

Performance 80 Single Stage Furnace

FLEXIBILITY

- 35" (889mm) high for more flexibility in tight locations
- Factory shipped for natural gas, with Propane gas conversion kits available
- Four position – upflow/downflow/horizontal installation
- Category I venting
- Three position inducer capability
- Common venting with water heater

SERVICE

- Self diagnostics
- Entire blower assembly mounted on rails

COMFORT

- Adjustable timed blower Off delay
- 24 and 115 VAC humidifier terminal
- Electronic air cleaner terminal

EFFICIENCY

- 80% AFUE efficiency range
- Single stage gas valve operation
- Single stage integrated control
- Multispeed, prelubricated PSC motors
- Induced draft blower
- In-shot burners

QUALITY

- RPJ III Aluminized steel heat exchanger
- High temperature limit control prevents overheating
- Direct ignition with Silicon Nitride ignitor
- Flame roll-out sensors standard
- Louvered doors
- One piece repainted steel cabinet
- Masonry chimney adapter available

WARRANTY *

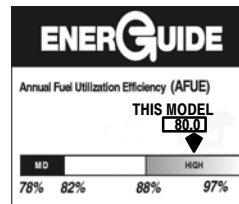
- 20 year heat exchanger limited warranty
- 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty
- * Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.



Illustrations and photographs are only representative. Some product models may vary.

▲ WARNING

This furnace is not designed for use in mobile homes, trailers, or recreational vehicles. Such use could result in property damage and/or death.



UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)							
Model Number	Dimensions H x W x D		Input (MBTUH)	Efficiency AFUE	Cooling Capacity @ .5 in wc (125 Pa)	Shipping Wt.	
	Inches	Millimeters				Lbs	Kg
N8MPN050B12B	35 x 15 ¹ / ₂ x 29	889 x 394 x 737	50,000	80%	1.5 – 3.0 TON	118	54
N8MPN075B12B	35 x 15 ¹ / ₂ x 29	889 x 394 x 737	75,000	80%	1.5 – 3.0 TON	128	58
N8MPN075F16B	35 x 19 ¹ / ₈ x 29	889 x 486 x 737	75,000	80%	2.0 – 4.0 TON	140	64
N8MPN100F14B	35 x 19 ¹ / ₈ x 29	889 x 486 x 737	100,000	80%	2.0 – 3.5 TON	144	65
N8MPN100F20B	35 x 19 ¹ / ₈ x 29	889 x 486 x 737	100,000	80%	3.5 – 5.0 TON	150	68
N8MPN100J22B	35 x 22 ³ / ₄ x 29	889 x 578 x 737	100,000	80%	3.5 – 5.5 TON	145	66
N8MPN125J20B	35 x 22 ³ / ₄ x 29	889 x 578 x 737	125,000	80%	3.5 – 5.0 TON	166	75
N8MPN125J22B	35 x 22 ³ / ₄ x 29	889 x 578 x 737	125,000	80%	3.5 – 5.5 TON	160	73

FURNACE SPECIFICATIONS MULTI-POSITION

Model Number NATURAL GAS	N8MPN							
	050B12	075B12	075F16	100F14	100F20	100J22	125J20	125J22
INPUT (btuh)	50,000	75,000	75,000	100,000	100,000	100,000	125,000	125,000
HTG. CAP. (btuh)	40,000	60,000	60,000	80,000	80,000	80,000	100,000	100,000
AFUE % (ICS)	80%	80%	80%	80%	80%	80%	80%	80%
TEMP. RISE DEGREES (°F/°C)	35-65/19-36	35-65/19-36	25-55/14-30	30-60/17-33	35-65/19-36	30-60/17-33	30-60/17-33	30-60/17-33
VOLTS/PH/Hz	115/1/60							
MIN./MAX. VOLTAGE	104/127							
RATING PLATE AMPS.	9.7	9.2	9.7	8.9	11.7	13.2	11.7	13.2
TRANSFORMER (V.A.)	40							
GAS PIPE SIZE – in(mm)	1/2 (12.7)							
FLUE COLLAR SIZE – in(mm)	4 (101.6)							
COOLING CAP.	3	3	4	3.5	5	5.5	5	5.5
DIMENSIONS H x W x D – in(mm)	35 x 15 1/2 x 29 (889 x 394 x 737)		35 x 19 1/8 x 29 (889 x 486 x 737)			35 x 22 3/4 x 29 (889 x 578 x 737)		
SHIPPING WEIGHT – Lbs(Kg)	118 (54)	128 (58)	140 (64)	144 (65)	150 (68)	145 (66)	166 (75)	160 (73)

(ICS) = Isolated Combustion System

ACCESSORIES

Model Number	Description	Used With Models
TWINNING KIT		
NAHA004WK	Twinning kit. Allows operation of two identical-size model furnaces.	ALL N8MPN FURNACES
GAS CONVERSION KITS		
NAHA001LP 1172958**	Natural gas to Propane conversion Kit. Allows field conversion to Propane gas.	ALL N8MPN FURNACES
NAHA001NG 1172960**	Propane to natural gas conversion kit. Allows field conversion to natural gas. (Single Stage)	ALL N8MPN FURNACES
FILTER KITS		
NAHA001FF	Filter Kits – External filter frame. 16" x 25" (406mm x 635mm)	Side Return (All Furnaces) Bottom Return (All "F" 19 1/8" Furnaces under 1600 CFM)
NAHA001FP	External filter frame. 16" x 25" (406mm x 635mm) Bulk Pack Kit – Qty 10	
NAHA002FF	Filter Kits – Bottom return filter frame kit 20" x 25" (508mm x 635mm)	All "J" 22 3/4" Furnaces
NAHA002FP	Bottom return filter frame kit 20" x 25" (508mm x 635mm) Bulk Pack Kit – Qty 10	
NAHA003FF	Bottom or side return filter frame kit 14" x 25" (356mm x 635mm)	All "B" 15 1/2" Furnaces
NAHA003FP	Bottom return filter frame kit 14" x 25" (356mm x 635mm) Bulk Pack Kit – Qty 10	
NAHA001TK	Duct Standoff Filter Kit. To adapt 20" x 25" (508mm x 635mm) filter for single side return.	Side Return (All single return applications with 1600 CFM or greater) Bottom Return (All "F" 19 1/8" Furnaces under 1600 CFM)
COMBUSTIBLE FLOOR SUBBASES		
NAHH001SB	Subbase Furnace ONLY: All 15 1/2" wide furnace models	N8MPN050B-075B
NAHH002SB	Subbase Furnace ONLY: All 19 1/4" wide furnace models	N8MPN075F-100F
NAHH003SB	Subbase Furnace ONLY: All 22 3/4" wide furnace models	N8MPN100J, 125J, 150J
NAHH004SB	Subbase Furnace w/15 1/2" cased coil	Counterflow furnace N8MPN050B-075B
NAHH005SB	Subbase Furnace w/19 1/4" cased coil	Counterflow furnace N8MPN075B-100F
NAHH006SB	Subbase Furnace w/22 3/4" cased coil	Counterflow furnace N8MPN100J, 125J, 150J
MASONRY CHIMNEY ADAPTER		
NAHA001DH	Chimney adapter 6"(152mm)	N8MPN050, 075, 100
NAHA002DH	Chimney adapter 7"(178mm)	N8MPN125
VENT GUARD		
NAHA002VC	Downflow vent guard	All Furnaces in the Downflow application
COIL ADAPTER		
NAHA001CA	Coil Adapter for Downflow Furnaces	All Furnaces in the Downflow Application
WARNING LABEL REPLACEMENT KIT		
NAHA002WL	To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed	N8MPN

** Fast part number

BLOWER PERFORMANCE MULTI-POSITION

Model Number	N8MPN							
	050B12 (1)(7)	075B12 (1)(7)	075F16 (1)(3)(7)	100F14 (1)(7)	100F20 (2)(4)(7)	100J22 (2)(7)	125J20 (2)(5)(7)	125J22 (2)(6)(7)
BLOWER D x W - in(mm)	11 x 8 (279 x 203)	11 x 8 (279 x 203)	11 x 10 (279 X 254)	11 x 10 (279 X 254)	11 x 10 (279 X 254)	11 x 10 (279 X 254)	11 x 10 (279 X 254)	11 x 10 (279 X 254)
MOTOR H.P. (TYPE)	¹ / ₂ /PSC	¹ / ₂ /PSC	¹ / ₂ /PSC	¹ / ₂ /PSC	¹ / ₂ /PSC	³ / ₄ /PSC	¹ / ₂ /PSC	³ / ₄ /PSC
MOTOR SPEEDS	4	4	4	4	4	4	4	4

AIRFLOW DATA

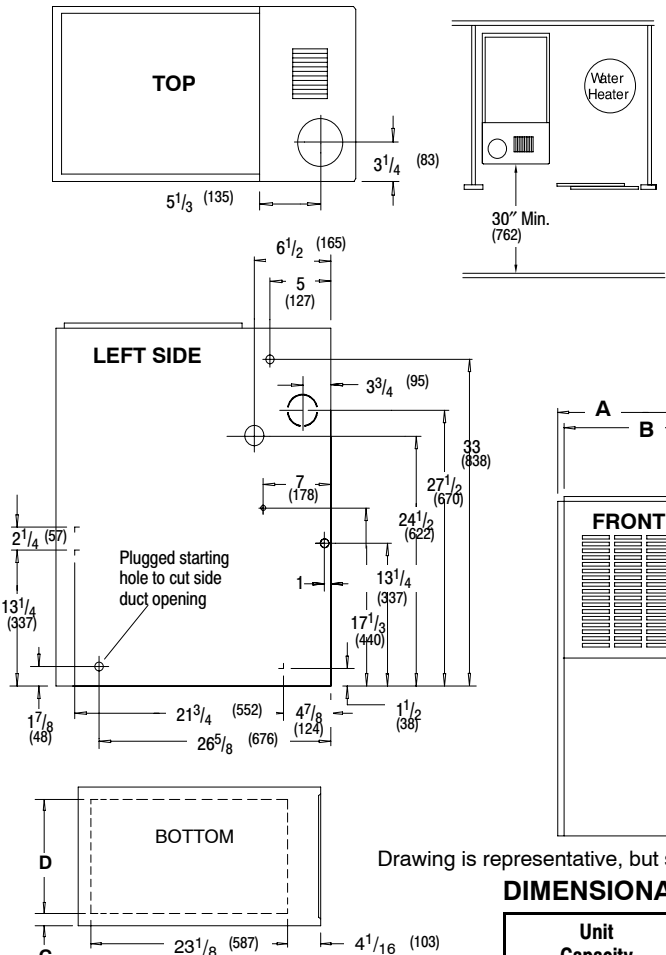
ESP in wc	Filter Position	MAX CFM's							
		050B12	075B12	075F16	100F14	100F20	100J22	125J20	125J22
.10	LOW	472	695	598	770	831	1785	860	1901
	MEDIUM LOW	704	963	841	949	1125	1997	1149	2121
	MEDIUM HIGH	1167	1220	1427	1328	1582	2292	1666	2362
	HIGH	1387	1559	1861	1760	2216	2519	2147	2464
.20	LOW	419	670	499	709	823	1765	848	1867
	MEDIUM LOW	671	946	795	911	1124	1970	1154	2077
	MEDIUM HIGH	1135	1202	1406	1282	1585	2245	1622	2303
	HIGH	1338	1511	1816	1718	2198	2468	2137	2424
.30	LOW	365	644	400	648	814	1741	836	1833
	MEDIUM LOW	638	928	748	873	1123	1941	1158	2033
	MEDIUM HIGH	1102	1183	1384	1235	1588	2206	1577	2244
	HIGH	1288	1463	1770	1675	2179	2410	2126	2385
.40	LOW	328	616	345	596	798	1711	821	1789
	MEDIUM LOW	605	901	708	823	1120	1902	1149	1985
	MEDIUM HIGH	1069	1151	1364	1175	1583	2154	1569	2172
	HIGH	1241	1412	1724	1613	2127	2351	2137	2301
.50	LOW	290	588	289	544	781	1674	805	1745
	MEDIUM LOW	572	873	667	772	1117	1861	1140	1936
	MEDIUM HIGH	1035	1118	1343	1115	1577	2097	1561	2100
	HIGH	1194	1361	1677	1551	2074	2284	2148	2217
.60	LOW	250	564	263	501	749	1633	782	1685
	MEDIUM LOW	547	822	625	728	1085	1807	1111	1855
	MEDIUM HIGH	987	1068	1299	1076	1559	2036	1539	1997
	HIGH	1132	1300	1612	1478	1992	2206	2035	2125
.70	LOW	209	540	236	457	717	1581	758	1624
	MEDIUM LOW	522	771	582	684	1053	1749	1081	1773
	MEDIUM HIGH	939	1017	1254	1036	1541	1965	1516	1894
	HIGH	1070	1239	1547	1404	1909	2121	1922	2033
.80	LOW	---	502	---	409	663	1517	710	1533
	MEDIUM LOW	483	723	530	628	1009	1683	1045	1671
	MEDIUM HIGH	880	959	1192	966	1457	1883	1472	1804
	HIGH	1004	1161	1454	1310	1827	2030	1845	1927
.90	LOW	---	463	---	361	609	1428	661	1442
	MEDIUM LOW	443	675	477	572	964	1597	1009	1569
	MEDIUM HIGH	820	900	1129	895	1373	1793	1428	1714
	HIGH	937	1083	1360	1215	1745	1928	1767	1821
1.00	LOW	---	413	---	308	561	1326	614	1329
	MEDIUM LOW	370	615	436	507	888	1478	925	1455
	MEDIUM HIGH	753	835	1016	811	1307	1667	1357	1583
	HIGH	858	998	1262	1093	1641	1814	1663	1685

- NOTE: (1) Data based on Bottom Only or One Side return.
 (2) Data based on Both Sides or Bottom plus One Side
 (3) 075F16 Reduce airflow by 5% if Bottom Only return.
 (4) 100F20 Reduce airflow by 10% if Bottom Only return.
 (5) 125J20 Reduce airflow by 5% if Bottom Only return.
 (6) 125J22 Reduce airflow by 10% if Bottom Only return.
 (7) Gray area is above maximum temperature rise range.

MAX CFM's	
Filter Size	CFM
14" X 25"	1400
16" X 25"	1600
20" X 25"	2000
24" X 25"	2500
Max CFM based on 600 FPM	

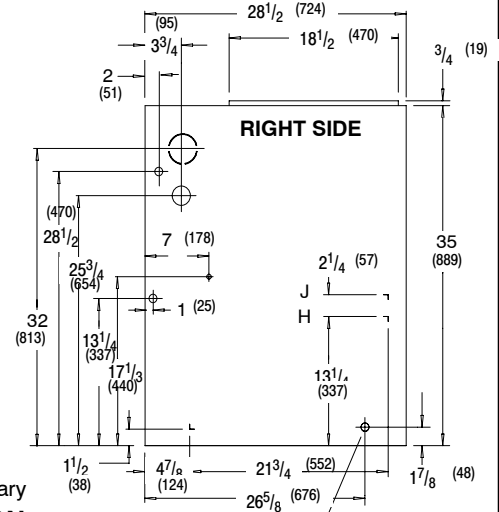
CFM = Cubic Feet per Minute Airflow.
 Filter required for each return-air inlet. Airflow performance includes 1" washable (600 FPM max) filter media.

UNIT DIMENSIONS



MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS FOR ALL UNITS	
REAR	0
FRONT (combustion air openings in furnace and in structure)	3" (76 mm)
Required For Service	*30" (762 mm)
ALL SIDES OF SUPPLY PLENUM	1" (25 mm)
SIDES	0
VENT	
Single Wall Vent	6" (152 mm)
Type B-1 Double Wall Vent	1" (25 mm)
TOP OF FURNACE	1" (25 mm)

Horizontal position: Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs or framing.



Drawing is representative, but some models may vary

DIMENSIONAL INFORMATION

Unit Capacity	Cabinet		Bottom		Duct Size
	A	B	C	D	
N8MPN050B12 N8MPN075B12	15 ¹ / ₂ (394)	14 (356)	1 ³ / ₈ (35)	12 ⁵ / ₈ (321)	H
N8MPN075F16 N8MPN100F14 N8MPN100F20	19 ¹ / ₈ (486)	17 ⁵ / ₈ (447)	2 ¹ / ₈ (54)	14 ³ / ₄ (375)	J
N8MPN100J22 N8MPN125J20 N8MPN125J22	22 ³ / ₄ (578)	21 ¹ / ₄ (540)	1 ¹⁵ / ₁₆ (49)	18 ³ / ₄ (476)	J

NOTE: Evaporator "A" coil drain pan dimensions may vary from furnace duct opening size. Always consult evaporator specifications for duct size requirements.

Unit is designed for bottom return or side return.

Return air through back of unit is NOT allowed.

ALL DIMENSIONS in (mm)
1 in = 25.4 mm

MODEL NUMBER IDENTIFICATION GUIDE

N N = Non-Brand Specific	8 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace	MP UP = Upflow DN = Downflow UH = Upflow/Horizontal HZ = Horizontal DH = Downflow/Horizontal MP = Multiposition, Upflow/Downflow/Horizontal	N 1 = One (Single) Pipe 2 = Two Pipe D = 1 or 2 Pipe L = Low NOx	075 N = Single Stage P = PVC Vent T = Two Stage V = Variable Speed	B	12 08 = 800 CFM 16 = 1600 CFM 12 = 1200 CFM 20 = 2000 CFM 14 = 1400 CFM 22 = 2200 CFM	B B = 15.5" Wide J = 22.8" Wide F = 19.1" Wide L = 24.5" Wide	# Engineering Rev. Denotes minor change Marketing Digit Denotes major change Cabinet Width Input (Nominal MBTUH)
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International Comfort Products, LLC
Lewisburg, TN 37091 U.S.A.
www.GoTempstar.com