

Premier 90 Two-Stage PSC Furnace

FLEXIBILITY

- Dual Certified venting (1 or 2 pipe), Direct Vent furnace
- 40" (1016mm) high with wider cabinets, for ease of installation
- 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
- Thermal lined, one piece steel cabinet for noise reduction
- Insulated blower compartment
- 24 and 115 VAC humidifier terminal
- Electronic air cleaner terminal

EFFICIENCY

- 92.1% AFUE efficiency range
- Two stage gas valve operation
- Two stage integrated control
- Multispeed, prelubricated PSC blower motors
- Induced draft blower
- In-shot burners

QUALITY

- RPJ III Stainless steel heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control prevents overheating
- Direct ignition with Silicon Nitride ignition
- Flame roll-out sensors standard
- External filter rack with permanent filters
- Solid doors

WARRANTY *

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

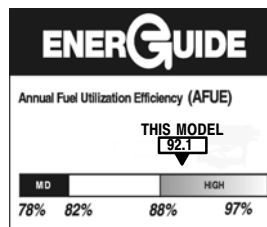
* Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.



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.



As an Energy Star® Partner, International Comfort Products has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Ask your contractor for details or visit www.energystar.gov



UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)							
Model Number	Input (MBTUH)	Efficiency AFUE	Cooling Capacity @ .5 in wc (125 Pa)	Dimensions H x W x D		Shipping Wt.	
				Inches	Millimeters	Lbs	Kg
C9MPT050F12C	50	92.1	1.5 – 3.0 TON	40 x 19 ¹ / ₈ x 29	1016 x 486 x 737	150	68
C9MPT075F14C	75	92.1	1.5 – 3.5 TON	40 x 19 ¹ / ₈ x 29	1016 x 486 x 737	158	72
C9MPT100J16C	100	92.1	2.5 – 4.0 TON	40 x 22 ³ / ₄ x 29	1016 x 578 x 737	182	83
C9MPT125L20C	125	92.1	3.5 – 5.0 TON	40 x 24 ¹ / ₂ x 29	1016 x 622 x 737	203	92

FURNACE SPECIFICATIONS

Model Number * Denotes Brand (C, H, T)	*9MPT050F12	*9MPT075F14	*9MPT100J16	*9MPT125L20
INPUT HIGH FIRE (BTUH) LOW FIRE (BTUH)	50,000 35,000	75,000 53,000	100,000 70,000	125,000 87,500
HTG. CAP. HIGH FIRE (BTUH) LOW FIRE (BTUH)	46,000 32,000	70,000 49,000	93,000 65,000	117,000 82,000
AFUE % (ICS)	92.1	92.1	92.1	92.1
TEMP. RISE RANGE High Fire (°F/°C) Low Fire (°F/°C)	35-65/19-46 25-55/14-30	40-70/22-39 30-60/17-33	40-70/22-39 30-60/17-33	40-70/22-39 30-60/17-33
VENT SIZE - in(mm) ^	2 or 3 (50.8 or 76.2) OD		3 (76.2) OD	
VOLTS/HZ/PH	115/1/60			
MIN./MAX. VOLTAGE	104/127			
RATING PLATE AMPS	11.8	11.8	11.8	14.0
TRANSFORMER (V.A.)	40			
GAS PIPE SIZE - in(mm)	1/2 (12.7)			
COOLING CAP. (TONS)	3.0	3.5	4.0	5.0
FILTER SIZE - in(mm) (qty)	16 x 25 x 1 (406 x 635 x 25) (1)			16 x 25 x 1 (406 x 635 x 25) (2)
HIGH ALTITUDE PRESSURE SWITCH	1013165	1013165	1013165	1013157
DIMENSIONS W x D x H - in(mm)	19 1/8 x 29 x 40 (1016 x 486 x 737)		40 x 22 3/4 x 29 (1016 x 578 x 737)	40 x 24 1/2 x 29 (1016 x 622 x 737)
WEIGHT Lbs.(Kg.)	150 (68)	158 (72)	182 (83)	203 (92)

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

LEFT SIDE

TRAP (KO) (COUNTERFLOW)
GAS
VENT
AIR INTAKE (KO) (ALTERNATE)
TRAP (KO) UPFLOW/HORIZONTAL
THERMOSTAT

RIGHT SIDE

GAS (KO)
TRAP (KO) (COUNTERFLOW)
ELECTRICAL (KO)
AIR INTAKE (KO) (ALTERNATE)
VENT (KO)
TRAP (KO) UPFLOW/HORIZONTAL
THERMOSTAT

TOP

FRONT

BOTTOM

CO = KnockOut
ALL DIMENSIONS - in(mm)

Cabinet to Combustible Clearances - in(mm)						
TOP	BOT	RH	LH	BACK	FRNT	FLUE
1 (25.4)	0	0	0	0	3(76.2)	0

*30" (762mm) 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.

Unit Capacity	Cabinet		Bottom		Top			
	A	B	C	D	E	F	G	H
*9MPT050F12	19 1/8 (485.8)	17 5/8 (447.7)	2 1/8 (54)	14 3/4 (374.7)	4 3/8 (111.1)	4 1/2 (114.3)	2 1/2 (63.5)	9 1/2 (241.3)
*9MPT080F12	19 1/8 (485.8)	17 5/8 (447.7)	2 1/8 (54)	14 3/4 (374.7)	4 3/8 (111.1)	4 1/2 (114.3)	2 1/2 (63.5)	9 1/2 (241.3)
*9MPT100J20	22 3/4 (577.9)	21 1/4 (539.8)	1 5/16 (49.2)	18 3/4 (476.3)	4 3/8 (111.1)	4 1/2 (114.3)	2 5/8 (66.7)	11 3/8 (288.9)
*9MPT125L20	24 1/2 (622.3)	23 (584.2)	1/16 (11.1)	23 (584.2)	4 3/8 (111.1)	4 1/2 (114.3)	2 1/4 (57.2)	12 1/4 (311.2)

* Denotes Brand

Drawing is representative, but some models may vary

BLOWER PERFORMANCE

Model Number	*9MPT050F12 (1)	*9MPT075F14 (1)	*9MPT100J16 (1)	*9MPT125L20 (2)
BLOWER SIZE DIA. x WIDTH - 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)
MOTOR H.P. (TYPE)	1/2 PSC	1/2 PSC	1/2 PSC	3/4 PSC
MOTOR SPEEDS	4	4	4	4

AIRFLOW DATA

*9MPT050F12 (1) * Denotes Brand (C, H, T)

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	826	389	1083	511	1301	614	1408	667
0.2	50	804	379	1050	495	1242	586	1347	638
0.3	75	770	363	1028	485	1195	564	1295	611
0.4	100	735	346	985	465	1153	544	1237	583
0.5	125	698	329	952	499	1093	516	1183	558
0.6	150	657	310	909	429	1040	491	1118	528
0.7	175	---	---	863	407	935	441	1053	497
0.8	200	---	---	812	383	865	408	976	461
0.9	225	---	---	---	---	802	378	887	419
1.0	250	---	---	---	---	720	340	787	371

*9MPT100J16 (1) * Denotes Brand (C, H, T)

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	823	388	1109	523	1527	721	1850	873
0.2	50	795	375	1087	513	1482	699	1791	845
0.3	75	747	353	1056	498	1426	673	1720	812
0.4	100	677	319	1016	479	1382	652	1648	778
0.5	125	617	591	970	458	1317	622	1575	743
0.6	150	544	257	857	403	1245	588	1485	701
0.7	175	---	---	763	360	1154	545	1401	661
0.8	200	---	---	652	308	1043	492	1284	606
0.9	225	---	---	---	---	905	427	1161	548
1.0	250	---	---	---	---	737	348	1028	485

*9MPT075F14 (1) * Denotes Brand (C, H, T)

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	395	328	1025	484	1455	687	1724	814
0.2	50	374	318	1001	472	1410	655	1662	784
0.3	75	653	308	951	449	1365	644	1601	756
0.4	100	631	298	921	435	1309	3118	1530	722
0.5	125	609	287	891	420	1252	591	1460	689
0.6	150	569	268	845	399	1187	560	1380	651
0.7	175	529	250	799	377	1122	529	1300	613
0.8	200	490	231	730	345	1030	486	1190	562
0.9	225	---	---	680	321	950	448	1080	510
1.0	250	---	---	---	---	831	392	969	457

*9MPT125L20 (2) * Denotes Brand (C, H, T)

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	1720	812	1910	901	2127	1004	2315	1092
0.2	50	1686	796	1881	888	2087	985	2268	1070
0.3	75	1644	776	1833	912	2024	955	2201	1039
0.4	100	1600	755	1777	839	1961	925	2131	1006
0.5	125	1533	723	1720	812	1891	892	2029	958
0.6	150	1494	705	1647	777	1804	851	1948	919
0.7	175	1413	667	1571	741	1708	806	1820	859
0.8	200	1306	616	1470	694	1604	757	1730	816
0.9	225	---	---	1349	637	1484	700	1614	762
1.0	250	---	---	---	---	1328	627	1430	675

NOTE: (1) Data based on Bottom Only or One Side return.
 (2) Data based on Both Sides or Bottom plus One Side

NOTE: Disposable filters are typically rated at 300 FPM (1.5 M/s). These filters only allow half the airflow when compared to 600 FPM (3.0 M/s) filters.

MAX CFM (L/s) for Factory Washable Filters		
Filter Size (in/mm)	CFM	L/s
14" X 25" (356 x 635)	1400	661
16" X 25" (406 x 635)	1600	755
20" X 25" (508 x 635)	2000	944
24" X 25" (610 x 635)	2500	1180
Max CFM (L/s) based on 600 FPM (3.0 M/s)		

CFM – Cubic feet per minute airflow (M/s – Meters per second) Filter required for each return-air inlet. Airflow performance includes 1" (25.4mm) washable 600 FPM (283 M/s) max filter media.

MODEL NUMBER IDENTIFICATION GUIDE

<p>Brand Identifier * = Brand Specific</p> <p>Model Efficiency 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace</p> <p>Installation Configuration UP = Upflow DN = Downflow UH = Upflow/Horizontal HZ = Horizontal DH = Downflow/Horizontal MP = Multiposition, Upflow/Downflow/Horizontal</p> <p>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</p>	9	MP	T	075	F	14	C	#
								<p>Engineering Rev. Denotes minor change</p> <p>Marketing Digit Denotes major change</p> <p>Cooling Airflow 08 = 800 CFM 12 = 1200 CFM 14 = 1400 CFM 16 = 1600 CFM 20 = 2000 CFM</p> <p>Cabinet Width B = 15.5" Wide F = 19.1" Wide J = 22.8" Wide L = 24.5" Wide</p>
								Input (Nominal MBTUH)

* Denotes Brand (C, H, T)

ACCESSORIES

Model Number	Description	Used With Models
NAHA002NG 1172961**	Gas Conversion Kits (Two-Stage) – Propane to natural gas conversion kit. Allows field conversion to natural gas.	*9MPT
NAHA002LP 1172959**	Gas Conversion Kits (Two-Stage) – Natural gas to Propane conversion Kit. Allows field conversion to Propane gas.	*9MPT
NAHA004WK	Twinning kit. Allows operation of two identical-size model furnaces.	ALL *9MPT FURNACES
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	
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)
NAHA001NK 612833**	Condensate neutralizer kit – for condensing gas furnaces	All *9MPT Furnaces If Required
NAHL050VBB	Blower Upgrade Kit for C 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)	*9MPT050
NAHL075VBB		*9MPT075
NAHL100VBB		*9MPT100
NAHL125VBB		*9MPT125
NAHH002SB	Combustible Floor Subbase – Furnace ONLY: All 19 ¹ / ₄ " wide furnace models	*9MPT050/075
NAHH003SB	Combustible Floor Subbase – Furnace ONLY: All 22 ³ / ₄ " wide furnace models	*9MPT100
NAHH010SB	Combustible Floor Subbase – Furnace ONLY: All 24 ¹ / ₂ " wide furnace models	*9MPT125
NAHH005SB	Subbase – Furnace w/ 19 ¹ / ₄ " cased coil	*9MPT050/075 Counterflow furnace w/19 ¹ / ₄ " cased coil
NAHH006SB	Subbase – Furnace w/ 22 ³ / ₄ " cased coil	*9MPT100 Counterflow furnace w/ 22 ³ / ₄ " cased coil
NAHH009SB	Subbase – Furnace w/ 24 ¹ / ₂ " cased coil	*9MPT125
1013165**	High Pressure Switch Kit	*9MPT050, 075 & 100
1013157**	High Pressure Switch Kit	*9MPT125
NAHA001CV 1011129**	3" (76.2mm) Concentric vent kit – allows single wall penetration for 2 pipe direct vent applications (90+).	*9MPT100/125
NAHA002CV	2" (50.8mm) Concentric vent kit allows – single wall penetration for 2 pipe direct vent applications (90+).	*9MPT050/075
NAHA001CA	Coil Adapter for Downflow Furnaces	All Downflow Models
NAHA002WL	To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed	*9MPT

* Denotes Brand (C, H, T)

** Must be ordered from Service Parts

International Comfort Products, LLC
Lewisburg, TN 37091 U.S.A.
www.GoComfortmaker.com

Specifications subject to change without notice.