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### Modular Design Flexible Installations

Napoleon's Canadian made 9600 Series gas furnace has been configured to operate with the multi-fuel Hybrid 150° and Hybrid 200°. Combining the environmentally conscious features of the Hybrid furnaces with the efficiency of the 9600 Series gas furnace offers superior performance. The Hybrid 150 and Hybrid 200 can also operate with oil or electric secondary heat sources. High efficiency has never been greener thanks to renewable energy and superior engineering. Napoleon's Hybrid furncaces 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 Hybrid 150 and Hybrid 200 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.





A combination wood / electric furnace





A triple-fuel wood / oil / electric furnace



Combined with a Napoleon Gas Furnace and the HMFK-GT Transition kit



Add-on wood furnace to your existing heating system





The Editor's at Green Builder<sup>\*</sup> 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.

Napoleon's Hybrid Multi-Fuel Combination Furnaces are extremely clean burning wood furnaces that are certified to the latest emission standards (CSA B415.1-10) and boast efficiency ratings as high as 88.6%. The Napoleon Hybrid Series are some of the cleanest and most efficient combination solid fuel-burning furnaces on the market today.



#### **Superior Combinations**

At the 2012 HPBExpo Vesta Awards in Atlanta Georgia, Napoleon's Wood/ Gas Furnace Combination was honored with winning the Central Heating Systems Category Award and went on to win the prestigious Daniel J. Melcon Award for Best-in-Show – Hearth Products. The Combo Furnace won for its industry first design, green technology and fuel saving capabilities.



# Hybrid Series wood & combination fuel furnaces

#### Multi Fuel Combinations for Added Convenience and Peace of Mind

Go away for an extended period without worrying about keeping your wood furnace operational. Napoleon's Hybrid Series furnaces switch from wood to their 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 and toasty even if you are not at home. During power failures, the furnaces (wood portion only) 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 (HMF150 and HMF200 models only) can be connected to your choice of Beckett or Riello high-efficiency burners to give you many vears of reliable and safe performance.

Depending on the Hybrid model, optional electric heating modules are available in 15, 18, 20 and 25 kW ratings.

#### Solid Construction and Automatic Combustion Control

Hybrid Series furnaces come standard with a fully welded and refractory brick lined combustion chamber, similar to a kiln, for many years of safe and trouble free performance. The thermostat sets the desired heat level for a roaring fire and then shuts down for a long, clean and consistent burn. A Bypass Exhaust Damper built into the Hybrid 150 and Hybrid 200 ensures guick and clean start ups.

#### **Advanced Combustion System**

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.

## Hybrid 150 & 200

With a firebox volume of 3.4 cu. ft. the Hybrid 150 will handle heating requirements for 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

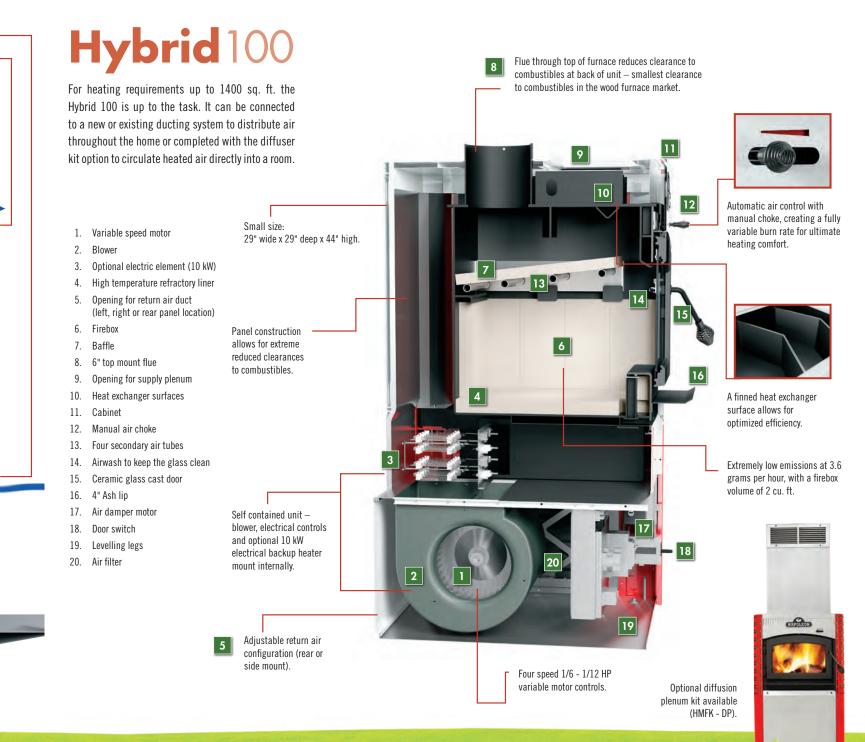
- 2. Wood heat exchangers
- 3. Cabinet
- 4. Bypass damper
- 5. Ceramic glass or solid insulated cast door
- 6. 4" Ash lip
- 7. Ash dump & pan
- 8. Optional stainless steel oil combustion & heat exchanger module
- 9. Opening for ductwork
- 10. Air control
- 11. Direct outside air
- 12. 6" Flue
- 13. Outside air collar
- 14. Bypass damper control rod
- Baffle 15.
- 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
- Cleaning brush and rod come standard 26.
- 27. Heat resistant leather gloves come standard











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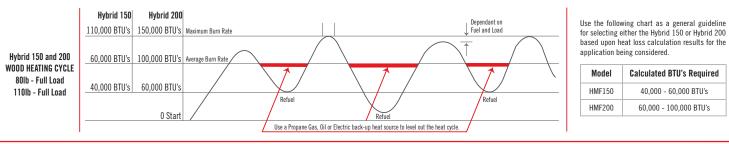


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SPECIFICATIONS			
	Hybrid 100	Hybrid 150	Hybrid 200
Maximum peak input capacity (wood)*	76,000 BTU's	150,000 BTU's	200,000 BTU's
Maximum peak output capacity (wood)*	65,000 BTU's	110,000 BTU's	150,000 BTU's*
Average output capacity (wood)* - see graph below	35,000 BTU's*	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)	10 kW	51,000 - 70,000 BTU's (15 - 20 kW)	70,000 - 85,000 BTU's (18 - 25 kW)
Efficiency (wood) (maximum)**	86%	88.6%	85%
Emissions (wood)	3.6 grams per hour	3.4 grams per hour	4.5 grams per hour
Blower	4 speeds - 500 - 700 CFM	4 speed - 1200 CFM	4 speed - 1400 CFM
Recommended exhaust pipe size (wood only), (in)	6	6	6
Recommended exhaust pipe size (wood/oil/combo), (in)	-	7	7
Type of chimney	High temperature 6"	High temperature 6"	High temperature 6"
Max. Log length (in)	18	24	30
Loading capacity	2.0 cu. ft.	3.4 cu. ft. / APR 80Pds	5 cu. ft. / APR 80Pds
Furnace dimensions (complete with blower), (in)	29 w x 29 d x 45 h	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)	6 back / sides x 48 front	14 sides x 24 back x 48 front	14 sides x 24 back x 48 front
Firebox dimensions (in)	20 <sup>7</sup> /8 w x 14 <sup>5</sup> /8 d x 11 <sup>5</sup> /8 h	18 w x 24 d x 13 ½ h	20 w x 32 d x 13 ½ h
Firebox front opening (in)	17 <sup>1</sup> /8 w x 9 ½ h	16 ½ w x 9 ½ h	16 ½ w x 9 ½ h
Hot air plenum dimensions (in)	22 w x 7 ½ d	22 w x 24 d	22 w x 31 d



14 w x 10 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 All specifications and designs can change. Registered trademark of Wolf Steel Ltd.

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14 w x 23 d



Cold air plenum dimensions (in)

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Calculated BTU's Required

40.000 - 60.000 BTU's

60,000 - 100,000 BTU's

14 w x 23 d