

Performance 90 Single Stage

FLEXIBILITY

- Direct Vent ONLY (2 pipe only)
- 40" high with narrower cabinets, for more flexibility in tight locations
- Factory shipped for natural gas, with Propane Gas conversion kits available
- Four position - upflow/downflow/horizontal installation
- Vent pipe can be run horizontally or vertically
- Internal condensate drain system

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

- 90% AFUE efficiency range
- Single stage gas valve operation
- Single stage integrated control
- Multispeed, prelubricated PSC blower motors
- Induced draft blower
- In-shot burners

QUALITY

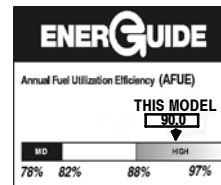
- RPJ III Aluminized steel heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control prevents overheating
- Direct ignition with Silicon Nitride ignitor
- Flame roll-out sensors standard
- Solid doors
- 5 year parts limited warranty



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.



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
N9MP2050B12C	20 Year	40 x 15 ¹ / ₂ x 29	50	90.0	1.5 - 3.0 TON
N9MP2075B12C	20 Year	40 x 15 ¹ / ₂ x 29	75	90.0	1.5 - 3.0 TON
N9MP2080F16C	20 Year	40 x 19 ¹ / ₈ x 29	80	90.0	2.5 - 4.0 TON
N9MP2100F14C	20 Year	40 x 19 ¹ / ₈ x 29	100	90.0	2 - 3.5 TON
N9MP2100J20C	20 Year	40 x 22 ³ / ₄ x 29	100	90.0	3.5 - 5.0 TON
N9MP2125J20C	20 Year	40 x 22 ³ / ₄ x 29	125	90.0	3.5 - 5.0 TON

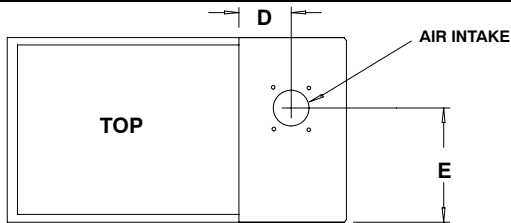
* 20 YEAR LIMITED WARRANTY.

FURNACE SPECIFICATIONS

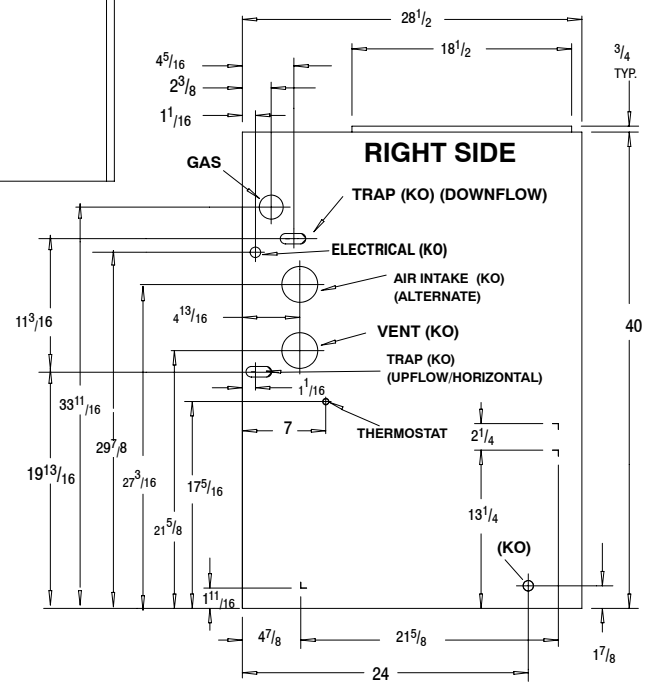
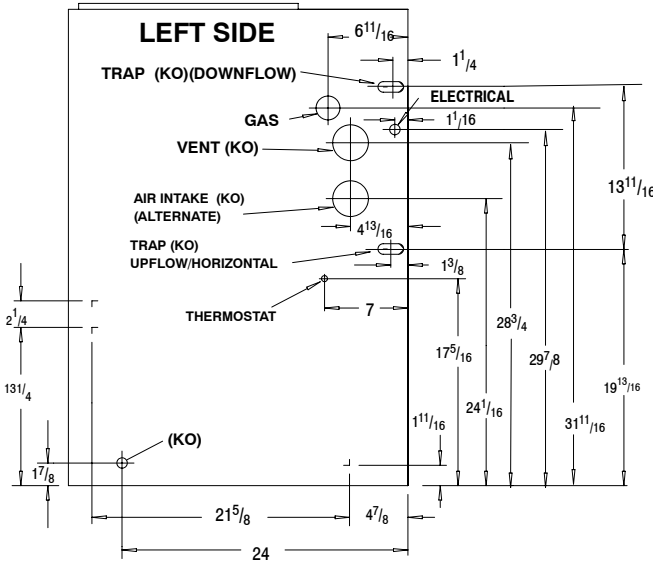
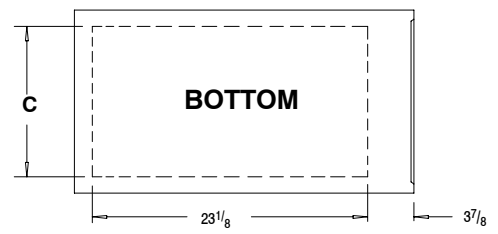
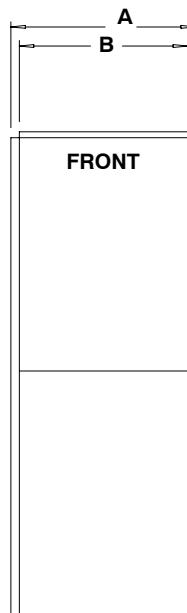
Model Number	NATURAL GAS	N9MP2050B12	N9MP2075B12	N9MP2080F16	N9MP2100F14	N9MP2100J20	N9MP2125J20
INPUT (btuh)		50,000	75,000	80,000	100,000	100,000	125,000
HTG. CAP. (btuh)		45,500	67,500	72,000	90,000	90,000	113,125
AFUE % (ICS)		90.0	90.0	90.0	90.0	90.0	90.0
ALTERNATE INPUT BTUH		40,000	60,000	NA	80,000	80,000	100,000
ALTERNATE OUTPUT BTUH		36,000	54,000	NA	72,000	72,000	90,500
TEMP. RISE DEGREES (°F/°C)		35-65/19-46	40-70/22-38	35-65/19-46	40-70/22-38	40-70/22-38	40-70/22-38
VOLTS/HZ/PH		115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
MIN./MAX. VOLTAGE		104/127	104/127	104/127	104/127	104/127	104/127
RATING PLATE AMPS.		12.9	10.1	12.9	10.1	14.4	15.0
TRANSFORMER (V.A.)		40	40	40	40	40	40
GAS PIPE SIZE (IN.)		1/2	1/2	1/2	1/2	1/2	1/2
VENT SIZE [^]		2" or 3" OD	2" or 3" OD	2" or 3" OD	3" OD	3" OD	3" OD
COOLING CAP.		3.0	3.0	4.0	3.5	5.0	5.0
HIGH ALTITUDE PRESSURE SWITCH		1013803	1013803	1013812	1013803	1013803	1013157
FILTER SIZE (IN.) (required)		16X25X1	16X25X1	16X25X1	16X25X1	16X25X1(2)	16X25X1(2)
DIMENSIONS (in.) HEIGHT X WIDTH X DEPTH		40 X 15 ¹ / ₂ X 29	40 X 15 ¹ / ₂ X 29	40 X 19 ¹ / ₈ X 29	40 X 19 ¹ / ₈ X 29	40 X 22 ³ / ₄ X 29	40 X 22 ³ / ₄ X 29
WEIGHT (Lbs.)		139	140	140	160	180	185

[^] Vent size may vary depending on length, number of elbows, standard vent or direct vent. See Installation Instructions.

DIMENSIONS



Cabinet to Combustible Clearances						
TOP	BOT.	RH	LH	BACK	FRNT	FLUE
1"	0"	0"	0"	0"	3"	0"



Unit Capacity	Cabinet		Bottom	Top	
	A	B	C	D	E
N9MP2050B12	15 ¹ / ₂	14	12 ⁵ / ₈	4 ¹ / ₂	7 ³ / ₄
N9MP2075B12	15 ¹ / ₂	14	12 ⁵ / ₈	4 ¹ / ₂	7 ³ / ₄
N9MP2080F16	19 ¹ / ₈	17 ⁵ / ₈	14 ³ / ₄	4 ¹ / ₂	9 ¹ / ₂
N9MP2100F14	19 ¹ / ₈	17 ⁵ / ₈	14 ³ / ₄	4 ¹ / ₂	9 ¹ / ₂
N9MP2100J20	22 ³ / ₄	21 ¹ / ₄	18 ³ / ₄	4 ¹ / ₂	11 ³ / ₈
N9MP2125J20	22 ³ / ₄	21 ¹ / ₄	18 ³ / ₄	4 ¹ / ₂	11 ³ / ₈

ALL DIMENSIONS IN INCHES
1 in = 25.4 mm

KO = Knockout

25-23-36A

BLOWER PERFORMANCE

Model Number	NATURAL GAS	N9MP2050B12 (1)(5)	N9MP2075B12 (1)(5)	N9MP2080F16 (1)(5)	N9MP2100F14 (1)(5)	N9MP2100J20 (2)(3)(5)	N9MP2125J20 (2)(4)(5)
BLOWER SIZE INCHES (DIA. x WIDTH)		11-8	11-8	11-10	11-10	11-10	11-10
MOTOR H.P. (TYPE)		1/2 PSC	1/2 PSC	1/2 PSC	1/2 PSC	3/4 PSC	3/4 PSC
MOTOR SPEEDS		4	4	4	4	4	4

AIRFLOW DATA

ESP in wc	Filter Type	N9MP2050B12	N9MP2075B12	N9MP2080F16	N9MP2100F14	N9MP2100J20	N9MP2125J20
.10	LOW	826	706	823	700	1682	1720
	MEDIUM LOW	1083	917	1109	912	1870	1910
	MEDIUM HIGH	1301	1163	1527	1209	2081	2127
	HIGH	1408	1368	1850	1550	2263	2315
.20	LOW	804	677	795	660	1654	1686
	MEDIUM LOW	1050	875	1087	884	1826	1881
	MEDIUM HIGH	1242	1120	1482	1171	2031	2087
	HIGH	1347	1319	1791	1492	2193	2268
.30	LOW	770	636	747	616	1597	1644
	MEDIUM LOW	1028	840	1056	843	1775	1833
	MEDIUM HIGH	1195	1076	1426	1139	1963	2024
	HIGH	1295	1263	1720	1434	2165	2201
.40	LOW	735	595	677	575	1547	1600
	MEDIUM LOW	985	812	1016	790	1719	1777
	MEDIUM HIGH	1153	1031	1382	1088	1899	1961
	HIGH	1237	1202	1648	1378	2056	2131
.50	LOW	698	546	617	528	1498	1533
	MEDIUM LOW	952	766	970	735	1653	1720
	MEDIUM HIGH	1093	987	1317	1040	1825	1891
	HIGH	1183	1148	1575	1317	1978	2029
.60	LOW	657	490	544	472	1428	1494
	MEDIUM LOW	909	702	854	677	1583	1647
	MEDIUM HIGH	1040	889	1245	979	1737	1804
	HIGH	1118	1077	1485	1247	1854	1948
.70	LOW	---	---	---	---	1355	1413
	MEDIUM LOW	863	630	763	608	1503	1571
	MEDIUM HIGH	935	821	1154	909	1650	1708
	HIGH	1053	989	1401	1161	1757	1820
.80	LOW	---	---	---	---	1267	1306
	MEDIUM LOW	812	550	652	528	1392	1470
	MEDIUM HIGH	865	750	1043	827	1548	1604
	HIGH	976	914	1284	1058	1644	1730
.90	LOW	---	---	---	---	---	---
	MEDIUM LOW	---	462	---	---	1266	1349
	MEDIUM HIGH	802	676	905	733	1428	1484
	HIGH	887	833	1161	932	1515	1614
1.00	LOW	---	---	---	---	---	---
	MEDIUM LOW	---	---	---	---	---	---
	MEDIUM HIGH	720	601	737	624	---	1328
	HIGH	787	747	1028	778	1351	1430

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

MAX CFM's for Factory Washable Filters	
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.

ACCESSORIES		
Model Number	Description	Used With Models
NAHA004WK	Twining Kit - Allows operation of two identical-size model furnaces.	All N9MP2 Furnaces
NAHA001NG (1172960**)	Gas Conversion Kits - Propane to natural gas conversion kit. Allows field conversion to natural gas.	All N9MP2 Models
NAHA001LP (1172958**)	Gas Conversion Kits - Natural gas to Propane conversion kit. Allows field conversion to Propane gas. Includes Propane Pressure Switch.	All N9MP2 Models
NAHA001AL	Alternate Input Kit (Nat Gas). Derates input by 20%	All N9MP2 Models
NAHA002AL	Alternate Input Kit (Propane Gas). Derates input by 20%	All N9MP2 Models
NAHA001FF	Filter Kits - External filter frame. 16" x 25"	Side Return (All Furnaces) Bottom Return (All "F" 19 ¹ / ₈ " Furnaces under 1600 CFM)
NAHA001FP	External filter frame. 16" x 25" (Bulk Pack Kit - Qty 10)	
NAHA002FF	Filter Kits - Bottom return filter frame kit 20" x 25"	(All "J" 22 ³ / ₄ " Furnaces)
NAHA002FP	Bottom return filter frame kit 20" x 25" (Bulk Pack Kit - Qty 10)	
NAHA003FF	Filter Kits - Bottom or side return filter frame kit 14" x 25".	(All "B" 15 ¹ / ₂ " Furnaces)
NAHA003FP	Bottom or side return filter frame kit 14" x 25" (Bulk Pack Kit - Qty 10)	
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)
NAHA001NK (612833**)	Condensate neutralizer kit for condensing gas furnaces	ALL 90+ FURNACES IF REQUIRED
NAHH001SB	Combustible Floor Subbase - Subbase Furnace ONLY: All 15 ¹ / ₂ " wide furnace models	N9MP2050/075
NAHH002SB	Combustible Floor Subbase - Subbase Furnace ONLY: All 19 ¹ / ₄ " wide furnace models	N9MP2080/100F
NAHH003SB	Combustible Floor Subbase - Subbase Furnace ONLY: All 22 ³ / ₄ " wide furnace models	N9MP2100J, N9MP2125
NAHH004SB	Subbase Furnace w/15 ¹ / ₂ " cased coil	N9MP2050/075 Counterflow furnace w/15 ¹ / ₂ " cased coil
NAHH005SB	Subbase Furnace w/19 ¹ / ₄ " cased coil	N9MP2080/100F Counterflow furnace w/19 ¹ / ₄ " cased coil
NAHH006SB	Subbase Furnace w/22 ³ / ₄ " cased coil	N9MP2100J, N9MP2125 Counterflow furnace w/22 ³ / ₄ " cased coil
NAHA001CV (1011129**)	3" Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).	N9MP2050/075/080 (65' & (4) 90°elbows) N9MP2100 (35' or 65' & (4) 90°elbows) N9MP2125 (35' & (4) 90°elbows)
NAHA002CV	2" Concentric vent kit allows - single wall penetration for 2 pipe direct vent applications (90+).	N9MP2050/080 (35' & (4) 90°elbows) N9MP2075 (20' & (2) or 35' & (4) 90°elbows)
NAHA001CA	Coil Adapter for Downflow Furnaces	All Downflow Models
1013803**	High Altitude Pressure Switch Kit (1 Pressure Switch)	N9MP2050, 075 & 100
1013812**	High Altitude Pressure Switch Kit (1 Pressure Switch)	N9MP2080
1013157**	High Altitude Pressure Switch Kit (2 Pressure Switches)	N9MP2125
NAHA001LV	Long Vent Kit	N9MP2075B12, N9MP2100F14
NAHA002LV	Long Vent Kit	N9MP2100J20
NAHA003LV	High Altitude Long Vent Kit	N9MP2075B12, N9MP2100F14/J20
NAHA002WL	To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed	N9MP2

** Must be ordered from Service Parts

MODEL NUMBER IDENTIFICATION GUIDE									
Brand Identifier N = Non-Brand Specific (Generic)	N	9	M P	2	0 7 5	F	1 2	C	# Engineering Rev. Denotes major change
Model 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, Up/Down/Horizontal									Cooling Airflow 08 = 800 CFM 12 = 1200 CFM 14 = 1400 CFM 16 = 1600 CFM 20 = 2000 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)

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