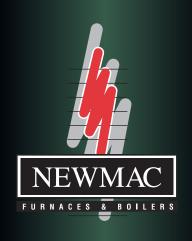


combination oil/solid fuel FURNACES





PROVEN COMFORT

NEWMAC ~ ALTERNATIVE FUELS, HIGH EFFICIENCY HEATING SOLUTIONS



WOOD/WOOD-COAL

- 1 Replaceable stack assembly
- 2 Stack Baffle
- 3 Ten year prorated warranty on heat exchanger
- 4 Steel inner wall gives extra insulating protection
- 5 Disposable filters
- 6 Large 12" squirrel cage blower moves the filtered air quietly throughout your home
- 7 Scandinavian baffle causes the flame to pass through itself, mixing with secondary air to burn creosote-causing gases
- 8 20" long firebrick lined firebox
- 9 Preheated combustion air is introduced by a thermostatically controlled draft system. This method promotes high efficiency and reduces creosote
- 10 A curtain of air prevents smoke from coming out the fire door when the furnace is charged with fuel
- 11 Large fire door for easy loading
- 12 Attractive baked enamel casing
- 13 Cleaning tools provided



WG-100

*WG or WB not to be used as add on models
Grated models not recommended for burning wood

WB-100

Model WG-100

An extra large fire door, firebox with shaker grates, and cleanout door are just three of the many features that make the model WG-100 an exceptional solid fuel furnace. This furnace can be used in areas where you have the option of burning readily available anthracite coal. (80,000-100,000 BTUs)

Model WB-100

When your solid fuel source is wood only, this grateless furnace offers better control, outstanding performance, reliability and efficiency. This furnace can be used alone or in conjunction with your present system to warm your home, no matter what the weather. (80,000-100,000 BTUs)

Newmac has a reputation for developing the kind of high efficiency furnaces and boilers that our customers demand.

Our multi-fired units are competitively priced and built under strict ISO 9001 standards to ensure years of dependability.

All units are backed by the best warranties in the business and Newmac offers technical support that you can count on.



Grated models not recommended for burning wood

CL-86/96C

WOOD & OIL/GAS COMBINATION

- 1 Separate combustion chamber for oil/gas*
- 2 All welded steel heat exchanger with a 10 year limited warranty
- 3 Steel inner wall gives extra insulating protection
- 4 Wide flue passages for easy cleanout
- 5 Secondary heat exchanger maximizes heat transfer
- 6 Ceramic fibre chamber for combustion efficiency
- 7 Extra large brick lined firebox
- 8 Quiet flame retention head oil burner or power gas burner*
- 9 Optional heavy duty cast iron shaker grates facilitate burning anthracite coal with a large cleanout door
- 10 Preheated combustion air is introduced by a thermostatically controlled draft system. This method promotes high efficiency and reduces creosote
- 11 A curtain of air prevents smoke from coming out the fire door when the furnace is charged with fuel
- 12 Disposable air filters
- 13 Extra large firebox door for easy loading
- 14 Twin blowers
- 15 Single 8" smoke pipe
- Blower section can be mounted on the left or right hand side
- 17 Pre-wired electrical harness for easier installation
- 18 Cleaning tools provided

Models CL-86-96C / CL-115-170C

Separate combustion chambers with automatic switching from wood to oil, separate thermostats, and a large fire-door begin a list of conservation features. This furnace burns wood without grates for better control and efficiency.

- CL 86-96 C
 Output: Oil 86,000-96,000 BTUs / Wood (Avg.) 100,000 BTUs
- CL 115-170C
 Output: Oil 115,000-170,000 BTUs / Wood (Avg.) 140,000 BTUs

Models CL-86-96G / CL-115-170G

Where anthracite coal is available, these models give you the ultimate conservation choice. Features include a large firebox and firedoor with shaker grates for coal.

Whether it's used to heat a vacation home or a large dwelling, these models are both true all fired winners when efficiency and energy sources matter to you.

- CL 86-96G
 Output: Oil 86,000-96,000 BTUs/
 Wood (Avg.) 100,000 BTUs
- CL 115-170G
 Output: Oil 115,000-170,000 BTUs/ Wood (Avg.) 140,000 BTUs

*Gas available only in the U.S.A.

Rear oil section

CL-86/96G



WAO



GAO



WB-100E



WG-100E

Models WAO (wood) / GAO (coal)

Newmac's WAO (wood) and the GAO (coal) solid fuel Add-On furnaces are designed for operation in conjunction with existing residential oil furnace systems.

Both furnaces provide increased heating efficiency without the expense of an all new retrofit installation. The Newmac WAO (wood) and GAO anthracite(coal) furnaces have a performace range of 80,000-100,000 BTUs. They are WARNOCK-HERSEY listed as an add-on for use with an oil-fired system which has a firing rate of .75 gph to 1.10 gph. Tested to CSA Standard 366.1M and UL Standard 391.

Newmac Quality Features:

- Extra large firedoor for easy charging and cleaning
- Extra large brick lined firebox
- Thermostatically controlled draft system forces preheated air into the combustion chamber for high efficiency and minimal creosote buildup
- Heat-exchanger, 14 gauge all welded steel for durability
- Newmac 10 year limited warranty
- Cast iron shaker grates on GAO model for coal burning
- Pre-wired electrical harness for easier installation

Models WB-100E / WG-100E

Newmac model's WB100E and WG100E provide dependable heat from either solid fuel or electric energy.

Solid Fuel Features:

- All welded steel construction
- 10 year limited warranty on heat exchanger
- Large fire box and clean-out doors for easy loading and cleaning
- No smoke baffles make wood/coal charging easy and safe
- A curtain of air prevents smoke coming out the fire door when the furnace is charged with fuel
- Cast iron shaker grates on WG-100/E model

Electric Features:

- Separate thermostats allow automatic switching from solid fuel to electric heat
- Elements designed to sequence on individually and simultaneously with the circulating blower
- No manual resets are necessary.
 In case of power overload or failure, the unit will automatically come on when power is restored and the electric thermostat is calling for heat
- The electric heating section can be installed to facilitate controls on either side and is CSA certified
- The 10KW unit requires only a standard 100 amp service

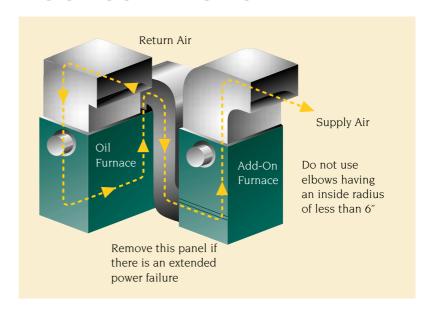


SPECIFICATIONS

Model	CL-86C	CL-96C	CL-86G	CL-96G	CL-115C	CL-140C	CL-155C	CL-170C	CL-115G	CL-140G	CL-155G	CL-170G	WB-100	WG-100
AVG. WOOD OUTPUT (BTU/H)	100,000	100,000	100,000	100,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	140,000	100,000	100,000
OIL OUTPUT (BTU/H)	86,000	96,000	86,000	96,000	111,000	140,000	152,000	169,000	111,000	140,000	152,000	169,000		
NOZZLE gph (80; SOLID)	.75 (80°)R	.85 (80°)R	.75 (80°)R	.85 (80°)R	1.00 (80°)R	1.25 (80°)R	1.35 (80°)R	1.50 (80°)R	1.00 (80°)R	1.25 (80°)R	1.35 (80°)R	1.50 (80°)R		
BLOWER	TWIN 9"	TWIN 9"	TWIN 9"	TWIN 9"	TWIN 10"	TWIN 10"	TWIN 10"	TWIN 10"	TWIN 10"	TWIN 10"	TWIN 10"	TWIN 10"	G 12"	G 12"
MOTOR	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/2 HP	1/2 HP				
CFM	1200	1200	1200	1200	1300	1500	1700	1900	1300	1500	1700	1900	1200	1200
AIR FILTERS	2-16"x25"	2-16"x25"	2-16"x25"	2-16"x25"	2-20"x25"	2-20"x25"	2-20"x25"	2-20"x25"	2-20"x25"	2-20"x25"	2-20"x25"	2-20"x25"	2-12"x24"	2-12"x24"
EX STATIC	.20	.20	.20	.20	.20	.20	.20	.25	.20	.20	.20	.25	.20	.20
FLUE	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"
FIREBOX Ð INSIDE DIMENSIONS (L-W-H)	24" x 14" x 18" (Firebrick)	24" x 14" x 18" (Firebrick)	24" x 14" x 14" (Firebrick)	24" x 14" x 14" (Firebrick)	221/2" x 18" x 18" (Firebrick)	23" x 21" x 13" (Cast Iron)	20" x 13 1/2"x18" (Firebrick)	24" x 14" x 14" (Firebrick)						
FIREDOOR	14" x 14"	14" x 14"	14" x 14"	14" x 14"	171/2" x 171/2"	171/2" x 171/2"	171/2" x 171/2"	171/2" x 171/2"	171/2" x 171/2"	171/2" x 171/2"	171/2" x 171/2"	171/2" x 171/2"	14"x14"	14"x14"
CLEAN OUT DOOR	N/A	N/A	9" x 14"	9" x 14"	N/A	N/A	N/A	N/A	9 x 171/2"	9 x 171/2"	9 x 171/2"	9 x 171/2"	N/A	9x14"
WEIGHT	815 lbs.	815 lbs.	900 lbs.	900 lbs.	1010 lbs.	1010 lbs.	1010 lbs.	1010 lbs.	1015 lbs.	1015 lbs.	1015 lbs.	1015 lbs.	600 lbs.	725 lbs.
ELECTRIC INSERTS	-	-	-	-	-	-	-	-	-	-		-	10, 15, 20, or 25 kW	10, 15, 20 or 25 kW

Model	WAO	GAO
AVG. WOOD OUTPUT (BTU/H)	100,000	100,000
CFM	1200	1200
EX STATIC .20	0.20	0.20
FLUE	8"	8"
FIREBOX - INSIDE DIM. (L-W-H)	24" x 14" x 18"	24" x 14" x 18"
FIREDOOR	14"x14"	14"x14"
CLEAN OUT DOOR	-	9x14"
WEIGHT	485 lbs.	580 lbs

WAO/GAO "INLINE" DUCT CONNECTION



- Select model based on heat loss of structure
- Non-grated models recommended for burning wood only.
- All solid fuel and combination furnaces will provide gravity heat during a power failure when installed correctly.
- Do not install any model in a counter flow configuration.

DIMENSIONS

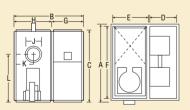
Model	CL-86C-96C	CL-115C-170C	CL-86G-96G	CL-115G-170G
A Length	49 1/4"	53 1/2"	49 1/4"	53 1/2"
B Width	42"	48 1/4"	42"	48 1/4"
C Height	45 1/2"	51 1/2"	45 1/2"	51 1/2"
D&F Rtn Air Plenum	16 1/4" x 47 1/2"	18 1/4" x 51 1/2"	16 1/4" x 47 1/2"	18 1/4" x 51 1/2"
E&F Warm Air Plenum	22 1/4" x 47 1/2"	26 1/4" x 51 1/2"	22 1/4" x 47 1/2"	26 1/4" x 51 1/2"
G Blower Section Width	18"	20"	18"	20"
H Furnace Section Width	24"	28 1/4"	24"	28 1/4"
J Flue Pipe Dia.	8"	8"	8"	8"
K Flue Pipe to Side of Furnace	12"	14"	12"	14"
L Floor to Centre of Flue Pipe	33 1/2"	35"	33 1/2"	35"

Model	WB100	WB100-E	WG100	WG100-E	WAO	GAO
A Length	54 1/4"	54 1/4"	57 1/4"	57 1/4"	31 1/4"	31 1/4"
B Width	26"	26"	26"	26"	26"	26"
C Height	43"	43"	46"	46"	45 3/4"	45 3/4"
D&E Rtn Air Plenum	24 1/4" x 23 1/4"					
E&P Rtn Air Plenum					16 1/8" x 14"	16 1/8" x 14"
D&F Warm Air Plenum	24 1/4" x 27 1/4"	n/a	24 1/4"x 30 5/8"	n/a	29 1/2"x 24 1/4"	29 1/2" x 24 1/4"
G Flue Pipe Dia.	8"	8"	8"	8"	8"	8"
H Flue Pipe to Center of Furnace	13"	13"	13"	13"		
J Floor to Centre of Flue Pipe	33 1/2"	33 1/2"	37 1/2	37 1/2	38"	38"
K Floor to Bottom of Return Air					2"	2"
L Electric Insert Height		16"		16"		
M Electric Insert Width		30"		30"		
N&O Warm Air Plenum for Insert		18" x 31"		18" x 31"		
Q Length with Insert		57 1/2"		57 1/2"		
Electric Insert Shipping Weight		80 lbs.		80 lbs.		

FOOTPRINTS

Note: Combination blower section or Electric Insert Control panel can be mounted on either left or right hand side of furnace

CL-86-96C, CL-115C-170C, CL-86G-96G, CL-115G-170G







WB100E

WB100

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Newmac and its appliances are listed or certified by one of more of the following agencies.



















Ask about Newmac's complete line of oil fired forced air furnaces/boilers and combination oil/solid fuel furnaces.

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