



GE APPLIANCES

Product Specifications

NF97(U/D)*V**R**
97% 2-STAGE VARIABLE
SPEED 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.**

NF97(U/D)***V**R

PRODUCT SPECIFICATIONS

CONFIGURATIONS

- Upflow / Horizontal
- Downflow

HEAT EXCHANGER DESIGN

- Aluminized steel primary heat exchanger with crimped nonwelded construction
- AL29-4C Stainless steel secondary heat exchanger

BURNERS

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

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).
- Two stage gas valve
- Self diagnostics saves last 5 fault codes regardless of power interruption

VENTING

- Vent materials for Canadian applications must comply with ULC 5636
- Certified for direct vent (2-pipe) and in-direct (1-pipe) applications.

INSTALLATION FEATURES

- Left and right utility connections
- Removable floor base for bottom return air
- All models comply with California's Low NOx requirements (40 Ng/J)
- Zero step horizontal conversion

WARRANTY

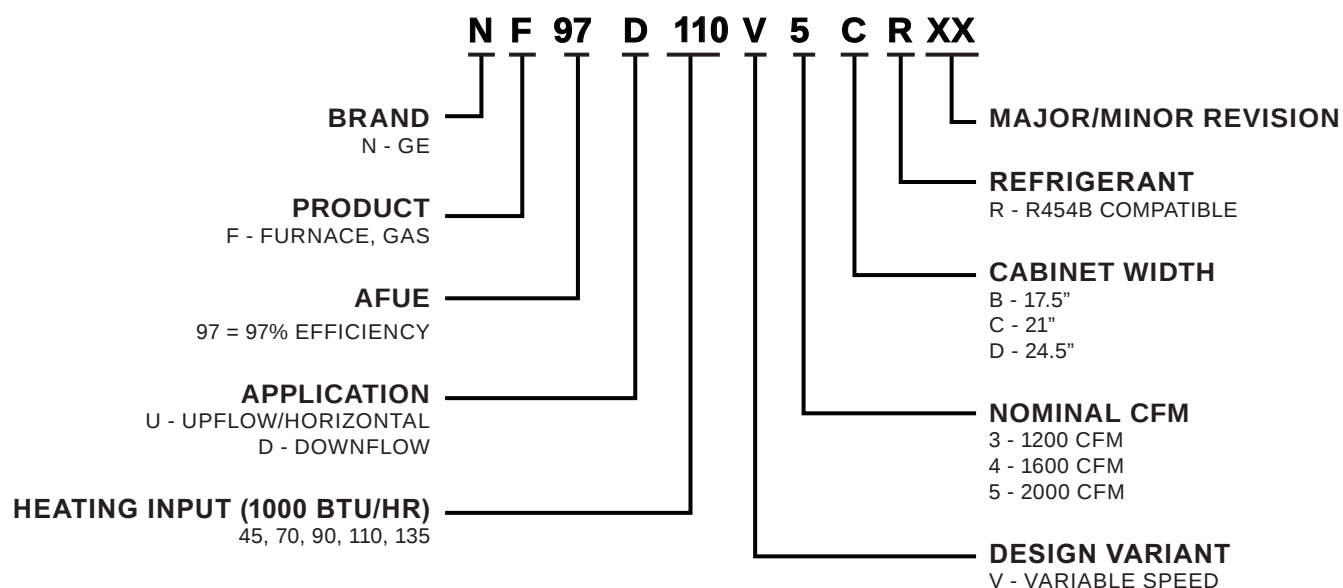
See warranty document for details.

California Only

If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J). If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J).



MODEL NUMBER GUIDE



PHYSICAL AND ELECTRICAL DATA

	MODEL	1ST STAGE		2ND STAGE		AFUE (ICUS)	NOM. COOLING CAPACITY (TONS)	GAS INLET (IN.)	VOLTS/ HZ/ PHASE	MIN. TIME DELAY BREAKER OR FUSE	NOMINAL F.L.A.	TRANS. (V.A.)	APPROX. WEIGHT (LBS.)
		INPUT (BTUH)	OUTPUT* (BTUH)	INPUT (BTUH)	OUTPUT* (BTUH)								
UPFLOW/HORIZONTAL	NF97U045V3BR	29,000	28,000	44,000	43,000	97.0	3	1/2	120-60-1	15	7.7	40	124
	NF97U070V3BR	43,000	42,000	66,000	64,000	97.0	3	1/2	120-60-1	15	7.7	40	133
	NF97U090V3CR	57,000	56,000	88,000	85,000	97.0	3	1/2	120-60-1	15	7.7	40	147
	NF97U090V5CR	57,000	56,000	88,000	86,000	97.0	5	1/2	120-60-1	20	12.8	40	157
	NF97U110V5CR	72,000	70,000	110,000	107,000	97.0	5	1/2	120-60-1	15	12.8	40	164
	NF97U135V5DR	86,000	84,000	132,000	127,000	97.0	5	1/2	120-60-1	20	12.8	40	179
DOWNFLOW	NF97D070V4BR	43,000	42,000	66,000	64,000	97.0	4	1/2	120-60-1	15	10.1	40	140
	NF97D090V5CR	57,000	56,000	88,000	86,000	97.0	5	1/2	120-60-1	20	12.8	40	159
	NF97D110V5CR	72,000	70,000	110,000	108,000	97.0	5	1/2	120-60-1	20	12.8	40	167

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

* Outputs shown are High Fire, 100% rate, Low Fire is 67% of shown output.

FILTER REQUIREMENT DATA

Airflow Descriptor	Disposable Filters	Cleanable Filters
	Minimum Area (sq. in.)	Minimum Area (sq.in.)
3	576	288
4	768	384
5	960	480

1. The Airflow Descriptor is the first digit following the "V" in the model number. For example, 3 is the Airflow Descriptor in the NF97U070V3BR model. 3 means 1200 CFM of air, 4 means 1600 cfm, etc.

2. Areas shown for permanent filters are based on filters rated at 600 feet per minute face velocity.

BLOWER PERFORMANCE DATA - UPFLOW / HORIZONTAL

NF97U045V3BR Motor Size: 1/2 HP Blwr Size: 10 X 9		LOW FIRE HEATING - SCFM [TEMP RISE: 20 - 50 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 35 - 65 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		595	638	682	725	769	812	856	899	738	792	846	900	954	1008	1062	1116
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	605		743		853		963		880		1045		1210		1375	
	Default	550		675		775		875		800		950		1100		1250	
	-10%	495		608		698		788		720		855		990		1125	

NF97U070V3BR Motor Size: 1/2 HP Blwr Size: 10 x 9		LOW FIRE HEATING - SCFM [TEMP RISE: 25 - 55 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 50 - 80 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		718	770	823	875	928	980	1033	1085	800	858	917	975	1034	1092	1151	1209
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	605		743		853		963		880		1045		1210		1375	
	Default	550		675		775		875		800		950		1100		1250	
	-10%	495		608		698		788		720		855		990		1125	

NF97U090V3CR Motor Size: 1/2 HP Blwr Size: 10 x 9		LOW FIRE HEATING - SCFM [TEMP RISE: 30 - 60 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 45 - 75 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		800	858	917	975	1034	1092	1151	1209	861	924	987	1050	1113	1176	1239	1302
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	605		743		853		963		880		1045		1210		1375	
	Default	550		675		775		875		800		950		1100		1250	
	-10%	495		608		698		788		720		855		990		1125	

NF97U090V5CR Motor Size: 1 HP Blwr Size: 11 x 11		LOW FIRE HEATING - SCFM [TEMP RISE: 30 - 60 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 40 - 70 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		943	1012	1081	1150	1219	1288	1357	1426	1271	1364	1457	1550	1643	1736	1829	1922
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	935		1073		1238		1403		1320		1540		1760		2008	
	Default	850		975		1125		1275		1200		1400		1600		1825	
	-10%	765		878		1013		1148		1080		1260		1440		1643	

NF97U110V5CR Motor Size: 3/4 HP Blwr Size: 11 x 11		LOW FIRE HEATING - SCFM [TEMP RISE: 35 - 65 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 45 - 75 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		1005	1078	1152	1225	1299	1372	1446	1519	1333	1430	1528	1625	1723	1820	1918	2015
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	935		1073		1238		1403		1320		1540		1760		2008	
	Default	850		975		1125		1275		1200		1400		1600		1825	
	-10%	765		878		1013		1148		1080		1260		1440		1643	

* @ .10" - .80" w.c.

BLOWER PERFORMANCE DATA - UPFLOW / HORIZONTAL

NF97U135V5DR Motor Size: 1 HP Blwr Size: 11 x 11		LOW FIRE HEATING - SCFM [TEMP RISE: 40 - 70 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 55 - 85 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		1128	1210	1293	1375	1458	1540	1623	1705	1374	1474	1575	1675	1776	1876	1977	2077
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	935		1073		1238		1403		1320		1540		1760		2008	
	Default	850		975		1125		1275		1200		1400		1600		1825	
	-10%	765		878		1013		1148		1080		1260		1440		1643	

BLOWER PERFORMANCE DATA - DOWNFLOW

NF97D070V4BR Motor Size: 3/4 HP Blwr Size: 11 x 10		LOW FIRE HEATING - SCFM [TEMP RISE: 25 - 55 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 35 - 65 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		718	770	823	875	928	980	1033	1085	1046	1122	1199	1275	1352	1428	1505	1581
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	770		935		1073		1238		1100		1320		1540		1760	
	Default	700		850		975		1125		1000		1200		1400		1600	
	-10%	630		765		878		1013		900		1080		1260		1440	

NF97D110V5CR Motor Size: 1 HP Blwr Size: 11 x 11		LOW FIRE HEATING - SCFM [TEMP RISE: 30 - 60 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 40 - 70 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		943	1012	1081	1150	1219	1288	1357	1426	1271	1364	1457	1550	1643	1736	1829	1922
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	935		1073		1238		1403		1320		1540		1760		2008	
	Default	850		975		1125		1275		1200		1400		1600		1825	
	-10%	765		878		1013		1148		1080		1260		1440		1643	

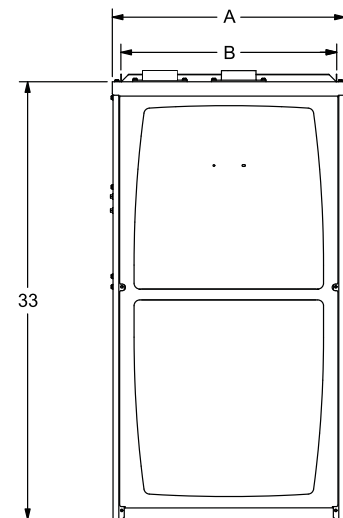
NF97D110V5CR Motor Size: 1 HP Blwr Size: 11 x 11		LOW FIRE HEATING - SCFM [TEMP RISE: 30 - 60 F°]*								HIGH FIRE HEATING - SCFM [TEMP RISE: 40 - 70 F°]*							
	Adj.	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%	-18%	-12%	-6%	Default	+6%	+12%	+18%	+24%
		1005	1078	1152	1225	1299	1372	1446	1519	1333	1430	1528	1625	1723	1820	1918	2015
		FIRST STAGE COOLING - SCFM								SECOND STAGE COOLING - SCFM							
	Speed	Low		Med Low		Med High		High		Low		Med Low		Med High		High	
	+10%	935		1073		1238		1403		1320		1540		1760		2008	
	Default	850		975		1125		1275		1200		1400		1600		1825	
	-10%	765		878		1013		1148		1080		1260		1440		1643	

* @ .10" - .80" w.c.

DIMENSIONS (IN.) - UPFLOW / HORIZONTAL - DOWNFLOW

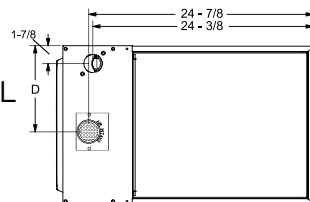
	MODEL	A	B	C	D
UPFLOW/HORIZONTAL	NF97U045V3BR	17-1/2	16-3/8	16	7-5/8
	NF97U070V3BR	17-1/2	16-3/8	16	7-5/8
	NF97U090V3CR	21	19-7/8	19-1/2	9-3/8
	NF97U090V5CR	21	19-7/8	19-1/2	9-3/8
	NF97U110V5CR	21	19-7/8	19-1/2	9-3/8
	NF97U135V5DR	24-1/2	23-3/8	23	11-1/8
DOWNFLOW	NF97D070V4BR	17-1/2	16-3/8	16	15-1/2
	NF97D090V5CR	21	19-7/8	19-1/2	19
	NF97D110V5CR	21	19-7/8	19-1/2	19

FRONT VIEW

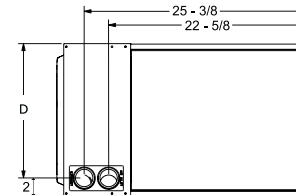


UPFLOW / HORIZONTAL

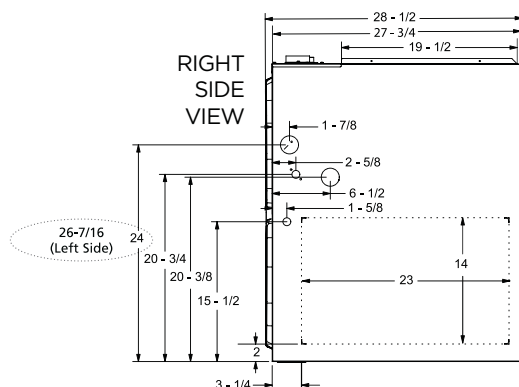
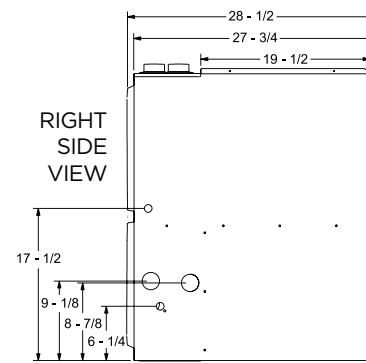
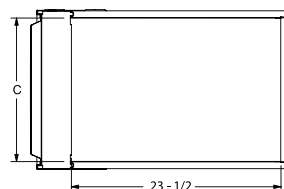
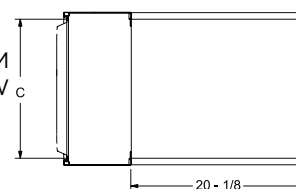
TOP VIEW



TOP VIEW



DOWNFLOW

RIGHT
SIDE
VIEWRIGHT
SIDE
VIEWBOTTOM
VIEWBOTTOM
VIEW

ACCESSORY LIST

Description	Catalog Number
Return Air Base	
Return Air Base 17.5 Inch	68W62
Return Air Base 21.0 Inch	68W63
Return Air Base 24.5 Inch	68W64
Natural to LP Kits	
2-Stage – 90	11K48
High Altitude (> 7500')	11K47
Downflow Combustible Flooring Base	
17.5" B Width	11M60
21.0" C Width	11M61
Flush Mount Termination (90% Furnaces Only)	
2" & 3.0" Vent – Us Version	51W11
Concentric Vent Kit (90% Furnaces Only)	
1-1/2" Vent Version	71M80
2" Vent Version	69M29
3" Vent Version	60L46
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	

NOTE: 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



GE APPLIANCES

All specifications and illustrations subject
to change without notice and without
incurring obligations.

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