FRIGIDAIRE



Delivering Comfort

WITH THE **FG7TC-VS SERIES** OF GAS FURNACES

Table of Contents

2 CONTRACTOR SUPPORT

3 PRODUCT FEATURES & BENEFITS

4 TECHNICAL SPECIFICATIONS

- MODEL ID CODES
- VENTING

5 SPECIFICATIONS

6 LOCATION OF FURNACE COMPONENTS

7 DIMENSIONS

8 BLOWER PERFORMANCE

9 ACCESSORIES





THE FRIGIDAIRE®

TOTAL PACKAGE™

Designed with contractors in mind. Frigidaire HVAC equipment is designed with the contractor in mind. Each unit is equipped with features designed to make them easier to install and service, reducing time spent on each job while ensuring peak performance and safety.

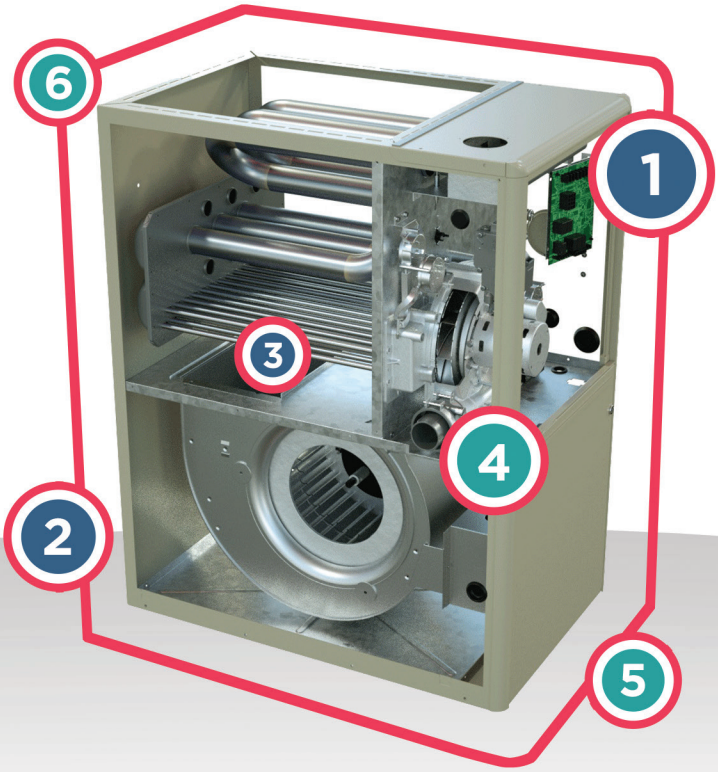
EASY TO Service

EASY TO Install

iQ Drive READY

ecoLogic®

SmartLite® CONTROL BOARD



FG7TC-VS Series

Two Stage, Variable Speed Gas Furnaces | Up to 95% AFUE | High Efficiency Upflow/Horizontal

The FG7TC-VS Series of furnaces offers exceptional performance.
This 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.

Easy to Service

① **REMOVABLE SIDE PANELS**
Side panels can be easily removed and replaced without removing the top grill.

② **COLOR CODED WIRE HARNESS**
Utilizes quick-connect fittings for ease of service and component replacement.

③ **GALVANIZED STEEL EXTERIOR**
Powder-coated paint and gloss finish eliminates sharp edges and reduces scratching.

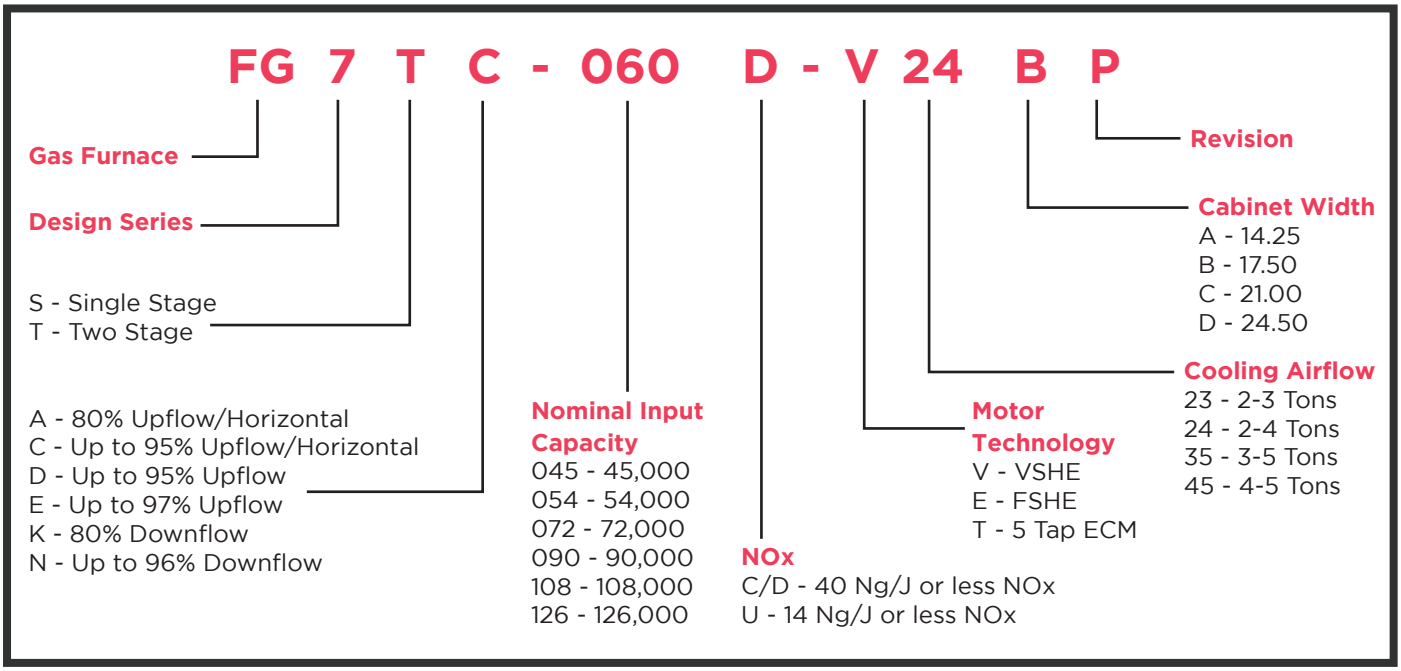
Easy to Install

④ **QR CODES**
QR codes on each unit link directly to the product's technical literature, eliminating the need to search for relevant documentation when working on the unit.

⑤ **HIGH STATIC BLOWERS**
All models equipped with high static blowers.

⑥ **LOW BOY HEIGHT**
Easy to apply in low ceiling applications, works well with taller high SEER2 coils, easier to handle and install.

MODEL ID
CODES



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.

FURNACE MODELS (BTU)	FURNACE INSTALLATION	SINGLE VENT PIPE LENGTH (ft.) with 1 long radius elbow*		DUAL VENT PIPE LENGTH (ft.) with 1 long radius elbow on each pipe*	
		OUTLET 2" Diameter	OUTLET 3" Diameter	INLET/OUTLET 2" Diameter	INLET/OUTLET 3" Diameter
60,000	Upflow	90	90	90	90
	Horizontal	50	90	50	90
80,000	Upflow	40	90	40	90
	Horizontal	30	90	30	90
100,000	Upflow	30	90	30	90
	Horizontal	30	90	30	90
120,000	Upflow	N/A	90	N/A	90
	Horizontal	N/A	90	N/A	90

***NOTES:**

1. Subtract 2.5 ft. for each additional 2 inch long radius elbow, 5 ft. for each additional 2 inch short radius elbow, 3.5 ft. for each additional 3 inch long radius elbow, and 7 ft. for each additional 3 inch short radius elbow. Subtract 5 ft for each 2" tee and 8 ft for each 3" tee. Two 45 degree elbows are equivalent to one 90 degree elbow.
2. This table applies for elevations from sea level to 2,000 ft. For higher elevations, decrease pipe lengths by 8% per 1,000 ft of altitude.

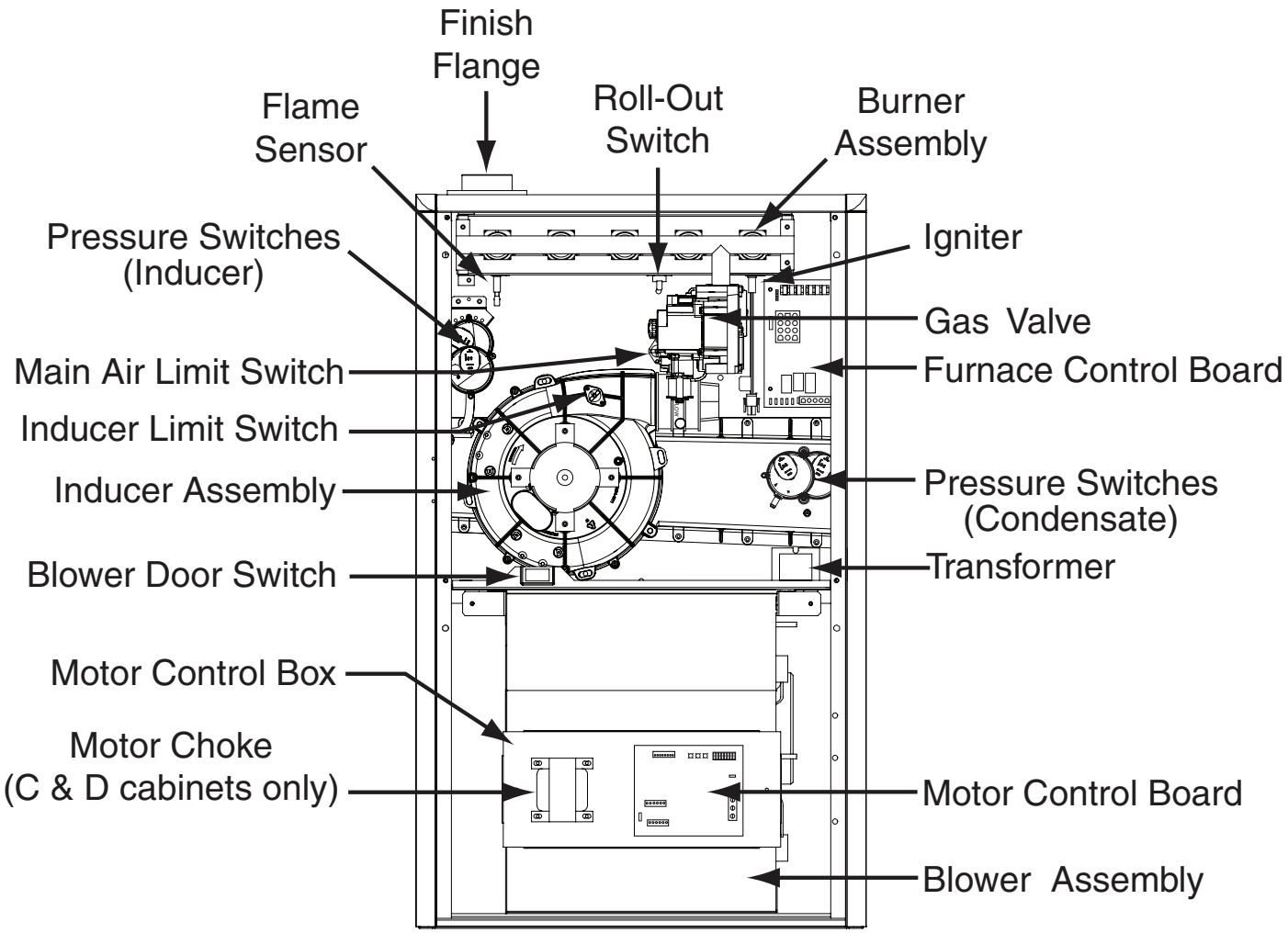
SPECIFICATIONS

FG7TC MODEL NUMBERS	-060D-V24B1	-080D-V35C1	-100D-V35C1
Input - Btuh (a)	60000 / 39000	80000 / 52000	100000 / 65000
Heating Capacity - BtuH	57000 / 37000	76000 / 49000	95000 / 62000
AFUE	95.0	95.0	95.0
Motor H.P. - Speed - Type	1/2 - Variable	3/4 - Variable	3/4 - Variable
Motor FLA	6.9	9.3	9.3
Rated Ext. SP - In. W.C.	0.50	0.50	0.50
Temperature Rise Range - °F	30-60	35-65	35-65
Shipping Weights (lbs)	120	140	145

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

LOCATION OF FURNACE COMPONENTS

UPFLOW / HORIZONTAL FURNACE (*TC SERIES)

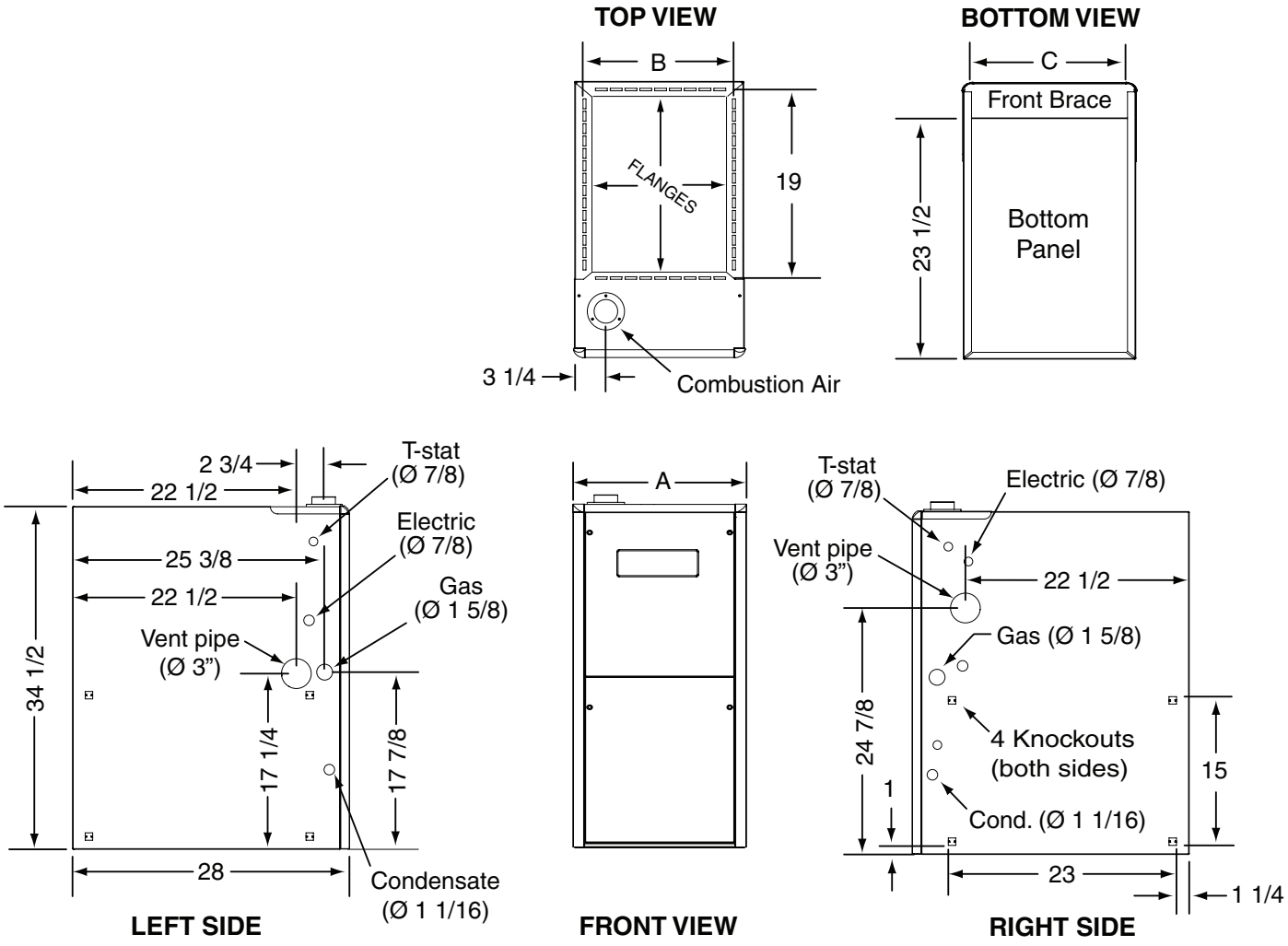


FG7TC 95% AFUE High Efficiency Upflow/Horizontal Series

DIMENSIONS

Model FG7TC	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

NOTE: Dimensions shown in inches

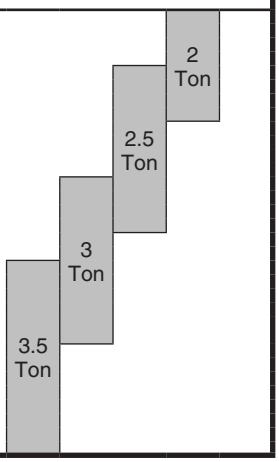


BLOWER PERFORMANCE

FG7TC, VSHE (B Cabinet)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (° F)						
MODEL NUMBER/ HEATING INPUT	MOTOR SWITCH SETTINGS (0=OFF, 1=ON)				CFM	RISE
	1	2	3	4		
FG7TC-060D-V24B 60,000 BTU/hr	1	0	0	0	1,000	53
	1	0	0	1	1,100	48
	1	0	1	0	1,200	44
	1	0	1	1	1,300	41
	1	1	0	0	1,400	38
	1	1	0	1		
	1	1	1	0		
	1	1	1	1		

COOLING AIRFLOW (CFM)							
MOTOR SWITCH SETTINGS (0=OFF, 1=ON)					CFM		NOMINAL AC / HP CAPACITY
1	5	6	7	8	LOW	HIGH	
1	0	0	0	0	470	700	
1	0	0	0	1	510	760	
1	0	0	1	0	550	820	
1	0	0	1	1	590	880	
1	0	1	0	0	630	940	
1	0	1	0	1	670	1,000	
1	0	1	1	0	710	1,060	
1	0	1	1	1	750	1,120	
1	1	0	0	0	790	1,180	
1	1	0	0	1	830	1,240	
1	1	0	1	0	870	1,300	
1	1	0	1	1	910	1,360	
1	1	1	0	0	950	1,420	
1	1	1	0	1	990	1,480	
1	1	1	1	0	1,030	1,540	
1	1	1	1	1	1,070	1,600	

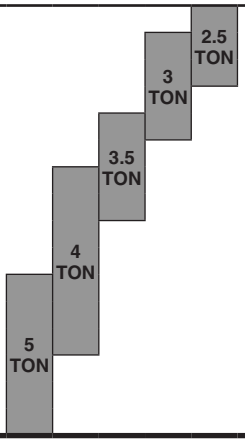


NOTES:
1. Motor switch settings for heating speeds use HEAT switches 1, 2, 3, & 4 and for cooling speeds use COOL switches 5, 6, 7, & 8.
2. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
3. Data is shown without filter.
4. Temperature rises in the table are approximate. Actual temperature rises may vary.
5. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
6. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
7. When in low stage heat, the airflow is approximately 70% of the tables high value (2-stage furnaces only).

FG7TC, VSHE (C Cabinet)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)								
MODEL NAME/ HEATING INPUT	MOTOR SWITCH SETTINGS (0=OFF, 1=ON)				080D-V35C 80,000 BTU/hr		100D-V35C 100,000 BTU/hr	
	1	2	3	4	CFM	RISE	CFM	RISE
FG7TC-	#	0	0	0				
	#	0	0	1	1,115	63		
	#	0	1	0	1,230	57		
	#	0	1	1	1,345	52	1,345	65
	#	1	0	0	1,460	48	1,460	60
	#	1	0	1	1,575	44	1,575	56
	#	1	1	0	1,690	41	1,690	52
	#	1	1	1				

COOLING AIRFLOW (CFM)							
MOTOR SWITCH SETTINGS (0=OFF, 1=ON)					CFM		NOMINAL AC / HP CAPACITY
1	5	6	7	8	LOW	HIGH	
#	0	0	0	0	685	1,025	
#	0	0	0	1	730	1,090	
#	0	0	1	0	775	1,155	
#	0	0	1	1	815	1,220	
#	0	1	0	0	860	1,285	
#	0	1	0	1	905	1,350	
#	0	1	1	0	950	1,415	
#	0	1	1	1	990	1,480	
#	1	0	0	0	1,035	1,545	
#	1	0	0	1	1,080	1,610	
#	1	0	1	0	1,120	1,675	
#	1	0	1	1	1,165	1,740	
#	1	1	0	0	1,210	1,805	
#	1	1	0	1	1,255	1,870	
#	1	1	1	0	1,295	1,935	
#	1	1	1	1	1,340	2,000	



NOTES:
1. Motor switch settings for heating speeds use HEAT switches 1, 2, 3, & 4 and for cooling speeds use COOL switches 5, 6, 7, & 8.
2. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
3. Data is shown without filter.
4. Temperature rises in the table are approximate. Actual temperature rises may vary.
5. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
6. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
7. When in low stage heat, the airflow is approximately 70% of the tables high value (2-stage furnaces only).

ACCESSORIES

FG7TC 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, "A" Cabinet	903088
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

GENERAL TERMS OF LIMITED WARRANTY

Nordyne, LLC 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 Nordyne, LLC warranty department for a copy.



DISCOVER Comfort

GET STARTED AT **FRIGIDAIREHVAC.COM**

GAS-FIRED c UL us LISTED

NORTH AMERICAN TECHNICIAN EXCELLENCE · NATE · CERTIFYING THE FINEST IN HVACR

AHRI CERTIFIED www.ahridirectory.org Residential Furnaces DOE 10 CFR Part 430

Member NAHB

HRAI MEMBER COMPANY

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 (06/24)

FRIGIDAIRE is a registered trademark of Electrolux Home Products Inc. and used under a license from Electrolux Home Products, Inc.

© Nordyne, LLC 2024. All Rights Reserved.

984F-0624

FRIGIDAIRE®

TOTAL PACKAGE