MAINLINE®
Reliably Comfortable.™

Performance® Gas Furnaces

MP951W Ultra Low NOx

95% A.F.U.E.†
Heating Stages: Single Stage
Motor Type: Constant CFM
Input Rates: 40 to 100 kBTU [12.31 to 27.84 kW]
Configuration Options: Upflow Horizontal

Manufactured for
Mainline®
HVACmainline.com

† A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.

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Features and Benefits

- **Ultra Low Greenhouse Gas Emissions:** Certified unit meets 14ng/j NOx emission standard – reducing NOx emissions by 65%
- **Energy Efficiency:** ENERGY STAR® certified, featuring 95% AFUE across all model sizes
- **Diagnostics:** With the BluArch™ Contractor App & Bluetooth®[1] technology makes monitoring, troubleshooting and repairing the product easier than ever before
- **Dip Switch Free Installation Commissioning via Bluetooth® Technology:** Seamless final install step without DIP switch configuration using the BluArch™ Contractor App
- **Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **Water Management System:** Patented block drain sensor that automatically shuts off the furnace when the drain is blocked, and also alerts the contractor via diagnostic code
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **This unit is certified** for use in elevations up to 10,000 feet

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Gas Furnaces

MP	95	1	W	040	3	A	17	UH	U	B	A	S
Brand	**Furnace Efficiency**	**Stages of Heating**	**Motor Type**	**Heating Input**	**AC Max. Capacity**	**Major Series**	**Width**	**Position**	**NOx**	**Controls**	**Minor Series**	**Option Code**
MP - Mainline Performance	95 - 95% AFUE	1 - Single Stage	W - ECM Variable Speed	040 - 40K BTUH [12.31 kW] 060 - 60K BTUH [16.41 kW] 070 - 70K BTUH [20.51 kW] 100 - 100K BTUH [27.84 kW]	3 - 3 ton drive 5 - 5 ton drive	A - 1st Design Series	17 - 17.5" Width 21 - 21" Width	UH - Upflow Horizontal	U - Ultra Low NOx	B - Communicating, Bluetooth®	A - 1st Series	S - Standard Grade

[ ] Designates Metric Conversions

AVAILABLE MODELS
MP951W0403A17UHUBAS
MP951W0603A17UHUBAS
MP951W0705A21UHUBAS
MP951W1005A21UHUBAS

STANDARD EQUIPMENT	
100% Safety Lock Out	Humidifier Connections
2 Stage Cooling	Limit Controls
29-4C Stainless Steel Secondary Heat Exchanger	Low Speed Continuous Fan Option
3 Way Multi Poise Design Upflow/Horizontal	Manual Shut-Off Valve
Blocked Drain Sensor	On Demand Dehumidification
Blower Compartment Door Safety Switch	One-Hour Automatic Retry
Bluetooth® Set Up, Diagnostics & Marked Hoses for Ease of Installation	Outdoor Air Temperature Connection
Complete Assembly and Wiring	Power and Self-Test Diagnostics
Condensate Switch Connection	Pressure Switches
Constant CFM Variable Speed CT Motor	Redundant Main Gas Control
Cool Fan Off Delay	Return Air Temp Sensor Connection
Direct Drive	Stainless Steel Primary Heat Exchanger
Electronic Air Cleaner Connections	Suction Pressure/Evap. Temperature Connection
EXV Connection	Suction Temperature Connection
Flame Sense Current Diagnostics	Supply Air Temperature Connection
Fully Insulated Heat Exchanger Cabinet	Transformer
Furnace Diagnostics-7 Segment LED All Units	Variable Speed 3 Phase Induced Draft Motor

WARNING
THIS FURNACE IS NOT APPROVED
OR RECOMMENDED
FOR USE IN MOBILE HOMES

Physical Data and Specifications
U.S. and Canadian Models

MODEL NUMBERS MP951W 1 STG VS-CT UP/HZ SERIES	MP951W0403A17UHUBAS	MP951W0603A17UHUBAS	MP951W0705A21UHUBAS	MP951W1005A21UHUBAS
INPUT-BTU/HR [kW]	42,000 [12.31]	56,000 [16.41]	70,000 [20.51]	95,000 [27.84]
HEATING CAPACITY BTU/HR [kW] ①	39,900 [11.69]	53,200 [15.59]	66,500 [19.49]	90,250 [26.45]
HEAT EXT. STATIC PRESSURE [kPA]	.10 [.02]	.12 [.03]	.15 [.04]	.20 [.05]
BLOWER (D X W) [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. [W] TYPE	1/2 [373] VS-CT(ECM)	3/4 [560] VS-CT(ECM)	1 [746] VS-CT(ECM)	1 [746] VS-CT(ECM)
MIN. CIRCUIT AMPACITY	9	13	17	17
MIN. OVERLOAD PROTECTION DEVICE	15	20	20	20
MAX. OVERLOAD PROTECTION DEVICE	15	20	25	25
MOTOR FULL LOAD AMPS	6.1	9.6	12.4	12.4
HEATING CFM [L/s]	825 [389]	1050 [496]	1210 [571]	1650 [779]
MAX. COOLING CFM [L/s]	1240 [585]	1240 [585]	1980 [934]	1980 [934]
MIN. COOLING CFM [L/s]	300 [142]	300 [142]	500 [236]	500 [236]
FAN CFM [L/s]	600 [283]	800 [378]	1000 [472]	1000 [472]
MAX. E.S.P. (IN. W.C.) [kPA]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]
TEMPERATURE RISE RANGE °F [°C]	30 - 60 [17 - 33]	35-65 [19.4-36.1]	35-65 [19.4-36.1]	40 - 70 [22 - 39]
APPROX. SHIPPING WEIGHT (LBS.) [kg]	143 [65]	143.5 [65]	168.5 [76]	170.5 [77]
AFUE ②	95.00%	95.00%	95.00%	95.00%

NOTES: All models are 115V, 60HZ, 1 Ph. Gas connection size for all models is 1/2" [13 mm] N.P.T.

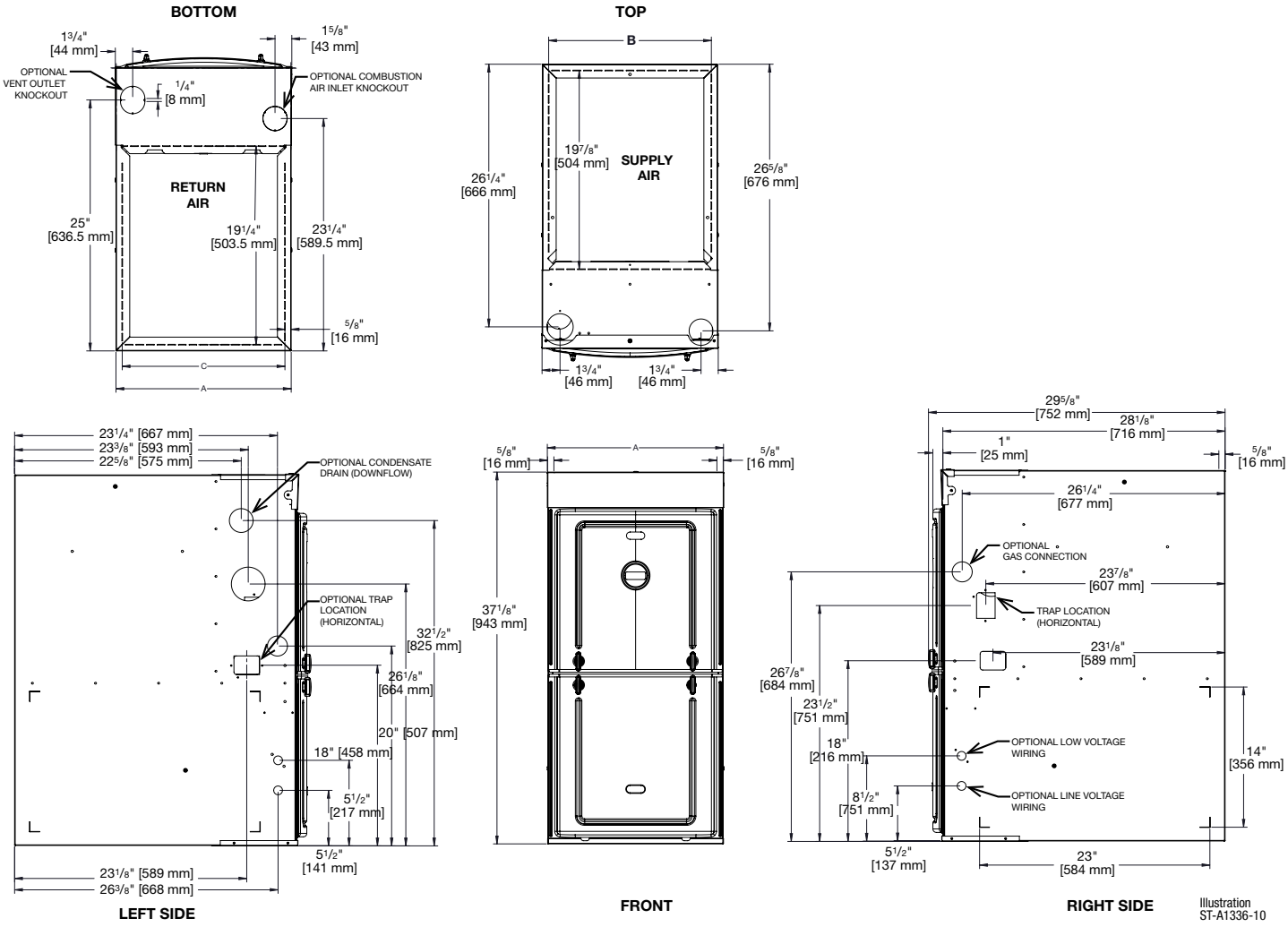
① This model does not require any component changes at elevations 0-5,500 ft. above sea level. At elevations higher than 2,000 ft. these models do require a 2% de-rate for every 1,000 ft. of elevation above sea level.

② In accordance with D.O.E test procedures.

This furnace meets air district requirements of 14 ng/J NOx emissions limit, and thus is eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com in SCAQMD.

[ ] Designates Metric Conversions

Multi-position Application



Unit Dimensions (Clearance to Combustibles)

MODEL MP951W ULN	MINIMUM CLEARANCE (IN.) [mm]						FLANGE DIMENSIONS		
	LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	A	B	C
040	0	0	0	1 [25]	2 [51]	0	17 1/2 [445]	16 17/64 [413]	16 13/64 [412]
060	0	0	0	1 [25]	2 [51]	0	17 1/2 [445]	16 17/64 [413]	16 13/64 [412]
070	0	0	0	1 [25]	2 [51]	0	21 [533]	19 49/64 [502]	19 45/64 [500]
100	0	0	0	1 [25]	2 [51]	0	21 [533]	19 49/64 [502]	19 45/64 [500]

Furnaces must be vented in accordance with the National Fuel Gas Code, ANSI Z223.1 and in accordance with local codes.

[ ] Designates Metric Conversions

Blower Performance Data

TARGET GAS HEATING AIRFLOWS					
		MP951W0403 A17UHUBAS	**MP951W0603 A17UHUBAS**	**MP951W0705 A21UHUBAS**	**MP951W1005 A21UHUBAS**
Factory High Heating CFM [L/s]	Factory High Heating CFM [L/s]	825 [389]	1050 [496]	1210 [571]	1650 [779]
High Heat Side Return CFM [L/s]	High Heat Side Return CFM [L/s]	891 [421]	1134 [535]	1265 [597]	1782 [841]
High Heat Approx. ±2°F CFM	High Heat Approx. ±2°F CFM	797 [376]	1014 [479]	1168 [551]	1593 [752]
High Heat Approx. ±4°F CFM	High Heat Approx. ±4°F CFM	772 [364]	982 [463]	1132 [534]	1543 [728]

[ ] Designates Metric Conversions

Vent Termination Kits:

RXGY-E02: Vertical/Horizontal Concentric Vent Termination Kit 2" Pipe (US Only)

RXGY-E02A: Vertical/Horizontal Concentric Vent Termination Kit 2" Pipe (US & Canadian)

RXGY-E03: Vertical/Horizontal Concentric Vent Termination Kit 3" Pipe (US Only)

RXGY-E03A: Vertical/Horizontal Concentric Vent Termination Kit 3" Pipe (US & Canadian)

RXGY-G02: Direct Vent Furnace Side Wall Vent 2" or 3" (US Only)

RXGY-D05: Combustion Air Drain Kit 2"

RXGY-D06: Combustion Air Drain Kit 3"

NEUTRALIZER KIT: RXGY-A01
(Replacement Cartridge 54-22120-01)

EXTERNAL BOTTOM FILTER (UPFLOW/HORIZONTAL) RACK: RXGF-CB

EXTERNAL SIDE (UPFLOW) FILTER RACK: RXGF-CD

EXTERNAL (DOWNFLOW) FILTER RACK: RXGF-CC

CONDENSATE PUMP KIT: PROSTOCK & 1PCB151TUL

COMBUSTIBLE FLOOR BASE: RXGC-B17
RXGC-B21

FILTER RACK FILTER SIZES* INCHES [mm]			
MODEL	**RXGF-CB (UPFLOW/ HORIZONTAL)**	**RXGF-CD (UPFLOW)**	**RXGF-CC (DOWNFLOW)**
MP951W(-)040	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [356 x 508]
MP951W(-)060	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [356 x 508]
MP951W(-)070	19 1/4 x 25 [489 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [356 x 508]
MP951W(-)100	19 1/4 x 25 [489 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [356 x 508]

Indoor Coil Casings

MODEL NUMBER
RXBC-D17A1
RXBC-D21A1
RXBC-D21B1
RXBC-D24A1

For High Altitudes:

PRESSURE SWITCH ASSEMBLY: 42-109148-05

The 100K BTU furnace will require the installation of 42-109148-05 when operating in elevations above 8,000 ft. Please read installation instructions for more details regarding the installation of the pressure switch assembly.

[ ] Designates Metric Conversions

MAINLINE®
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GENERAL TERMS OF LIMITED WARRANTY*

Mainline® will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Parts ..... Five (5) Years
Heat Exchanger ..... Fifteen (15) Years

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

"In keeping with its policy of continuous progress and product improvement, Mainline reserves the right to make changes without notice."

www.MainlineCollection.com

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