
TECHNICAL SPECIFICATIONS

M2RL Series

High Efficiency / Direct Vent

Condensing Downflow Gas Furnace

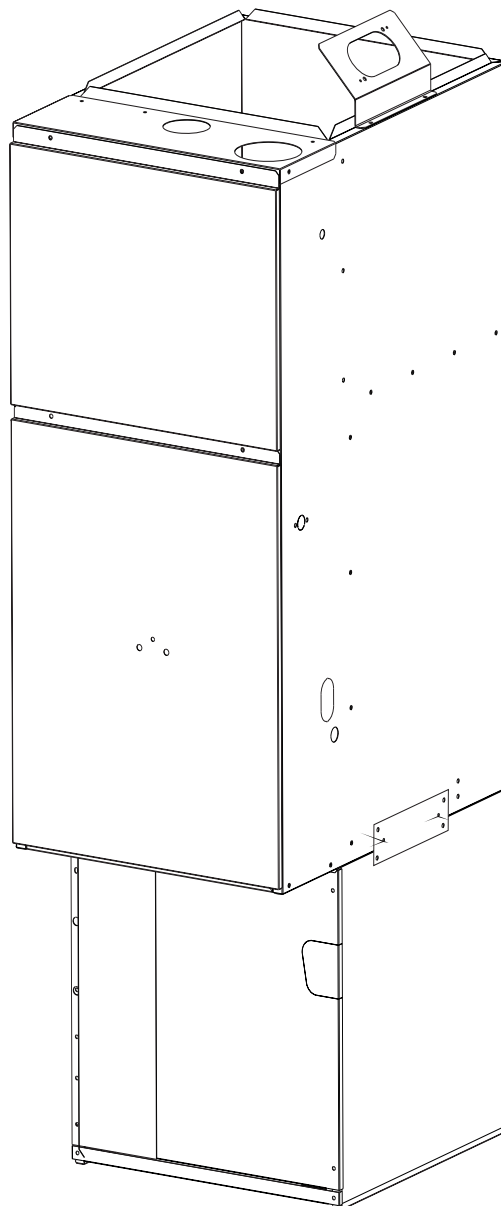
Induced Draft - 90+ AFUE Input

60,000 80,000 & 100,000 Btuh

The high efficiency downflow gas furnace is especially designed for Manufactured Housing. It may be installed in a utility room, or enclosed in a closet. ETL design certified for use in the United States and Canada.

Features and Benefits

- 100% fired and tested — All units and each component (both mechanical and electrical) are tested on the manufacturing line.
- Clean and quiet operation — Due to the unique design of in-shot burners, location of inducer and use of insulation.
- Fixed 30 second blower delay at burner start-up assures a warm outlet air temperature at furnace start-up. Adjustable blower off settings (60, 90, 120 and 180 seconds).
- Fixed 30-second post purge increases life of heat exchanger.
- Dependable, hot surface ignitor — Innovative application of an appliance type ignitor with a 20-year history of reliability.
- Tubular primary heat exchanger — Heavy gauge aluminized steel heat exchanger assures a long life.
- Stainless steel secondary heat exchanger assures a long life.
- 90-second fixed cooling cycle blower-off delay (TDR) increases cooling performance when matched with a NORDYNE coil.
- Approved for direct vent furnace, category IV venting system — May be vertically or horizontally vented using a two-pipe system for maximum flexibility in installation.
- Multi-speed direct drive blower — Designed to give a wide range of cooling capacities. 40VA transformer included.
- LP convertible — Simple burner orifice and gas valve regulator change for ease of convertibility.
- Diagnostic light flashes identify limit failure, pressure switch failure and improper ground and polarization — for easy troubleshooting.
- 3 amp fuse protection against low voltage shorts; protects transformer and control board.
- Low voltage terminal board for easy field wiring.

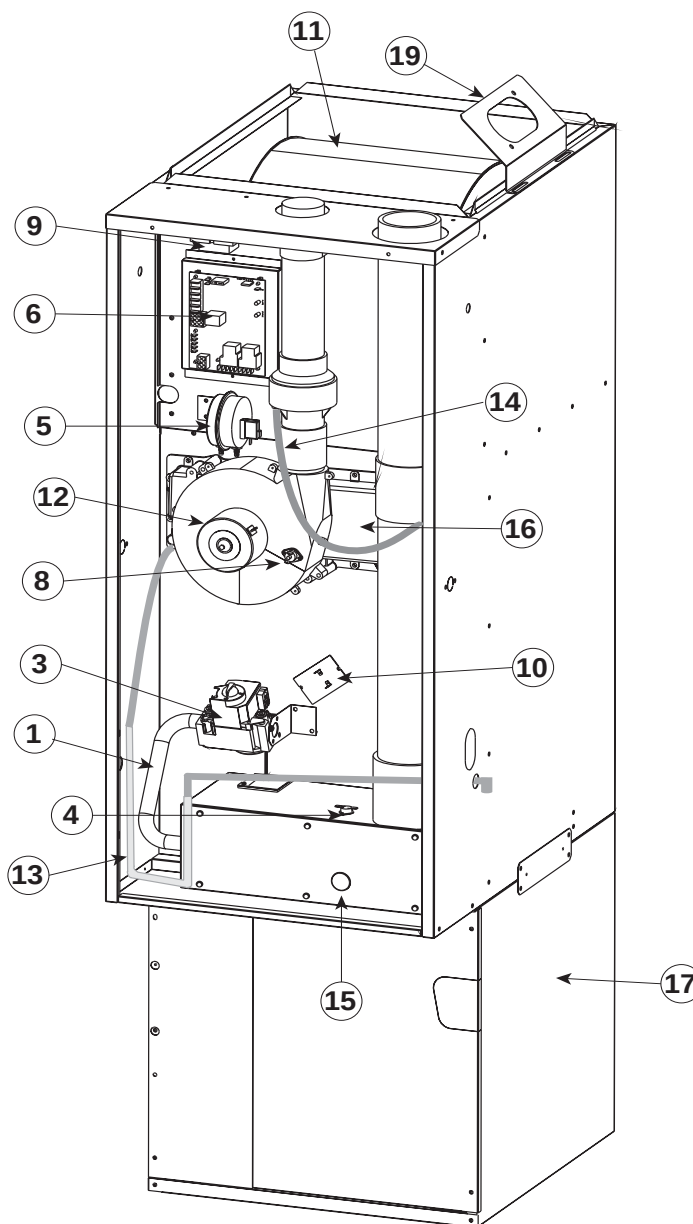


FEATURES

High Efficiency Downflow 90+ Gas Furnace

Downflow Furnace

- 1 Manifold
- 2 Flame Sensor / Ignitor (Not Shown)
- 3 Gas Valve
- 4 Flame Roll-out Switch
- 5 Pressure Switch
- 6 Control Board
- 7 Blower Door Switch (Not Shown)
- 8 Vent Safety Switch
- 9 Transformer
- 10 Supply Air Limit Switch
- 11 Circulating Air Blower Assembly
- 12 Induced Draft Blower
- 13 J Trap, Hard Tube
- 14 In-Line Drain Assembly
- 15 Burner Box Assembly
- 16 Front Header Box
- 17 A/C Coil Box (Optional Accessory)
- 18 Filter (Not Shown)
- 19 VentilAire Bracket



SPECIFICATIONS

M2RL MODEL NUMBERS:	-060C-16	-080C-16	-100C-16
Input-Btuh (a)	60,000	80,000	100,000
Heating Capacity - Btuh	54,000	72,000	90,000
AFUE	90+	90+	90+
Blower D x W	10 x 10	10 x 10	10 x 10
Motor H.P. -Speed -Type	1/2 - 4 -PSC	1/2 - 4 -PSC	1/2 - 4 -PSC
Motor FLA	9.0	9.0	9.0
Maximum Ext. SP - In. W.C.	0.5	0.5	0.5
Temperature Rise Range - °F	35 - 65	35 - 65	35 - 65

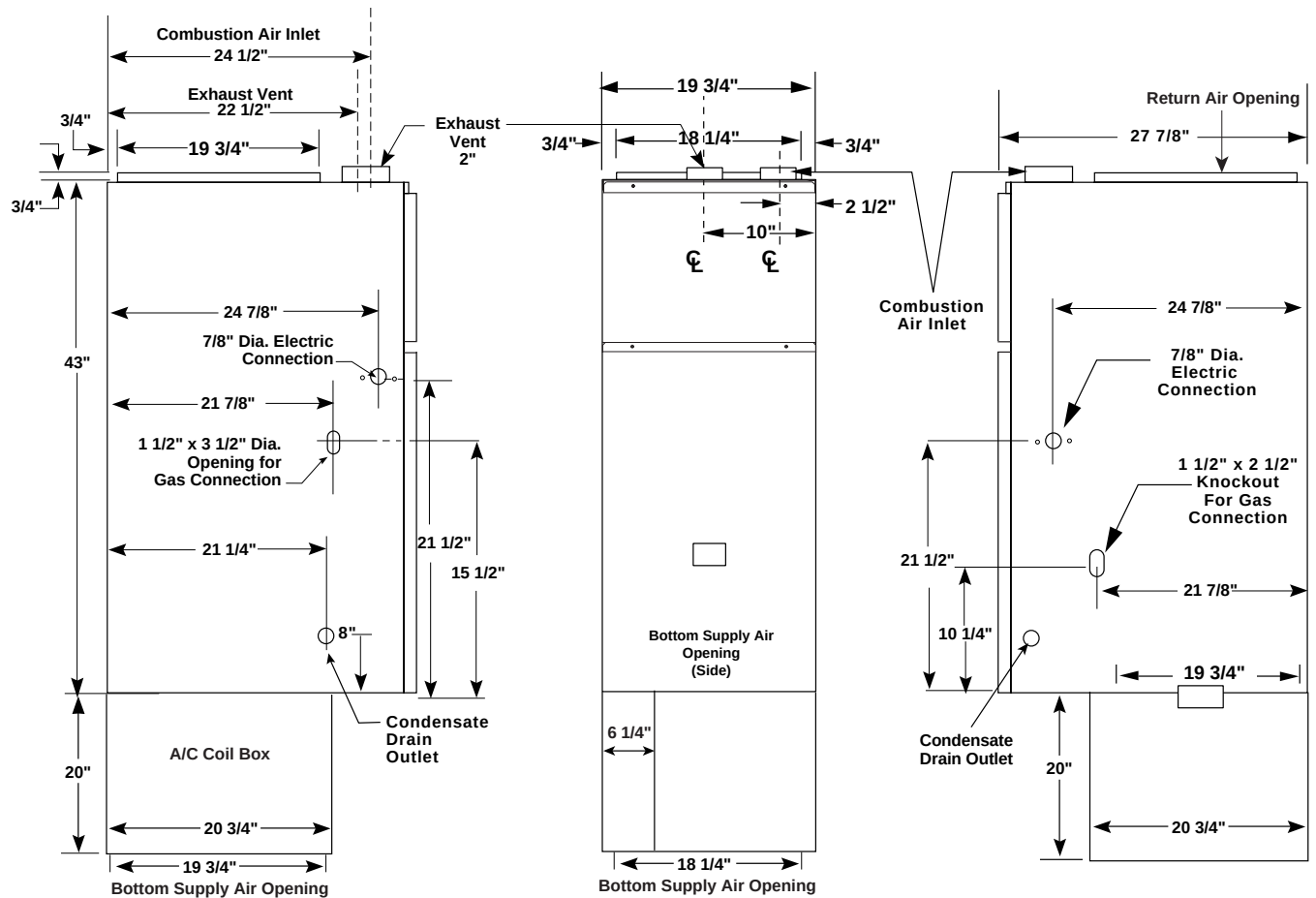
STANDARD EQUIPMENT

Direct vent; draft inducer; pressure switch; redundant main gas control; hot-surface ignition; timed ON/OFF blower controls (TDR); 40VA transformer for air conditioner application; limit controls; direct drive motor; all models can be converted to use LP (propane) gas.

Note: All models are 115V, 60 Hz. Gas Connections are 1/2" N.P.T. AFUE = Annual Fuel Utilization Efficiency

(a) Ratings to 2,000 ft. Over 2,000 ft. reduce 4% for each 1,000 ft. above sea level.

DIMENSIONS



Model	Shipping Weight (lbs)
M2RL - 060A - 16 - BN	170
M2RL - 080A - 16 - BN	170
M2RL - 100A - 16 - BN	175
A/C Coil Box	20

Table 2. Shipping Weights

BLOWER PERFORMANCE

Furnace Model No. M2RL	Furnace Input Btuh	Motor Speed	Motor HP	External Static Pressure (Inches Water Column)									
				0.1		0.2		0.3		0.4		0.5	
				CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
060C-16	60,000	High *	1/2	1620	32	1560	33	1490	35	1430	36	1365	38
		Med-High		1450	36	1400	37	1350	38	1295	40	1240	42
		Med-Low **		1255	42	1225	43	1180	44	1145	45	1105	47
		Low		1080	48	1055	49	1030	61	1000	52	960	54
080C-16	80,000	High *	1/2	1635	42	1585	44	1525	45	1460	47	1400	49
		Med-High		1435	48	1395	50	1350	51	1300	53	1255	55
		Med-Low **		1230	56	1200	58	1165	59	1130	61	1090	64
		Low		1050	-	1035	-	1010	-	980	-	950	-
100C-16	100,000	High *	1/2	1600	54	1555	56	1500	58	1445	60	1380	63
		Med-High **		1475	59	1435	60	1385	63	1335	65	1290	-
		Med-Low		1320	-	1290	-	1250	-	1215	-	1170	-
		Low		1150	-	1130	-	1110	-	1075	-	1040	-

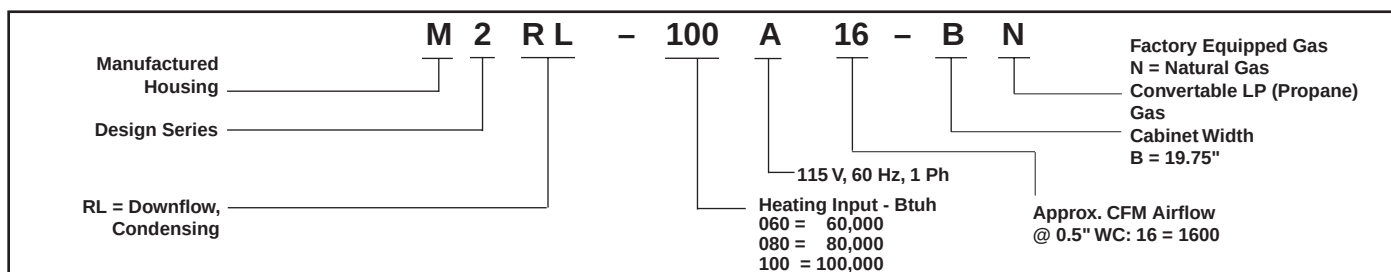
* Factory wired cooling speed tap.

** Factory wired heating speed tap.

- Not Recommended

NOTE: Data is for operation with filters

IDENTIFICATION CODE



VENTING

All models are approved for both vertical and horizontal direct (2 pipe) venting applications. See Vent Table below for specified sizes and allowable lengths.

VENT TABLE

APPLICATION	DIRECT VENT, DUAL PIPE LENGTH (ft.) with 1 long radius elbows on each pipe.*	
PVC, CPVC or ABS SCH. 40 Pipe Size	Inlet/Outlet	
	3"	3"
Model M2RL 060	50	50
Model M2RL/L 080	90	90
Model M2RC/L 100	90	90

* NOTE:

1. Subtract 3.5 ft. for each additional 3" elbow.
2. Two 45 degree elbows are equivalent to one 90 degree elbow.
3. One short radius elbow is equivalent to two long radius elbows.
4. Do not include termination elbows in calculation of vent length.
5. This table is applicable for elevations from sea level to 2000 ft. For higher elevations decrease vent pipe lengths by 8% per 1000 ft. of altitude.
6. Only the above pipe materials are approved for use with M2 Condensing Furnaces.

ACCESSORY VENT KITS

3" PVC Horizontal Exterior Vent Mounting Kit	9023750
Neutralizer Kit - All Models	9023770

Accessories	
Kit	Order Number
Fossil Fuel Kit	914762
A/C Coil Box	914958
Sloped Roof VentilAire III Kit	914098
Sloped Roof VentilAire IV Kit	914229
Soffit VentilAire Kit	917201
Concentric Vent Termination Kit (for horizontal and vertical venting)	903578
Variable Speed Kit	904075



712A-0408 (Replaces 712A-0501)

NORDYNE

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A. (04/08)