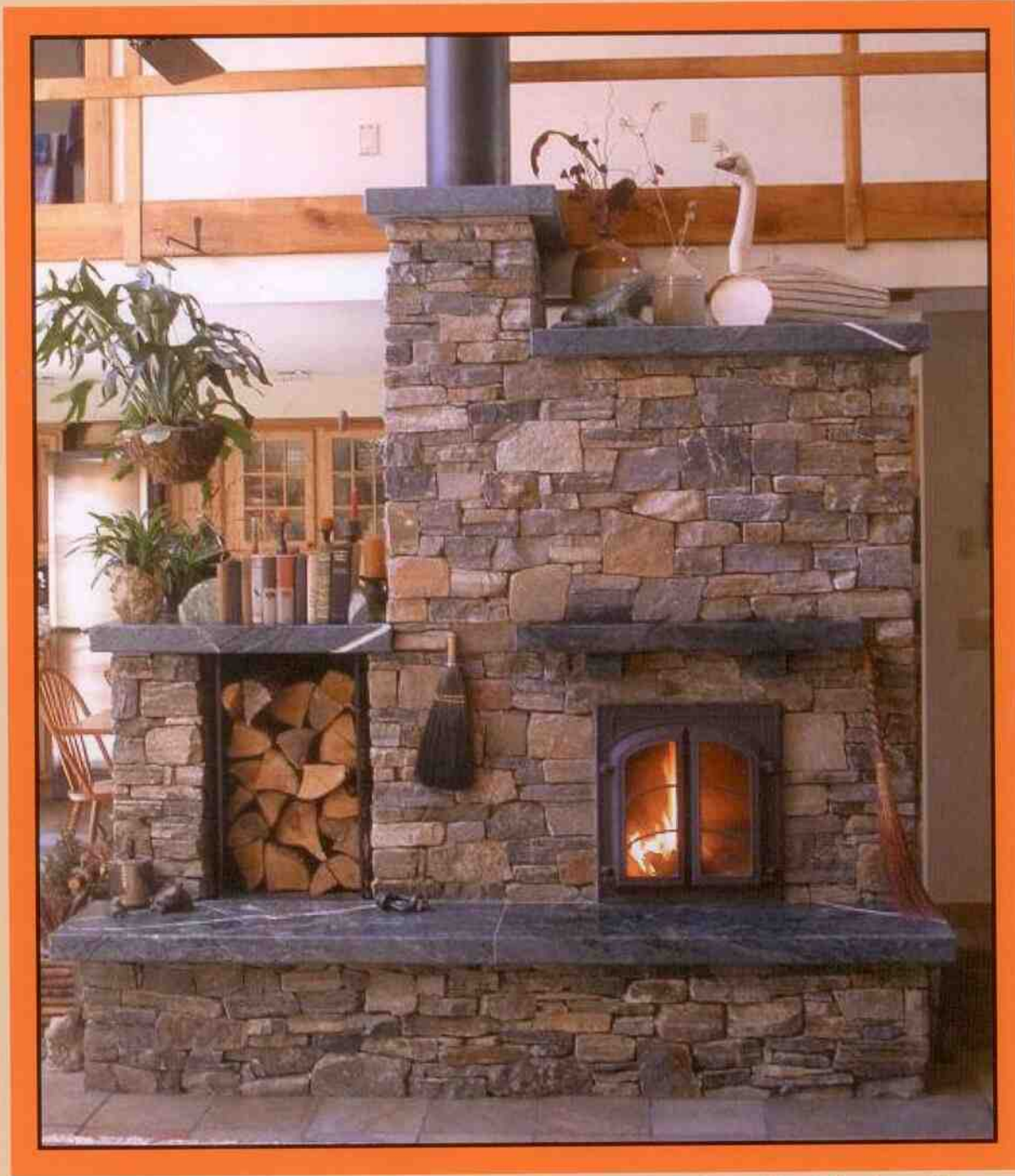


# Masonry Heaters...

## The Intelligent Choice



*Heat-Kit, Designed and Built by William Davenport, Certified Heater Mason, Turtlerock Masonry*

Masonry heaters have been used for centuries in nearly every region of the world.

Designs differ, but the operating principle remains the same - a fuel load is burned rapidly and the resulting heat is stored in a masonry mass. The heat then evenly radiates into the room for the next twelve to twenty-four hours.

Masonry heaters are the premium wood-burning system. They are very safe and extremely efficient. Properly designed, they do not produce creosote in

normal operation, and generate almost no woodsmoke emissions. Renewable sources of energy such as wood heat do not contribute to the greenhouse effect.

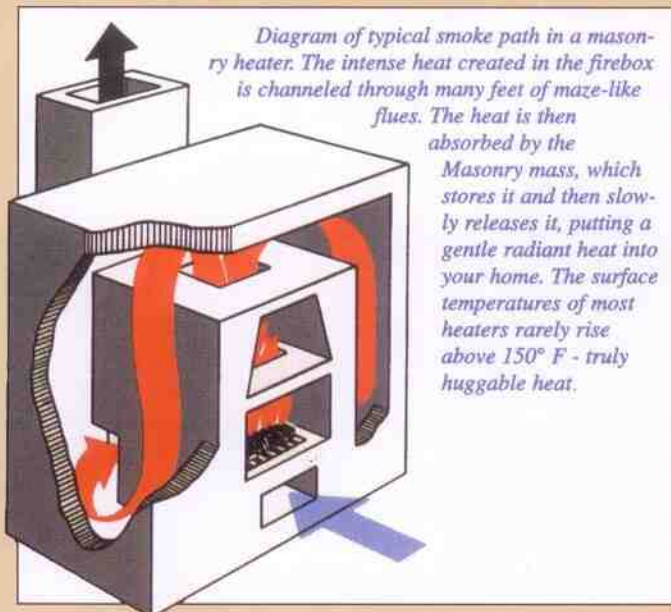
Masonry heaters today are available in a wide variety of styles and designs, both custom-built and prefabricated. Some are also masonry bakeovens and provide excellent value for your dollar.

If efficiency, comfort, and safety are part of your lifestyle, the time has come for you to consider masonry heating.



## About Masonry Heaters

Think of a masonry heater as a large warm rock in the middle of your home. It is a high-mass heat storage system. Short, hot fires generate tremendous amounts of heat which is then stored in the masonry, to be slowly and evenly released into your home.

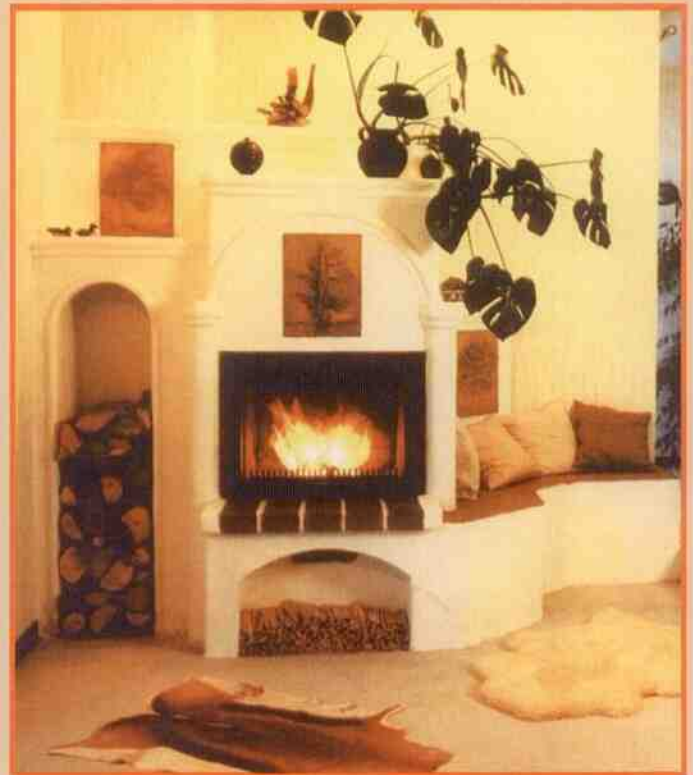


A well-built and well-maintained masonry heater more than meets all current air pollution standards.

Masonry heaters are designed to burn fuel at its maximum efficiency. To properly burn wood, you need a flame temperature above 1100 degrees F, a liberal air supply, and a good mixing of the gasses. This burns up creosote in the firebox, preventing any buildup on flue walls.



Custom Tulikivi Soapstone Fireplace - Highlands by Doug Hargrave, Mid-Atlantic Masonry Heat



The Biofire is available in many tile or stucco finishes and in many configurations. - Designed and Built by Heinz Flurer, Certified Heater Mason & Gerhart Steger of Austria

## Fuel Savings

Masonry heaters can be designed to burn almost any solid fuel, but dry, reasonably split cordwood is ideal. Some designs can handle 60 lbs in a single load. A properly designed masonry heater can warm your home on one or two fires a day, eliminating the need for constant stoking.

*At night - the whole family is safely sleeping - the fire is out but the heat is still radiating.*



Stone heater - Built by Scott Barden and Arthur Frechtling from Albie Barden Design, Maine Wood Heat Co., Inc.



## Design Considerations

Masonry heaters work best in well-insulated homes with open floor plans that allow the heat to radiate freely. They are true radiant heating systems, and there is very little temperature stratification in the house. Since radiant heat warms objects directly, you will feel warmer over a wider range of air temperatures. Imagine a sunny spring day, and the feeling of well-being that your body intuitively recognizes.

A wide range of design options and masonry facings lets you express your unique personal style. Choose from a variety of brick, stone, plaster (stucco), soapstone and tile. You can opt for a small room heater, or a massive hearth that includes a cooktop and bakeoven that will literally become the "heart" of your home.

Your design will need to include a chimney and a foundation. The design and size of the heater must be matched to your climate and your home's heating requirements. Since the heat retention and output of



Masonry Heater with Temp-Cast precast modular core  
Built by Erik Nilsen, Thermal Mass Inc.



Kachelofen, Designed and Built by - Ernst Kiesling  
Canadian Kachelofen

masonry are mathematically predictable, your heater builder can design a system that fits your needs.

Once you have determined that a masonry heater is the best choice for your home, contact the heater builder whose name appears on this brochure or contact the Masonry Heater Association of North America (MHA) for the name of a heater builder in your area. Check the references of the heater builder you contact to make sure he is the right person for the job. Look at heaters he has built and talk with their owners.



Heat-Kit Designed and Built by Norbert Senf, Certified Heater Mason  
Masonry Stove Builders

Masonry heating is not a new concept. The Romans heated their famous baths this way. The Chinese and Koreans have used masonry heat for centuries, often to heat beds or entire floors. Europeans began developing masonry heaters about 400 years ago. Russian and Scandinavian immigrants were building them 100 years ago in the North American prairies, where winters are long and cold fuel is scarce.

Mark Twain, traveling through Europe years ago, discovered the virtues of masonry heat. Here is a little of what he wrote about it:

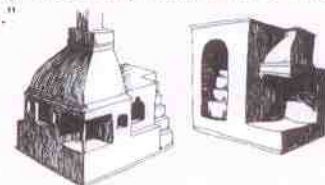
"All day long and until past midnight all parts of the room will be delightfully warm and comfortable...Its surface is not hot; you can put your hand on it anywhere and not get burnt."

"Consider these things. One firing is enough for the day; the cost is next to nothing; the heat produced is the same all

day, instead of too hot and too cold by turns..."

"America could adopt this stove, but does America do it? No, she sticks placidly to her own fearful and wonderful inventions in the stove line. The American wood stove, of whatever breed, is a terror. It requires more attention than a baby. It has to be fed every little while, it has to be watched all the time; and for all reward you are roasted half your time and frozen the other half...and when your wood bill comes in you think you have been supporting a volcano."

"It is certainly strange that useful customs and devices do not spread from country to country with more facility and promptness than they do."



Two early examples of the massive clay stoves built in Northern Europe.



## About the Masonry Heater Association

The Masonry Heater Association of North America is a non-profit organization dedicated to serving the interests of the masonry heating industry and its clients. Founded in 1987, MHA is an association of builders, manufacturers and retailers of masonry heaters.

Masonry Heater Builders learn their trade from each other, from the "old country" heater masons and through MHA-sponsored workshops and seminars.

In 1998, the MHA established a certification program for masonry heater builders. To earn their certification, each craftsman is required to demonstrate a working knowledge of masonry work, masonry heater design and construction, and relevant housing and fuel-burning regulations. MHA-approved credentials are required from each craftsman, along with verifiable documentation of at least three masonry heater construction projects they have completed within the past five years. In addition, each craftsman must achieve a passing score on the MHA certification exam.

Available on the MHA Website -

### THE MHA HEATER PLAN PORTFOLIO

The Masonry Heater Association has designed, built and tested five masonry heater plans which are now available for purchase.

The portfolio includes five sets of detailed plans for the:

- Finnish Contraflow (Small room heater 24" x 36")
  - Kakelugn (Swedish Heater)
  - Blacksburg Grundofen (Modified)
  - Medium Size Corner Finnish Heater
  - Soapstone Heater
- (Materials list for each)

Damper Options, Clean Out Options, Outside Air Options,  
Options to Finish the Top (above capping slab)

Six Line Drawings, One Generic Building Sequence Step-By-Step  
Copy ATR Engineering Masonry Heater Stabilization Report  
Copy of Swedish Emissions Report  
MHA Homeowner's Safety Manual & Burning Guide

For further information:

**Masonry Heater Association of North America**

Website: <http://mha-net.org>



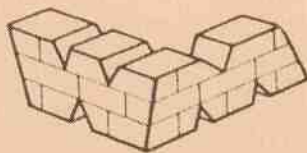
Tullkivi Soapstone  
Bakeoven/Cookstove  
LLU1250

Outdoor Bakeoven  
Designed and Built by  
Albie Barden,  
Maine Wood Heat Co., Inc.



le Panyol Bakeoven  
Designed and Built  
by Jerry Frisch,  
Certified Heater Mason  
Lopez Quarries

Should you decide that a masonry heater is indeed the best choice for your home and your family, you can look forward to many years of safe, elegant, and efficient heating.



## Western Masonry, Inc.

Po Box 569  
Woodinville, WA. 98072  
425-485-4873

[www.westernmasonry.net](http://www.westernmasonry.net)

### Certified Masonry Heater Installers:

James A. Frisch  
Derek Frisch  
Travis Stringfellow



**Masonry  
Heater  
Association**  
Of North America

