



GE APPLIANCES

Product Specifications

NF80X*V**R**

80% Two Stage Variable Speed
Ultra Low NOx Gas Furnace



Contact GE Appliances at:

Homeowner: **GEAppliances.com**
HVAC Pro: **GEAppliancesairandwater.com**
or
866.814.3633

Split System USAC and USHP matches:
AHRIDirectory.org

**READ CAREFULLY.
KEEP THESE INSTRUCTIONS.**

NF80X***V**R

PRODUCT SPECIFICATIONS

CONFIGURATIONS

- Upflow / Horizontal

HEAT EXCHANGER DESIGN

- Aluminized steel tubular heat exchanger

CABINET DESIGN

- Compact 33" height
- Standardized widths for easy coil fit

AIR DELIVERY SYSTEM

- ECM™ Variable speed blower motor
- Easily removable slide out blower design
-

CONTROLS

- Integrated Furnace Control with Refrigerant Leak Detection capability (Sensors ordered separately).
- Works with a conventional 24V T-Stat
- Self diagnostics saves last 5 fault codes regardless of power interruption

DESCRIPTION

The NF80X***V**R model is an 80% AFUE gas furnace used for upflow or horizontal applications only, manufactured with aluminized steel tubular heat exchangers. NF80X***V**R units are available in heating inputs of 60,000 to 100,000 Btuh and cooling applications up to 5 tons. Units are approved for installations up to 7500 feet above sea level and factory equipped for use with natural gas only. The NF80X***V**R meets the California Ultra Low Nitrogen Oxides (NOx) Standards (14ng/J) and California Seasonal Efficiency requirements. All units use a redundant gas valve to assure safety shut-off as required by C.S.A. All specifications are subject to change without notice.

INSTALLATION FEATURES

- Left and right electrical connections, except where noted
- Removable floor base for bottom return air
- Zero step horizontal conversion
- Compliant with 14NG/J emission requirements

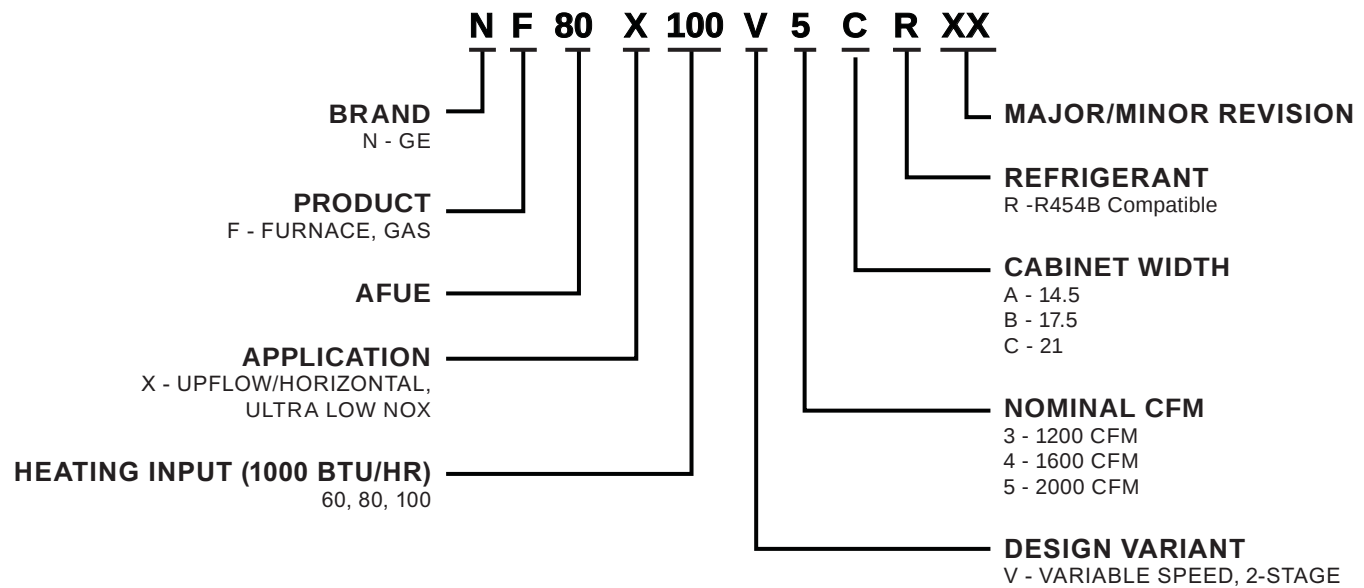
WARRANTY

See limited warranty document for details.

NOTE: Not For Sale in Canada



MODEL NUMBER GUIDE



PHYSICAL AND ELECTRICAL DATA

Model	Input (Btuh)	Output (Btuh)	AFUE (ICS)	Nominal Cooling Capacity	Gas Inlet (in.)	Volts/ Hz/ Phase	Max. Time Delay Breaker or Fuse	Nominal Full Load Amps	Trans (VA)	Approx Shipping Weight (lbs)
NF80X060V3AR	60,000	47,000	80%	3 Ton	1/2	120-60-1	15	7.7	40	121
NF80X080V4BR	80,000	63,000	80%	4 Ton	1/2	120-60-1	20	12.8	40	142
NF80X100V5CR	100,000	79,000	80%	5 Ton	1/2	120-60-1	20	12.8	40	158

BLOWER PERFORMANCE DATA**NF80X060V3AR BLOWER PERFORMANCE (less filter)****BOTTOM RETURN AIR****0 through 0.8 in. w.g. (Heating) and 0 through 1.0 in. w.g. (Cooling) External Static Pressure Range**

HEATING								
¹ Heating Speed DIP Switch Settings	First Stage Heating Speed - cfm				Second Stage Heating Speed - cfm			
	+24%				1115			
	+18%				1060			
	+12%				995			
	+6%				935			
	Factory Default				875			
	-6%				815			
	-12%				755			
	-18%				700			
	COOLING							
¹ Cooling Speed DIP Switch Settings	First Stage Cooling Speed - cfm				Second Stage Cooling Speed - cfm			
	Low	Medium-Low	Medium-High	² High	Low	Medium-Low	Medium-High	² High
+	680	740	785	915	935	1025	1150	1295
Factory Default	625	660	720	815	835	930	1040	1185
-	565	580	650	740	745	825	925	1035

NF80X080V4BR BLOWER PERFORMANCE (less filter)**BOTTOM RETURN AIR****0 through 0.8 in. w.g. (Heating) and 0 through 1.0 in. w.g. (Cooling) External Static Pressure Range**

HEATING								
¹ Heating Speed DIP Switch Settings	First Stage Heating Speed - cfm				Second Stage Heating Speed - cfm			
	+24%				1295			
	+18%				1230			
	+12%				1155			
	+6%				1095			
	Factory Default				1015			
	-6%				950			
	-12%				885			
	-18%				810			
					910			
COOLING								
¹ Cooling Speed DIP Switch Settings	First Stage Cooling Speed - cfm				Second Stage Cooling Speed - cfm			
	Low	Medium-Low	Medium-High	² High	Low	Medium-Low	Medium-High	² High
+	635	880	1020	1190	990	1270	1490	1710
Factory Default	565	775	915	1070	885	1135	1345	1540
-	545	670	820	955	775	1015	1205	1390

¹ Cooling and heating speeds are based on a combination of DIP switch settings on the furnace control. Refer to Installation Instructions for specific DIP Switch Settings.² Factory default setting.**NOTES** - The effect of static pressure is included in air volumes shown.

- First stage HEAT is approximately 91% of the same second stage HEAT.
- First stage COOL (two-stage air conditioning units only) is approximately 70% of the same second stage COOL speed position.
- Continuous Fan Only speed is selectable at 28%, 38%, 70% and 100% of the selected second stage cooling speed - minimum 280 for NF80X060V3AR and 380 cfm for NF80X080V4BR.
- Zoning System Applications - Minimum blower speed is 250 cfm for NF80X060V3AR and 380 cfm NF80X080V4BR.

BLOWER PERFORMANCE DATA

NF80X100V5CR BLOWER PERFORMANCE (less filter)

BOTTOM RETURN AIR, RETURN AIR FROM BOTH SIDES OR RETURN AIR FROM BOTTOM AND ONE SIDE

0 through 0.8 in. w.g. (Heating) and 0 through 1.0 in. w.g. (Cooling) External Static Pressure Range

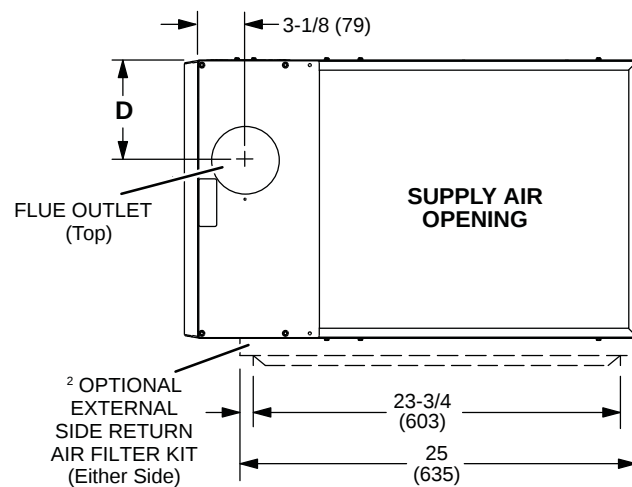
HEATING												
¹ Heating Speed DIP Switch Settings	First Stage Heating Speed - cfm				Second Stage Heating Speed - cfm							
	+24%				1600				1770			
	+18%				1510				1670			
	+12%				1435				1585			
	+6%				1355				1505			
	Factory Default				1275				1415			
	-6%				1185				1335			
	-12%				1120				1245			
	-18%				1035				1155			
	COOLING											
¹ Cooling Speed DIP Switch Settings	First Stage Cooling Speed - cfm				Second Stage Cooling Speed - cfm							
	Low	Medium-Low	Medium-High	² High	Low	Medium-Low	Medium-High	² High				
+	1095	1160	1285	1485	1570	1645	1830	2125				
Factory Default	1005	1075	1175	1355	1425	1485	1660	1910				
-	925	960	1070	1215	1275	1330	1490	1720				

¹ Cooling and heating speeds are based on a combination of DIP switch settings on the furnace control. Refer to Installation Instructions for specific DIP Switch Settings.² Factory default setting.**NOTES** - The effect of static pressure is included in air volumes shown.

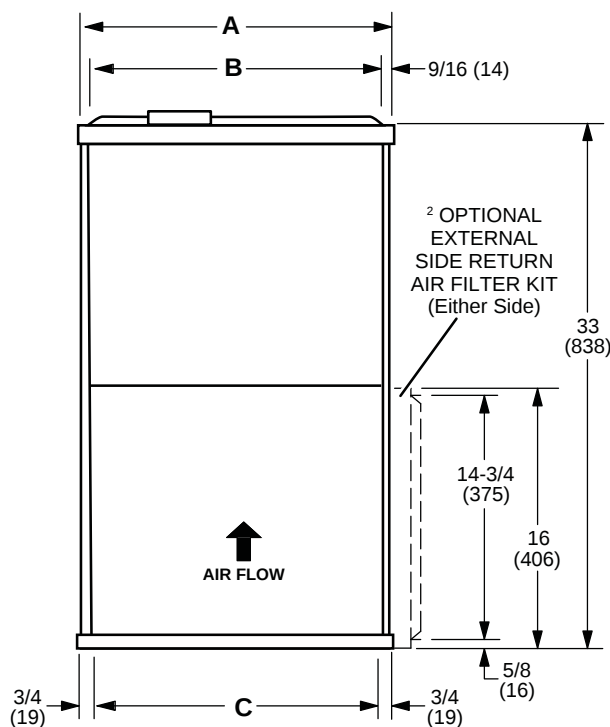
- First stage HEAT is approximately 91% of the same second stage HEAT.
- First stage COOL (two-stage air conditioning units only) is approximately 70% of the same second stage COOL speed position.
- Continuous Fan Only speed is selectable at 28%, 38%, 70% and 100% of the selected second stage cooling speed - minimum 450 cfm.
- Zoning System Applications - Minimum blower speed is 450 cfm.

DIMENSIONS

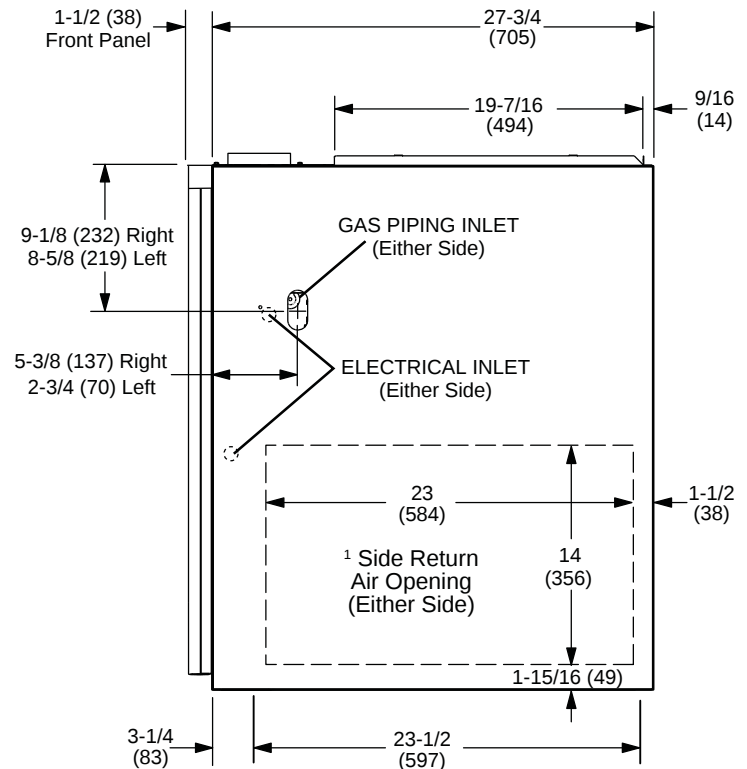
Model	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
NF80X060V3AR	14-1/2	368	13-3/8	340	13	330	4-3/4	121
NF80X080V4BR	17-1/2	446	16-3/8	416	16	406	6-1/4	159
NF80X100V5CR	21	533	19-7/8	504	19-1/2	495	8	203



TOP VIEW



FRONT VIEW



SIDE VIEW

ACCESSORIES

Catalog Number	Description
Return Air Base	
68W61	Return Air Base 14.5 Inch, A Width
68W62	Return Air Base 17.5 Inch, B Width
68W63	Return Air Base 21.0 Inch, C Width
High Altitude Pressure Switches (4501 - 7500 ft.)	
20K91	-060
Low Profile Combustion Air Intake Assembly	
25B23	Air Intake Kit for Narrow Closets
TRANSFORMER (75VA)	
Recommended when furnace is used with zoning or defrost thermostats and other 24V accessories requiring a higher VA rating	27J32
Circuit breaker (furnished) is wired in series	
Replaces the standard 40VA transformer	

For vent length and clearances to combustibles, please reference installation instructions.

REFRIGERANT DETECTION SYSTEM (RDS) COMPONENTS

Description	Order No.
Refrigerant Detection System (RDS) Coil Sensor Kit	27V53



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