

NAPOLEON



HYBRID SERIES FURNACES
napoleonheatingandcooling.com



PROUDLY MADE IN CANADA FOR NORTH AMERICAN WINTERS

ENERGY SAVINGS AND COMFORT

Napoleon's Hybrid Series furnaces boast clean energy with sleek hybrid fuel designs. Hybrid furnaces switch from wood to their secondary heat source automatically. If the furnace runs out of wood, a second thermostat controlling the optional electric, oil or gas components will engage and keep your house warm even if you are not home. During power failures, the wood burning portion uses gravity air flow for emergency heating. Napoleon's Hybrid Series Furnaces are extremely clean burning and certified to the latest emission standards (CSA B415.1-10) with efficiency ratings as high as 77.2%. The Napoleon Hybrid Series are among the cleanest, most efficient furnaces on the market.

Advanced Combustion System

Oil Furnace: The stainless steel combustion chamber/heat exchanger of the oil furnace module can be connected to your choice of Beckett or Riello high-efficiency burners to give you many years of reliable and safe performance.

Wood Furnace: A stainless steel tube combustion system achieves a secondary burn cycle. Not only are you getting energy from the wood, but also from the wood gases which are mixed at the precise ratio of temperature and oxygen. To achieve an extraordinary clean burn without a catalytic combustor, horizontal jets of super heated secondary air are mixed with the fire's smoke to burn off released smoke particles. You can watch the torch-like secondary flames just below the ceiling during the burn. This results in more heat, cleaner exhaust, fast start up, less chimney maintenance and less trips to the woodpile.

Modular Design Offers Flexible Installations

Napoleon's Canadian made 9600 Series gas furnace has been configured to operate with the multi-fuel Hybrid. Combining the environmentally conscious features of the Hybrid furnaces with the efficiency of the 9600 Series gas furnace offers superior performance. Napoleon's Hybrid furnaces are designed with features such as insulated cabinets and knockouts on both sides to offer multiple configuration options and incredibly low clearances for easy installation. The various configurations can be seen below - left hand return air configurations are shown, right hand return air configurations can be achieved by easy reversal of side panels.

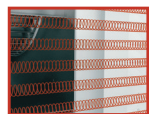


Hybrid 150 & 200

With a firebox volume of 3.4 cu. ft. the Hybrid 150 will handle heating requirements up to 2000 sq. ft. while the Hybrid 200's 4.5 cu. ft. capacity will provide heat for areas up to 3000 sq. ft. for well insulated homes. Both models are also now Central A/C adaptable for further convenience and versatility.

1. Clean out door
2. Wood heat exchangers
3. Cabinet
4. Bypass damper
5. Ceramic glass or solid insulated cast door
6. 4" Ash lip
7. Ash dump & pan
8. Optional stainless steel oil combustion & heat exchanger module
9. Opening for ductwork
10. Air control
11. Direct outside air
12. 6" Flue
13. Outside air collar
14. Bypass damper control rod
15. Baffle
16. Stainless steel secondary air tubes
17. High temperature refractory liner
18. Oil exhaust
19. Opening for return air duct (left or right side option)
20. Blower (left or right side option)
21. Optional electric element
22. Optional oil burner module
23. Wood fire chamber
24. Stainless steel replaceable airwash system
25. Levelling legs
26. Cleaning brush and rod come standard
27. Heat resistant leather gloves come standard

3 Heavy duty, 24 gauge powder coated cabinet features sound dampening, high density fibre insulation.

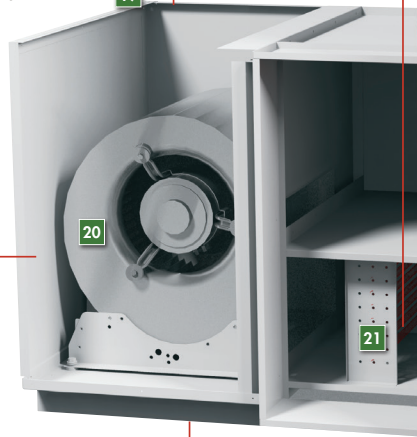


Optional electric element.

Available in 15, 18 & 20 kW for Hybrid 150.

Available in 18, 20 & 25 kW for Hybrid 200.

Return air designed to use standard 16" x 25" furnace filters.



The modular component design allows the blower module to be moved to either side of the main furnace to facilitate installation.

Blower, air ducts and electric furnace module can be installed on the left or right side of the furnace for versatile installations.



Vesta Award Winner



The Editor's at Green Builder® magazine have selected the HMF150 for their HOT 50 Product list; a collection of advanced products that their editor's believe will have a significant impact on sustainable construction.

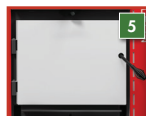


11 Outside air enters the firebox through a stainless steel tube.



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4 The manual bypass damper allows the unit to perform a quicker, cleaner startup.



Cast iron door with ceramic fibre insulation and cover.



Cast iron door with ceramic viewing glass.

13 A four inch port draws air directly from the outside into the combustion chamber for maximum efficiency.

12 6" flue increases to 7" if oil option is added.

10 Thermostatic air control regulates primary air and burn rate.

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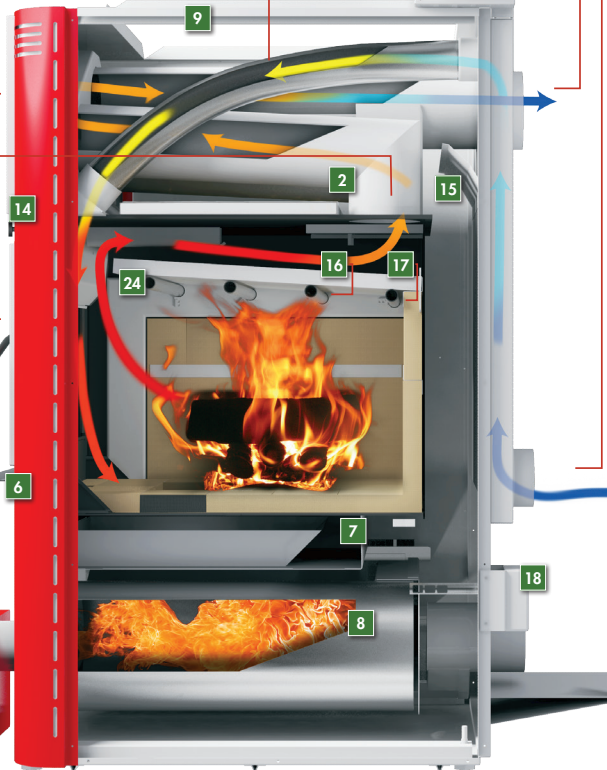
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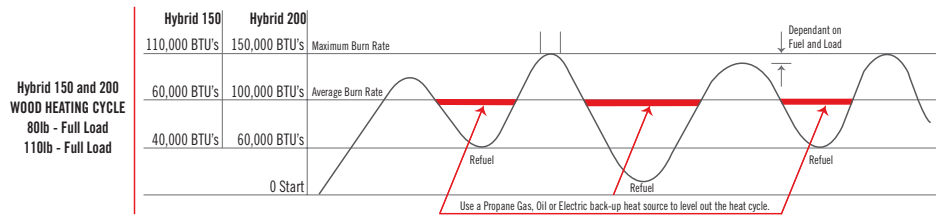
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TRIPLE FUEL COMBINATION FOR YOUR PEACE OF MIND

Leave home for an extended period without worrying about how to keep your wood furnace operational. Napoleon Hybrid Series furnaces switch from wood to the secondary heating source automatically. If the furnace runs out of wood, a second thermostat controlling the optional electric, oil or gas components will keep your home warm even when you're not there. During power failures, the wood portion of the furnaces are designed to use gravity air flow for emergency heating. High fire can be maintained by using a manual override on the primary air control. The stainless steel combustion chamber / heat exchanger of the oil furnace module can be connected to your choice of Beckett or Riello high-efficiency burners to give you many years of reliable and safe performance. Depending on the Hybrid model, optional electric heating modules are available in 15, 18, 20 and 25 kW ratings.

NAPOLEON - CELEBRATING OVER 40 YEARS OF HOME COMFORT PRODUCTS



Use the following chart as a general guideline for selecting either the Hybrid 150 or Hybrid 200 based upon heat loss calculation results for the application being considered.

Model	Calculated BTU's Required
HMF150	40,000 - 60,000 BTU's
HMF200	60,000 - 100,000 BTU's

SPECIFICATIONS

	HMF150	HMF200
Maximum peak input capacity (wood)*	150,000 BTU's	200,000 BTU's
Maximum peak output capacity (wood)*	110,000 BTU's*	150,000 BTU's*
Average output capacity (wood)* - see graph below	60,000 BTU's*	100,000 BTU's*
Optional oil furnace module (input)	70,000 - 93,000 BTU's / Up to 85% AFUE	70,000 - 93,000 BTU's / Up to 85% AFUE
Electric furnace module (optional)	51,000 - 70,000 BTU's (15 - 20 kW)	70,000 - 85,000 BTU's (18 - 25 kW)
Efficiency (wood) (maximum)**	72.1%	77.2%
Emissions (wood)	3.4 grams per hour	4.5 grams per hour
Blower	4 speed - 1400 CFM	4 speed - 1400 CFM
Recommended exhaust pipe size (wood only), (in)	6	6
Recommended exhaust pipe size (wood/oil/combo), (in)	7	7
Type of chimney	High temperature 6"	High temperature 6"
Max. Log length (in)	24	30
Loading capacity	3.4 cu. ft. / APR 110Pds	5 cu. ft. / APR 110Pds
Furnace dimensions (complete with blower), (in)	48 w x 32 d x 52 h	48 w x 39 d x 52 h
Furnace dimensions (wood/oil with blower), (in)	48 w x 42 d x 52 h	48 w x 49 d x 52 h
Furnace dimensions (wood/electric with blower), (in)	60 w x 32 d x 52 h	60 w x 39 d x 52 h
Furnace dimensions (wood/electric/oil with blower), (in)	60 w x 42 d x 52 h	60 w x 49 d x 52 h
Minimum clearance to combustibles (in)	14 sides x 24 back x 48 front	14 sides x 24 back x 48 front
Firebox dimensions (in)	18 w x 24 d x 13 1/2 h	20 w x 32 d x 13 1/2 h
Firebox front opening (in)	16 1/2 w x 9 1/2 h	16 1/2 w x 9 1/2 h
Hot air plenum dimensions (in)	22 w x 24 d	22 w x 31 d
Cold air plenum dimensions (in)	14 w x 23 d	14 w x 23 d

*BTU output is not a continuous, steady output; it cycles by the amount and frequency with which the fuel is loaded in the furnace.
 **Depending on burn conditions
 Certification Standards: CSA B366.1-M91, B140.4-04, B212-00, UL 1995/CSA C22.2 No.236, UL 391, UL 727, CSA B415.1-10
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