

Deluxe 80 Single Stage Furnace

FLEXIBILITY

- 40" (1016mm) high for ease of installation
- 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 prepainted steel cabinet
- Masonry chimney adapter available

WARRANTY *

- 1 year No Hassle Replacement™ limited warranty
- 20 year heat exchanger limited warranty
- 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty

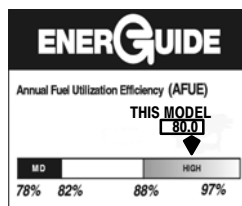
* Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.



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.



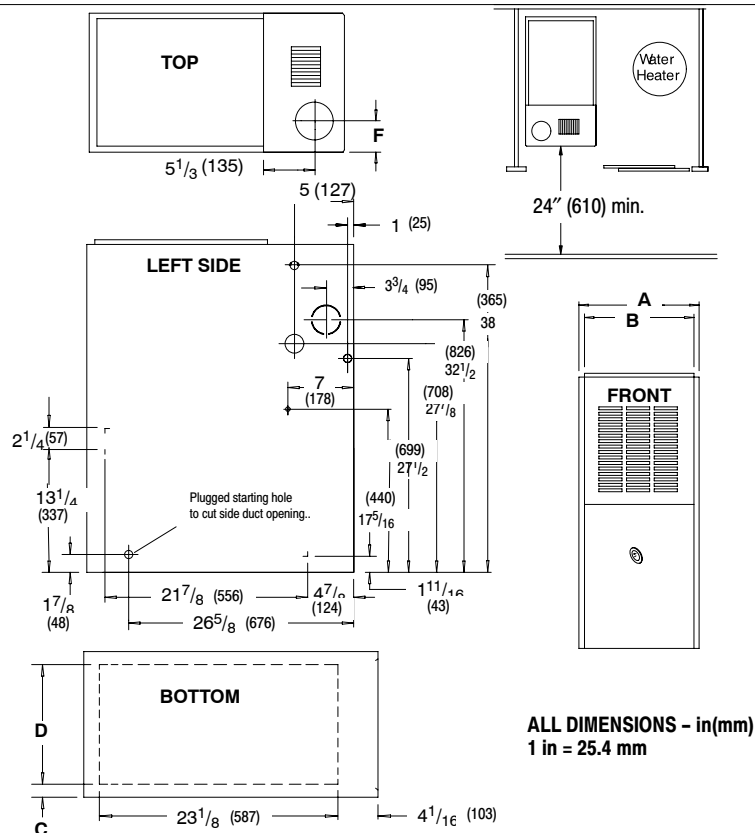
UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)							
Model Number	Dimensions H x W x D		Input (MBTUH)	Efficiency AFUE +	Cooling Capacity @ .5 in wc (125 Pa)	Shipping Wt.	
	Inches	Millimeters				Lbs	Kg
H8MPN050B12B	40 x 15 1/2 x 29	1016 x 394 x 737	50,000	80%	1.5 – 3.0 TON	128	58
H8MPN075B12B	40 x 15 1/2 x 29	1016 x 394 x 737	75,000	80%	1.5 – 3.0 TON	134	61
H8MPN075F16B	40 x 19 1/8 x 29	1016 x 486 x 737	75,000	80%	2.5 – 4.0 TON	140	64
H8MPN100F14B	40 x 19 1/8 x 29	1016 x 486 x 737	100,000	80%	2.0 – 3.5 TON	140	64
H8MPN100F20B	40 x 19 1/8 x 29	1016 x 486 x 737	100,000	80%	3.5 – 5.0 TON	156	71
H8MPN100J20B	40 x 22 3/4 x 29	1016 x 578 x 737	100,000	80%	3.5 – 5.0 TON	166	75
H8MPN125J20B	40 x 22 3/4 x 29	1016 x 578 x 737	125,000	80%	3.5 – 5.0 TON	172	78
H8MPN150J20B	40 x 22 3/4 x 29	1016 x 578 x 737	150,000	80%	3.5 – 5.0 TON	188	85

FURNACE SPECIFICATIONS MULTI-POSITION

Model Number NATURAL GAS	*8MPN							
	050B12	075B12	075F16	100F14	100F20	100J20	125J20	150J20
INPUT (btuh)	50,000	75,000	75,000	100,000	100,000	100,000	125,000	150,000
HTG. CAP. (btuh)	40,000	60,000	60,000	81,000	81,000	81,000	101,000	121,000
AFUE % (ICS)	80%	80%	80%	80%	80%	80%	80%	80%
TEMP. RISE DEGREES (°F/°C)	35-65/19-36	30-60/17-33	30-60/17-33	35-65/19-36	35-65/19-36	35-65/19-36	35-65/19-36	35-65/19-36
VOLTS/PH/Hz	115/1/60							
MIN./MAX. VOLTAGE	104/127							
RATING PLATE AMPS.	9.7	9.0	9.7	9.2	12.0	12.0	12.0	13.5
TRANSFORMER (V.A.)	40							
GAS PIPE SIZE - in(mm)	1/2 (12.7)							
FLUE COLLAR SIZE - in(mm)	4 (101.6)							
COOLING CAP.	3.0	3.0	4.0	3.5	5.0	5.0	5.0	5.0
DIMENSIONS H x W x D - in(mm)	40 x 15 1/2 x 29 (1016 x 394 x 737)		40 x 19 1/8 x 29 (1016 x 486 x 737)			40 x 22 3/4 x 29 (1016 x 578 x 737)		
SHIPPING WEIGHT - Lbs(Kg)	128 (58)	134 (61)	140 (64)	140 (64)	156 (71)	166 (75)	172 (78)	188 (85)

(ICS) = Isolated Combustion System

UNIT DIMENSIONS



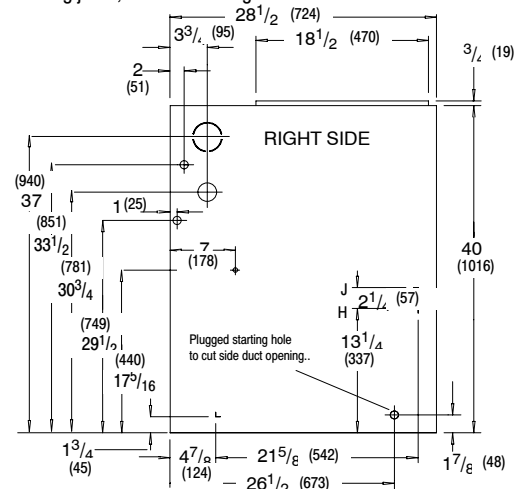
Unit Capacity	Cabinet		Top	Bottom		Duct Size
	A	B	F	C	D	
*8MPN050B12 *8MPN075B12	15 1/2 (394)	14 (356)	6 (152)	1 3/8 (35)	12 5/8 (321)	H
*8MPN075F16 *8MPN100F14 *8MPN100F20	19 1/8 (486)	17 3/8 (447)	7 3/4 (197)	2 1/8 (54)	14 3/4 (375)	J
*8MPN100J22 *8MPN125J20 *8MPN150J20	22 3/4 (578)	21 1/4 (540)	9 1/2 (241)	1 5/16 (49)	18 3/4 (476)	J

* Denotes Brand

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	*24" (610 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)

*30" (762 mm) clearance recommended for furnace removal.

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.



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

Furnace is designed for bottom return or side return.

Return air through back of furnace is NOT allowed.

Drawing is representative, but some models may vary

BLOWER PERFORMANCE MULTI-POSITION

Model Number	*8MPN							
	050B12 (1)(7)	075B12 (1)(7)	075F16 (1)(3)(7)	100F14 (1)(7)	100F20 (2)(4)(7)	100J20 (2)(7)	125J20 (2)(5)(7)	150J20 (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)	12 x 12 (305 x 305)
MOTOR H.P. (TYPE)	1/2/PSC	1/2/PSC	1/2/PSC	1/2/PSC	1/2/PSC	1/2/PSC	1/2/PSC	3/4/PSC
MOTOR SPEEDS	4	4	4	4	4	4	4	4

Circulation Air Blower Data

*8MPN/L050B12 (1)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	472	223	704	332	1167	551	1387	655
	0.20	50	419	198	671	317	1135	536	1338	631
	0.30	75	365	172	638	301	1102	520	1288	608
	0.40	100	328	155	605	286	1069	504	1241	586
	0.50	125	290	137	572	270	1035	488	1194	563
	0.60	149	250	118	547	258	987	466	1132	534
	0.70	174	209	99	522	246	939	443	1070	505
	0.80	199	---	---	483	228	880	415	1004	474
	0.90	224	---	---	443	209	820	387	937	442
	1.00	249	---	---	370	175	753	355	858	405

*8MPN/L100F20 (2)(4)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.1	25	831	392	1125	531	1582	747	2216	1046
	0.2	50	823	388	1124	530	1585	748	2198	1037
	0.3	75	814	384	1123	530	1588	749	2179	1028
	0.4	100	798	377	1120	529	1583	747	2127	1004
	0.5	125	781	369	1117	527	1577	744	2074	979
	0.6	149	749	353	1085	512	1559	736	1992	940
	0.7	174	717	338	1053	497	1541	727	1909	901
	0.8	199	663	313	1009	476	1457	688	1827	862
	0.9	224	609	287	964	455	1373	648	1745	824
	1	249	561	265	888	419	1307	617	1641	774

*8MPN/L075B12 (1)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.1	25	695	328	963	454	1220	576	1559	736
	0.2	50	670	316	946	446	1202	567	1511	713
	0.3	75	644	304	928	438	1183	558	1463	690
	0.4	100	616	291	901	425	1151	543	1412	666
	0.5	125	588	277	873	412	1118	528	1361	642
	0.6	149	564	266	822	388	1068	504	1300	613
	0.7	174	540	255	771	364	1017	480	1239	585
	0.8	199	502	237	723	341	959	453	1161	548
	0.9	224	463	218	675	319	900	425	1083	511
	1	249	413	195	615	290	835	394	998	471

*8MPN/L100J20 (2)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.1	25	773	365	1045	493	1453	686	2147	1013
	0.2	50	766	361	1029	486	1461	689	2142	1011
	0.3	75	755	356	1037	489	1469	693	2128	1004
	0.4	100	737	348	1037	489	1469	693	2113	997
	0.5	125	712	336	1020	481	1459	689	2078	981
	0.6	149	683	322	1013	478	1446	682	2029	958
	0.7	174	647	305	979	462	1424	672	1963	926
	0.8	199	603	285	942	445	1400	661	1892	893
	0.9	224	554	261	894	422	1347	636	1795	847
	1	249	497	235	828	391	1262	596	1705	805

*8MPN/L075F16 (1)(3)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.1	25	598	282	841	397	1427	673	1861	878
	0.2	50	499	235	795	375	1406	664	1816	857
	0.3	75	400	189	748	353	1384	653	1770	835
	0.4	100	345	163	708	334	1364	644	1724	814
	0.5	125	289	136	667	315	1343	634	1677	791
	0.6	149	263	124	625	295	1299	613	1612	761
	0.7	174	236	111	582	275	1254	592	1547	730
	0.8	199	---	---	530	250	1192	563	1454	686
	0.9	224	---	---	477	225	1129	533	1360	642
	1	249	---	---	436	206	1016	479	1262	596

*8MPN/L125J20 (2)(5)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.1	25	860	406	1149	542	1666	786	2147	1013
	0.2	50	848	400	1154	545	1622	765	2137	1008
	0.3	75	836	395	1158	546	1577	744	2126	1003
	0.4	100	821	387	1149	542	1569	740	2137	1008
	0.5	125	805	380	1140	538	1561	737	2148	1014
	0.6	149	782	369	1111	524	1539	726	2035	960
	0.7	174	758	358	1081	510	1516	715	1922	907
	0.8	199	710	335	1045	493	1472	695	1845	871
	0.9	224	661	312	1009	476	1428	674	1767	834
	1	249	614	290	925	437	1357	640	1663	785

*8MPN100F14 (1)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.1	25	770	363	949	448	1328	627	1760	831
	0.2	50	709	335	911	430	1282	605	1718	811
	0.3	75	648	306	873	412	1235	583	1675	790
	0.4	100	596	281	823	388	1175	555	1613	761
	0.5	125	544	257	772	364	1115	526	1551	732
	0.6	149	501	236	728	344	1076	508	1478	697
	0.7	174	457	216	684	323	1036	489	1404	663
	0.8	199	409	193	628	296	966	456	1310	618
	0.9	224	361	170	572	270	895	422	1215	573
	1	249	308	145	507	239	811	383	1093	516

*8MPN150J20 (2)(7)(8) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.1	25	1656	782	1915	904	2168	1023	2385	1126
	0.2	50	1620	765	1851	874	2129	1005	2360	1114
	0.3	75	1583	747	1787	843	2090	986	2335	1102
	0.4	100	1545	729	1742	822	2044	965	2274	1073
	0.5	125	1507	711	1697	801	1997	942	2212	1044
	0.6	149	1449	684	1647	777	1927	909	2149	1014
	0.7	174	1390	656	1596	753	1856	876	2085	984
	0.8	199	1301	614	1521	718	1755	828	1992	940
	0.9	224	1212	572	1445	682	1654	781	1898	896
	1	249	1125	531	1337	631	1561	737	1777	839

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) 150J20 Reduce airflow by 10% if Bottom Only return

(7) Gray area is above maximum temperature rise range

CFM(L/s) – Cubic Feet per Minute (Liters per second) airflow. Filter required for each return-air inlet. Airflow performance includes 1" (25.4mm) washable [600 FPM (3.0 m/s) max] filter media.

MAX CFM's

Filter Size	CFM	L/s
14" X 25" (356x635)	1400	661
16" X 25" (406x635)	1600	755
20" X 25" (506x635)	2000	944
24" X 25" (610x635)	2500	1180
Max CFM (m/s) based on 600 FPM (3.0 m/s)		

MODEL NUMBER IDENTIFICATION GUIDE

*	8	M P	N	0 7 5	B	1 2	B	#
Brand								Engineering Rev. Denotes minor change
Brand Efficiency 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace								Marketing Digit Denotes major change
Installation Configuration UP = Upflow DN = Downflow UH = Upflow/Horizontal HZ = Horizontal DH = Downflow/Horizontal MP = Multiposition, Upflow/Downflow/Horizontal								Cooling Airflow 08 = 800 CFM 16 = 1600 CFM 12 = 1200 CFM 20 = 2000 CFM 14 = 1400 CFM 22 = 2200 CFM
Major Design Feature 1 = One (Single) Pipe N = Single Stage 2 = Two Pipe P = PVC Vent D = 1 or 2 Pipe T = Two Stage L = Low NOx V = Variable Speed								Cabinet Width B = 15.5" Wide J = 22.8" Wide F = 19.1" Wide L = 24.5" Wide Input (Nominal MBTUH)

ACCESSORIES

Model Number	Description	Used With Models
TWINNING KIT		
NAHA004WK	Twinning kit. Allows operation of two identical-size model furnaces.	ALL *8MPN FURNACES
GAS CONVERSION KITS		
NAHA001LP 1172958**	Natural gas to Propane conversion Kit. Allows field conversion to Propane gas.	ALL *8MPN FURNACES
NAHA001NG 1172960**	Propane to natural gas conversion kit. Allows field conversion to natural gas. (Single Stage)	ALL *8MPN 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	*8MPN050–075B
NAHH002SB	Subbase Furnace ONLY: All 19 ¹ / ₄ " wide furnace models	*8MPN075–100F
NAHH003SB	Subbase Furnace ONLY: All 22 ³ / ₄ " wide furnace models	*8MPN100–125J
NAHH004SB	Subbase Furnace w/15 ¹ / ₂ " cased coil	Counterflow furnace *8MPN050–075B
NAHH005SB	Subbase Furnace w/19 ¹ / ₄ " cased coil	Counterflow furnace *8MPN075–100F
NAHH006SB	Subbase Furnace w/22 ³ / ₄ " cased coil	Counterflow furnace *8MPN100–125J
MASONRY CHIMNEY ADAPTER		
NAHA001DH	Chimney adapter 6"(152mm)	*8MPN050, 075, 100
NAHA002DH	Chimney adapter 7"(178mm)	*8MPN125 & 150
VENT GUARD		
NAHA002VC	Downflow vent guard	All furnaces in downflow applications
COIL ADAPTER		
NAHA001CA	Coil Adapter for Downflow Furnaces	All Multi- Position Furnaces in the Downflow Application
WARNING LABEL REPLACEMENT KIT		
NAHA002WL	To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed	*8MPN

* Denotes Brand (C, H, T)

** Fast part number

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