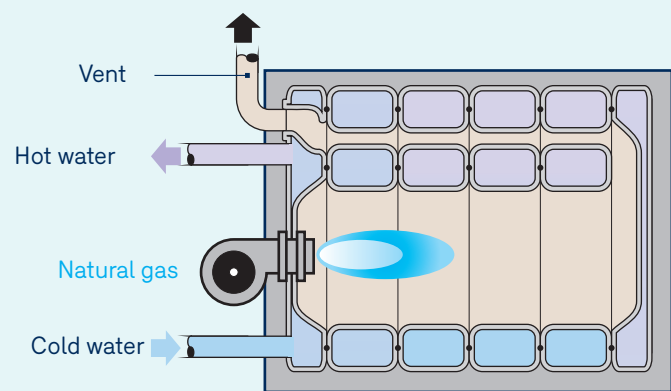


# Traditional cast iron boiler

## Concept

Cast iron holds a special place among the materials used for making boilers. In fact, using cast iron, quality boilers can be designed that can produce low pressure steam (100 kPa) or hot water at high or low pressure (up to 620 kPa maximum). Cast iron boilers are heavier and more thermally inert, and have the advantage of maintaining a given temperature longer. They are able to transfer a maximum of absorbed heat with good distribution to heating water. These boilers are particularly well suited to high-temperature applications in renovation or new construction projects. Their high mass, wet base design makes it possible to obtain high levels of efficiency.



## Advantages

- High thermal inertia.
- No minimal flow.
- Great durability.
- Useful efficiency of 85%. Available preassembled or in sectional form in order to offer more flexibility to worksite contractors.
- Silent, 3-pass heat exchanger for maximum and uniform heat transfer; simple, low cost maintenance; good modulation of boiler power results in fuel savings.
- A mixed boiler room can be created by adding a condensing boiler to increase energy efficiency and to adapt better to varied temperature requirements.
- Able to operate in autonomous mode (without electricity), depending on the boiler model.
- The chimney can be adapted with a simple chimney liner.

## Applications

- Residential, commercial, industrial and institutional heating (Can also indirectly produce domestic hot water)
- Melting snow

## Energy Efficiency Financial Assistance\*

Financial assistance from \$750 up to \$10,000, depending on the capacity of the appliance and for models on Énergir's list of approved appliances.

## List of manufacturers

Here is a non-exhaustive list of manufacturers. Cast iron boilers may be obtained from the following suppliers:

- Buderus
- De Dietrich
- Viessmann
- Smith Cast Iron

## Selection criteria

- Thermal needs (steam or hot water)
- Equipment efficiency and performance
- Energy source available
- Space and physical constraints
- Regulations regarding maintenance and repair
- Regulatory constraints on return water temperatures

## Installation standards

Natural Gas and Propane Installation Code CAN/CSA-B149.1 in force and the manufacturer's Installation Manual.

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\* Certain conditions apply. The financial assistance is subject to change without prior notice.

These data are provided for guidance only. This Information Sheet is for general use and must not be considered advice. Please ask for assistance on the questions that concern you and do not rely only on the text in this Information Sheet.

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