MAINLINE®
Reliably Comfortable.™

Performance® Gas Furnaces

MP962W

96% A.F.U.E.†
Heating Stages: Two-Stage
Motor Type: Constant CFM
Input Rates: 40 to 115 kBTU [11.7 to 33.7 kW]
Configuration Options: 4-Way Multi-Position

Manufactured for
Mainline®
HVACmainline.com

ENERGY STAR[1]

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

[1]*Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR®. Ask your Contractor for details or visit www.energystar.gov.*

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Features and Benefits

- **Energy Efficiency:** ENERGY STAR® certified, featuring 96% 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:** Exclusive patented block drain sensor that automatically shuts off the furnace when the drain is blocked and alerts the contractor via diagnostic code
- **Two-Stage Heating:** Furnace operation mainly stays at low capacity around 60-65%, but will switch to high capacity to deliver stable heat distribution
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation[2]:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available

[1]The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Rheem® is under license. Other trademarks and trade names are those of their respective owners. [2]Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

Gas Furnaces

MP	96	2	W	040	3	A	17	M4	S	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	96 - 96% AFUE	2 - Two-Stage	W - ECM Variable Speed	040 - 40,000 [11.7 kW] 060 - 60,000 [17.6 kW] 070 - 70,000 [20.5 kW] 075 - 75,000 [22.0 kW] 085 - 85,000 [24.9 kW] 100 - 100,000 [29.3 kW] 115 - 115,000 [33.7 kW]	3 - 3 ton drive 5 - 5 ton drive	A - 1st Design Series	17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width	M4 - Multi-4 Way	S - Standard	B - Communicating, Bluetooth®	A - 1st Series	S - Standard Grade

[ ] Designates Metric Conversions

AVAILABLE MODELS
MP962W0403A17M4SBAS
MP962W0603A17M4SBAS
MP962W0703A17M4SBAS
MP962W0705A21M4SBAS
MP962W0855A21M4SBAS
MP962W1005A21M4SBAS
MP962W1155A24M4SBAS

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

STANDARD EQUIPMENT	
Auxiliary Input Connection[1]	Electronic On/Off Blower Time Control
Condensate Switch Connection	Humidifier Connections
Outdoor Air Temperature Sensor Connection	Humidistat Terminal Connection
Supply Air Sensor Connection	Limit Controls
100% Safety Lock Out	Low Speed Continuous Fan Option
2 Stage Induced Draft Motor	Manual Shut-Off Valve
29-4C Stainless Steel Secondary Heat Exchanger Design	Marked Condensate Hoses
Adjustable Cool Fan Off Delay	On Demand Dehumidifier Connnection
Aluminized Steel Primary Heat Exchanger Design	One Hour Automatic Retry
Blocked Drain Sensor	Power And Self Test Diagnostics
Blower Compartment Door Safety Switch	Pressure Switches
Bluetooth® Setup And Diagnostics	PWM Controlled Constant Torque Electrically Commutated Blower Motor
Completely Assembled And Wired	Redundant 2 Stage Main Gas Control
Direct Drive Motor	Two Plus Stage Cooling Thermostat Connection[2]
Thermostat Connections	Fully Insulated Heat Exchanger Cabinet
Electronic Air Cleaner Connections	Two Speed Heating

[1]When used with Smart Thermostat only
[2]When connected to three-speed or modulating AC/HP product

Physical Data and Specifications
U.S. and Canadian Models

MODEL NUMBERS	MP962W0403 A17M4SBAS	MP962W0603 A17M4SBAS	MP962W0703 A17M4SBAS	MP962W0705 A21M4SBAS	MP962W0855 A21M4SBAS	MP962W1005 A21M4SBAS	MP962W1155 A24M4SBAS
HIGH FIRE INPUT BTU/HR [kW] ①	42,000 [12.31]	56,000 [16.41]	70,000 [20.50]	70,000 [20.50]	84,000 [24.61]	98,000 [28.72]	112,000 [32.82]
LOW FIRE INPUT	29,400 [8.61]	39,200 [11.49]	49,000 [14.36]	49,000 [14.36]	58,800 [17.23]	68,600 [20.11]	78,400 [23.00]
HEATING CAPACITY BTU/HR [kW]	41,000 [12.02]	55,000 [16.12]	68,000 [19.93]	68,000 [19.93]	82,000 [24.03]	95,000 [27.84]	109,000 [31.94]
HIGH ALTITUDE OUTPUT 10% DERATE [kW] ②	36,288 [10.64]	48,384 [14.18]	60,480 [17.72]	60,480 [17.72]	72,756 [21.27]	84,672 [24.81]	96,768 [28.36]
BLOWER (D x W) [mm]	11 x 7 [279 x 178]	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 11 [279 x 279]
MOTOR H.P. [W]– TYPE	1/2 [373] VS-CT(ECM)	1/2 [373] VS-CT(ECM)	1/2 [373] VS-CT(ECM)	1 [746] VS-CT(ECM)	1 [746] VS-CT(ECM)	1 [746] VS-CT(ECM)	1 [746] VS-CT(ECM)
MIN. CIRCUIT AMPACITY	8	8	8	15	15	15	15
MIN. OVERLOAD PROTECTION DEVICE	15	15	15	20	20	20	20
MAX. OVERLOAD PROTECTION DEVICE	15	15	15	20	20	20	20
MOTOR FULL LOAD AMPS	5.8	5.8	5.8	11.1	11.1	11.1	11.1
MAXIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]
HEATING HI CFM [L/s]	990 [468]	1100 [520]	1200 [566]	1375 [649]	1380 [651]	1440 [680]	1650 [779]
HEATING LO CFM [L/s]	870 [411]	990 [467]	1030 [486]	1200 [566]	1230 [580]	1250 [590]	1400 [661]
MAX Cooling CFM [L/s]	1240 [585]	1240 [585]	1240 [585]	1980 [934]	1980 [934]	1980 [934]	1980 [934]
MIN Cooling CFM [L/s]	300 [142]	300 [142]	300 [142]	500 [236]	500 [236]	500 [236]	500 [236]
FAN CFM [L/s]	600 [283]	600 [283]	600 [283]	1000 [472]	1000 [472]	1000 [472]	1000 [472]
TEMPERATURE RISE-HIGH FIRE RANGE IN DEGREES °F [°C]	20 - 50 [11 - 28]	30 - 60 [17 - 33]	40 - 70 [22 - 39]	30 - 60 [17 - 33]	30 - 60 [17 - 33]	40 - 70 [22 - 39]	45 - 75 [25 - 42]
TEMPERATURE RISE-LOW FIRE RANGE IN DEGREES °F [°C]	15 - 45 [8 - 25]	20 - 50 [11 - 28]	30 - 60 [17 - 33]	20 - 50 [11 - 28]	20 - 50 [11 - 28]	30 - 60 [17 - 33]	35 - 65 [19 - 36]
APPROX. SHIPPING WEIGHT (LBS.) [kg]	123 [56]	128 [58]	133.5 [61]	146.5 [66]	150 [68]	155 [70]	190 [86.2]
AFUE ③	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%

NOTES: All models are 115V, 60HZ, 1 phase. Gas connection size for all models is 1/2" [13 mm] N.P.T.
① Installation instructions for high altitude derate.
② Canadian installations only.
③ In accordance with D.O.E. test procedures.

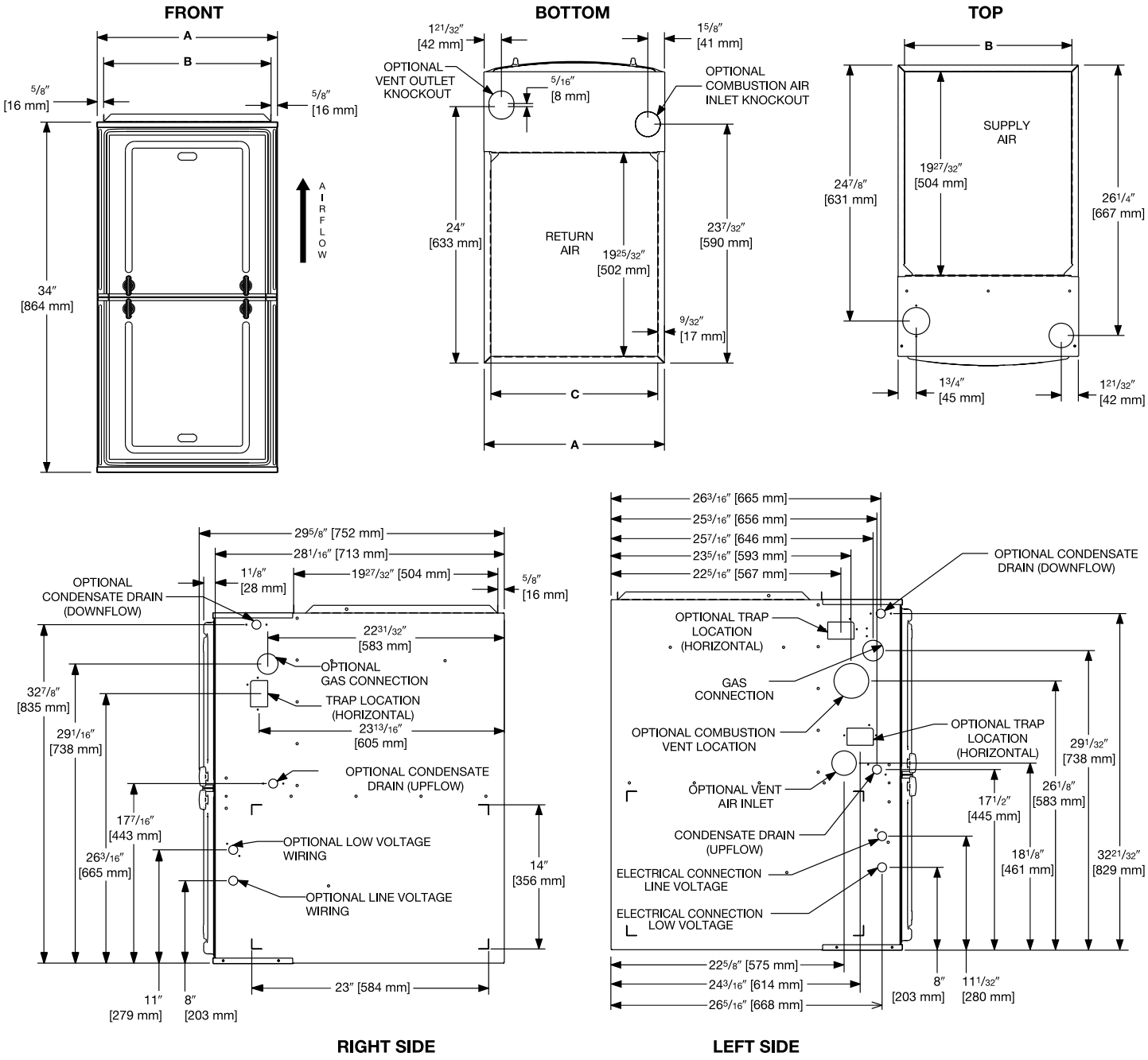
NOTE: Standard model complies with California low NOx requirements up to 40ng/J.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit, and thus is subject to a mitigation fee of up to $450.

This furnace is to be installed for propane firing only in air districts requiring 14 ng/J NOx emission limits. Operating in natural gas mode is in violation of these Rules.

[ ] Designates Metric Conversions

Multi-Position Application



Unit Dimensions (Clearance to Combustibles)

MODEL MP962W	LEFT SIDE	MINIMUM CLEARANCE (IN.) [mm]					FLANGE DIMENSIONS		
		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	17 1/2 [445]	16 17/64 [413]	16 13/64 [412]
070 (wide)	0	0	0	1 [25]	2 [51]	0	21 [533]	19 49/64 [502]	19 45/64 [500]
085	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]
115	0	0	0	1 [25]	2 [51]	0	24 1/2 [662]	23 17/63 [591]	23 13/64 [589]

[ ] Designates Metric Conversions

Blower Performance Data

TARGET GAS HEATING AIRFLOWS							
	MP962W0403 A17M4*BAS	**MP962W0603 A17M4*BAS**	**MP962W0703 A17M4*BAS**	**MP962W0705 A21M4*BAS**	**MP962W0855 A21M4*BAS**	**MP962W1005 A21M4*BAS**	**MP962W1155 A24M4*BAS**
Furnace Lo Heat CFM A (factory)	870 [411]	990 [467]	1030 [486]	1200 [566]	1230 [580]	1250 [590]	1400 [661]
Furnace Lo Heat CFM B (side return)	870 [411]	1070 [505]	1156 [445]	1375 [649]	1370 [647]	1426 [673]	1512 [714]
Furnace Lo Heat CFM C (Approx. +7°F)	783 [370]	872 [412]	942 [445]	1080 [510]	1082 [511]	1162 [549]	1260 [595]
Furnace Lo Heat CFM D (Approx. +12°F)	722 [341]	802 [379]	867 [409]	996 [470]	997 [471]	1070 [505]	1162 [548]
Furnace Hi Heat CFM A (factory)	990 [468]	1100 [520]	1200 [566]	1375 [649]	1380 [651]	1440 [680]	1650 [779]
Furnace Hi Heat CFM B (side return)	990 [468]	1188 [561]	1296 [612]	1550 [732]	1520 [717]	1691 [798]	1800 [850]
Furnace Hi Heat CFM C (Approx. +7°F)	891 [421]	990 [468]	1080 [510]	1170 [553]	1242 [586]	1409 [665]	1485 [701]
Furnace Hi Heat CFM D (Approx. +12°F)	822 [388]	913 [431]	996 [470]	1079 [510]	1146 [541]	1299 [614]	1370 [647]

[ ] 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)

FOSSIL FUEL KIT: RXPF-F01, RXPF-F02 (TVA)

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

EXTERNAL SIDE (UPFLOW) FILTER RACK: RXGF-CD

EXTERNAL (DOWNFLOW) FILTER RACK: RXGF-CC

FILTER RACK FILTER SIZES* INCHES [mm]			
MODEL	**RXGF-CB (UPFLOW/ HORIZONTAL)**	**RXGF-CD (UPFLOW)**	**RXGF-CC (DOWNFLOW)**
MP962W040	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	12 x 20 [305 x 508]
MP962W060	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	12 x 20 [305 x 508]
MP962W070	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	12 x 20 [305 x 508]
MP962W070 (wide)	19 1/4 x 25 [489 x 635]	15 3/4 x 25 [400 x 635]	12 x 20 [305 x 508]
MP962W085	19 1/4 x 25 [489 x 635]	15 3/4 x 25 [400 x 635]	12 x 20 [305 x 508]
MP962W100	19 1/4 x 25 [489 x 635]	15 3/4 x 25 [400 x 635]	12 x 20 [305 x 508]
MP962W115	22 3/4 x 25 [578 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [356 x 508]

*Filter racks are shipped without filters.
Filters shipped with furnace may be used or a suitable 1" [25.4 mm] filter.

Indoor Coil Casings

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

For High Altitudes:

NOTE: For Canadian installations only, an optional derate (manifold gas pressure reduction) method may be used to adjust the furnace for altitude. See Installation Instructions for more information. This optional method may **NOT** be used for U.S. installations. See installation instructions as appropriate orifice change is required.

L.P. CONVERSION KIT: RXGJ-FP34

CONDENSATE PUMP KIT: PROSTOCK & 1PCB151TUL

DOWNFLOW/HORIZONTAL CONVERSION KIT: RXGY-CK

DOWNFLOW/HORIZONTAL LEFT ZERO CLEARANCE CONVERSION KIT: RXGY-ZK

COMBUSTIBLE FLOOR BASE: RXGC-B17
RXGC-B21
RXGC-B24

[ ] Designates Metric Conversions

MAINLINE®
Reliably Comfortable.™

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.**

Conditional Parts
(Registration Required).....Ten (10) 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."

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