

80+ PSC Motor Two-Stage Heating Furnace

FLEXIBILITY

- 40" 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
- 2-stage gas valve operation
- 2-stage integrated control
- Multispeed, prelubricated PSC motors
- Induced draft blower
- In-shot burners
- California NOx approved

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 (Some models)
- 5 year limited parts warranty
- 7 year No Hassle Replacement limited warranty

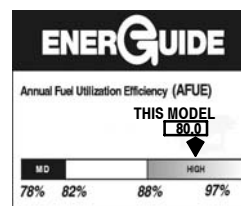


Illustrations and photographs are only representative.
Some product models may vary.

⚠ 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.

**NO
hassle**
REPLACEMENT WARRANTY
see warranty certificate for details



UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)					
Model Number	Heat Exchangers *	Dimensions H x W x D (In.)	Input (MBTUH)	Efficiency AFUE	Cooling Capacity @ .5 in wc
H8MPT050B12B	25 year	40 x 15 ¹ / ₂ x 29	50,000	80%	1.5 - 3.0 TON
H8MPT075F14B	25 year	40 x 19 ¹ / ₈ x 29	75,000	80%	2.0 - 3.5 TON
H8MPT100F14B	25 year	40 x 19 ¹ / ₈ x 29	100,000	80%	2.0 - 3.5 TON
H8MPT100J20B	25 year	40 x 22 ³ / ₄ x 29	100,000	80%	3.5 - 5.0 TON
H8MPT125J20B	25 year	40 x 22 ³ / ₄ x 29	125,000	80%	3.5 - 5.0 TON

*LIMITED 25 YEAR WARRANTY

FURNACE SPECIFICATIONS MULTI-POSITION

Model Number	NATURAL GAS	*8MPT050B12	*8MPT075F14	*8MPT100F14	*8MPT100J20	*8MPT125J20
INPUT (btuh)	HI Fire LO Fire	50,000 35,000	75,000 52,500	100,000 70,000	100,000 70,000	125,000 87,500
HTG. CAP. (btuh)	HI Fire LO Fire	40,000 28,000	60,000 42,000	81,000 57,000	81,000 61,000	101,000 71,000
AFUE % (ICS)		80.0%	80.0%	80.0%	80.0%	80.0%
NOx (Ng/J)		<40	<40	<40	<40	<40
TEMP. RISE (DEGREES)	HI Fire (°F/°C) LO Fire (°F/°C)	30 - 60/17-33 25 - 55/14-30	30 - 60/17-33 25 - 55/14-30	35 - 65/19-36 35 - 65/19-36	35 - 65/19-36 35 - 65/19-36	30 - 60/17-33 25 - 55/14-30
VOLTS/PH/HZ		115/60/1	115/60/1	115/60/1	115/60/1	115/60/1
MIN./MAX. VOLTAGE		104/127	104/127	104/127	104/127	104/127
RATING PLATE AMPS		9.8	9.8	9.3	12.1	12.1
TRANSFORMER (V.A.)		40	40	40	40	40
GAS PIPE SIZE (IN.)		1/2	1/2	1/2	1/2	1/2
FLUE COLLAR SIZE		4"	4"	4"	4"	4"
COOLING CAP.		3.0 TON	3.5 TON	3.5 TON	5.0 TON	5.0 TON
FILTER SIZE (IN.) (1 required)		14 x 25 x 1	14 x 25 x 1	16 x 25 x 1 (2)	16 x 25 x 1 (2)	16 x 25 x 1 (2)
SHIPPING WEIGHT (LBS.)		133	150	176	174	178
DIMENSIONS (in.) HEIGHT		40	40	40	40	40
WIDTH X DEPTH		15 ¹ / ₂ x 28 ¹ / ₂	19 ¹ / ₈ x 28 ¹ / ₂	19 ¹ / ₈ x 28 ¹ / ₂	22 ³ / ₄ x 28 ¹ / ₂	22 ³ / ₄ x 28 ¹ / ₂

* Denotes Brand (C, H, T)

ACCESSORIES

Model Number	Description	Used With Models
TWINNING KIT		
NAHA004WK	Twinning kit. Allows operation of two identical-size model furnaces.	ALL *8MPT FURNACES
GAS CONVERSION KITS		
NAHA002LP (1172959*)	Natural gas to Propane conversion Kit. Allows field conversion to Propane gas.	ALL *8MPT FURNACES
NAHA002NG (1172961*)	Propane to natural gas conversion kit. Allows field conversion to natural gas. (Single Stage)	ALL *8MPT FURNACES
BLOWER UPGRADE KITS		
NAHA050VBE	Blower Upgrade Kit for B Series furnace only - Variable speed blower upgrade conversion to a two stage cooling compatible variable speed motor (consists of blower motor and electronics for two stage furnaces ONLY)	*8MPT050
NAHA075VBE		*8MPT075
NAHA100VBE		*8MPT100
NAHA125VBE		*8MPT125
FILTER KITS		
NAHA001FF	External filter frame. 16" x 25"	Side Return (All Furnaces) Bottom Return (All "F" 19 ¹ / ₈ " Furnaces under 1600 CFM)
NAHA002FF	Bottom return filter frame kit 20" x 25".	(All "J" 22 ³ / ₄ " Furnaces)
NAHA003FF	Bottom or side return filter frame kit 14" x 25".	(All "B" 15 ¹ / ₂ " Furnaces)
NAHA001TK	Duct Standoff Filter Kit. To adapt 20" x 25" 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	*8MPT050
NAHH002SB	Subbase Furnace ONLY: All 19 ¹ / ₄ " wide furnace models	*8MPT075F-100F
NAHH003SB	Subbase Furnace ONLY: All 22 ³ / ₄ " wide furnace models	*8MPT100J-125J
NAHH004SB	Subbase Furnace w/15 ¹ / ₂ " cased coil	Counterflow furnace *8MPT050
NAHH005SB	Subbase Furnace w/19 ¹ / ₄ " cased coil	Counterflow furnace *8MPT075-100
NAHH006SB	Subbase Furnace w/22 ³ / ₄ " cased coil	Counterflow furnace *8MPT100-125
MASONRY CHIMNEY ADAPTER		
NAHA001DH	Chimney adapter (6")	*8MPT075, 100
NAHA002DH	Chimney adapter (7")	*8MPT125
VENT GUARD		
NAHA002VC	Downflow vent guard	All Furnace 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	*8MPT

⁺ Fast part number

Specifications subject to change without notice

BLOWER PERFORMANCE MULTI-POSITION (*8MPT)

Model Number	050B12 (1)	075F14 (1)	100F14 (1)	100J20 (2)	125J20 (2)(3)
BLOWER INCHES (DIA. x WIDTH)	11x8	11x8	11 x 10	11 x 10	11x10
MOTOR H.P. (TYPE)	1/2/PSC	1/2/PSC	1/2/PSC	3/4/PSC	3/4/PSC
MOTOR SPEEDS	3	4	4	4	4

AIRFLOW DATA

.10 ESP in wc	LOW	472	595	770	773	860
	MEDIUM LOW	704	767	985	1045	1149
	MEDIUM HIGH	1167	1310	1328	1453	1666
	HIGH	1387	1683	1760	2147	2147
.20 ESP in wc	LOW	419	567	709	766	848
	MEDIUM LOW	671	720	929	1029	1154
	MEDIUM HIGH	1135	1289	1282	1461	1622
	HIGH	1338	1647	1718	2142	2137
.30 ESP in wc	LOW	365	538	648	755	836
	MEDIUM LOW	638	673	873	1037	1158
	MEDIUM HIGH	1102	1267	1235	1469	1577
	HIGH	1288	1611	1675	2128	2126
.40 ESP in wc	LOW	328	469	596	737	821
	MEDIUM LOW	605	632	823	1037	1149
	MEDIUM HIGH	1069	1246	1175	1469	1569
	HIGH	1241	1561	1613	2113	2148
.50 ESP in wc	LOW	290	400	544	712	805
	MEDIUM LOW	572	590	772	1020	1140
	MEDIUM HIGH	1035	1224	1115	1459	1561
	HIGH	1194	1510	1551	2078	2148
.60 ESP in wc	LOW	250	369	501	683	782
	MEDIUM LOW	547	540	728	1013	1111
	MEDIUM HIGH	987	1184	1076	1446	1539
	HIGH	1132	1441	1478	2029	2035
.70 ESP in wc	LOW	209	338	457	647	758
	MEDIUM LOW	522	489	684	979	1081
	MEDIUM HIGH	939	1144	1036	1424	1516
	HIGH	1070	1372	1404	1963	1922
.80 ESP in wc	LOW	----	309	409	603	710
	MEDIUM LOW	483	436	628	942	1045
	MEDIUM HIGH	880	1065	966	1400	1472
	HIGH	1004	1282	1310	1892	1845
.90 ESP in wc	LOW	---	280	361	554	661
	MEDIUM LOW	443	382	572	894	1009
	MEDIUM HIGH	820	986	895	1347	1428
	HIGH	937	1191	1215	1795	1767
1.00 ESP in wc	LOW	---	242	308	497	614
	MEDIUM LOW	370	338	508	828	925
	MEDIUM HIGH	753	890	811	1262	1357
	HIGH	858	1073	1093	1705	1663

NOTE: (1) Data based on Bottom Only or One Side return.

(2) Data based on Both Sides or Bottom plus One Side

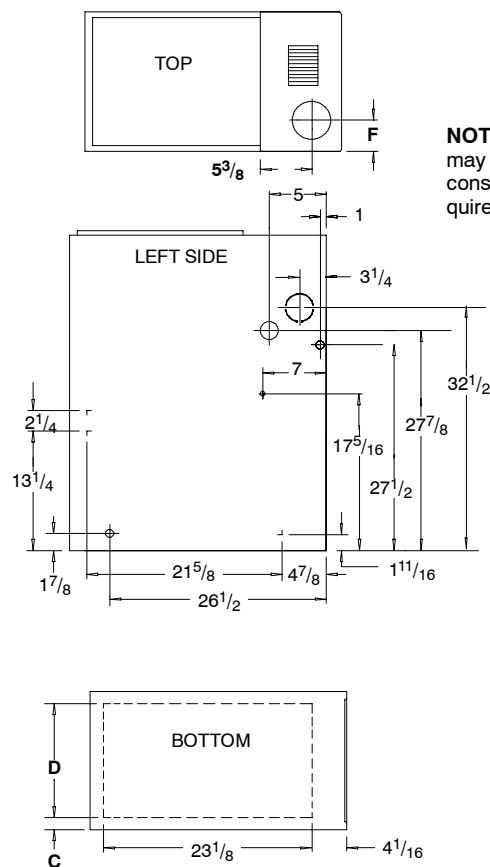
(3) 125J20 Reduce airflow by 5% if Bottom Only return.

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.

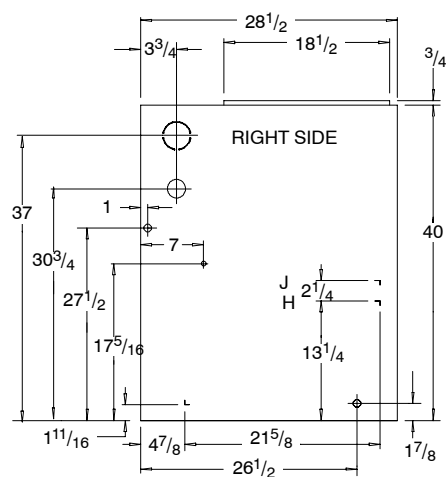
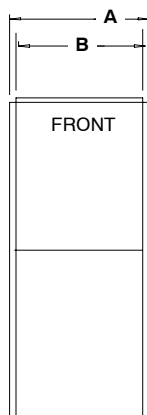
UNIT DIMENSIONS



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.



25-23-44a

Unit Capacity	Cabinet		Top	Bottom		Duct Size
	A	B	F	C	D	
*8MPT050B12	15 ¹ / ₂	14	6	1 ³ / ₈	12 ⁵ / ₈	H
*8MPT075F14 *8MPT100F14	19 ¹ / ₈	17 ¹ / ₂	7 ³ / ₄	2 ¹ / ₈	14 ³ / ₄	J
*8MPT100J20 *8MPT125J20	22 ³ / ₄	21 ¹ / ₄	9 ¹ / ₂	1 ¹⁵ / ₁₆	18 ³ / ₄	J

ALL DIMENSIONS IN INCHES
1 in. = 25.4 mm

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MODEL NUMBER IDENTIFICATION GUIDE

* 8 M P T 0 7 5 B 1 2 B #	
Brand Brand Efficiency 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace Installation Configuration UP = Upflow DN = Downflow UH = Upflow/Horizontal HZ = Horizontal DH = Downflow/Horizontal MP = Multiposition, Upflow/Downflow/Horizontal 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	Engineering Rev. Denotes minor change Marketing Digit Denotes major change Cooling Airflow 08 = 800 CFM 16 = 1600 CFM 12 = 1200 CFM 20 = 2000 CFM 14 = 1400 CFM Cabinet Width B = 15.5" Wide J = 22.8" Wide F = 19.1" Wide L = 24.5" Wide Input (Nominal MBTUH)

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