
| 120,000 | 2,225 | 1,270 | 2,020 | 1,115 | 1,890 | 1,025 | 1,730 | 940 | 2,100 |

NOTE: This table lists the High and Low target CFMs for each maximum input rate and temperature rise. If the target CFM is more than 1,600 CFM, it is recommended that two return air openings into the furnace be used.

ACCESSORIES

| FG7MQ KITS | |
|--|--------|
| Description | SKU |
| 2" Concentric vent kit | 904177 |
| 3" Concentric vent kit | 904176 |
| 2" Side wall vent kit | 904617 |
| 3" Side wall vent kit | 904347 |
| U.S. LP Conversion kit (0 to 10,000 ft.) for US and Canada | 904950 |
| 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 |
| Outdoor sensor for conventional heat pump | 920938 |



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first ten years of installation, in accordance with the terms of the warranty.

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

NORDYNE

COMPLETE COMFORT. GENUINE VALUE. 8000 Phoenix Parkway | O'Fallon, MO 63368-3827

Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (03/2011)

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