



## COST ESTIMATES FOR CENTRAL HEATING SYSTEMS

How much does a warm water central heating system cost to install and run?

The price examples below are based on a 3 bedroom home with 2 living areas and 1 bathroom, approximately 150 metres<sup>2</sup> of living area (standard house size minus garage area). The approximate kilowatt heat demand for the home is 15kW. The average annual usage consumed is 12,000 kilowatt hours.

Fuel Type & Heat Source	Heat Distribution	Approx. Capital Cost (Installed)	Cost per unit of fuel	Appliance Net ** Efficiency	Cost per kWh	Cost of Delivered Heat
<b>NATURAL GAS *</b>						
Baxi Gas Boiler	Radiators	\$13,000 incl GST	\$0.065 / kWh	93%	\$0.08	\$957 / year
Baxi Gas Boiler	Underfloor OR Underfloor & Radiators	\$13,000 incl GST	\$0.065 / kWh	93%	\$0.08	\$1159 / year
Baxi Gas HT Boiler	Radiators	\$13,000 incl GST	\$0.065 / kWh	110%	\$0.07	\$785 / year
Baxi Gas HT Boiler	Underfloor OR Underfloor & Radiators	\$13,000 incl GST	\$0.065 / kWh	110%	\$0.07	\$982 / year
<b>LPG GAS</b>						
Baxi Gas Boiler	Radiators	\$13,000 incl GST	\$2.25 / kg	93%	\$0.19	\$2289 / year
Baxi Gas Boiler	Underfloor OR Underfloor & Radiators	\$13,000 incl GST	\$2.25 / kg	93%	\$0.19	\$2861 / year
Baxi Gas HT Boiler	Radiators	\$13,000 incl GST	\$2.25 / kg	110%	\$0.16	\$1939 / year
Baxi Gas HT Boiler	Underfloor OR Underfloor & Radiators	\$13,000 incl GST	\$2.25 / kg	110%	\$0.16	\$2423 / year
<b>DIESEL</b>						
Firebird Boiler	Radiators	\$16,000 incl GST	\$1.10 / litre	91%	\$0.12	\$1453 / year
Firebird Boiler	Underfloor OR Underfloor & Radiators	\$16,000 incl GST	\$1.10 / litre	91%	\$0.12	\$1816 / year
Firebird Enviromax Boiler	Radiators	\$16,000 incl GST	\$1.10 / litre	100%	\$0.11	\$1314 / year
Firebird Enviromax Boiler	Underfloor OR Underfloor & Radiators	\$16,000 incl GST	\$1.10 / litre	100%	\$0.11	\$1642 / year
<b>WOOD PELLETS</b>						
Woodpecker Boiler	Radiators	\$25,000 incl GST	\$0.45 / kg	96%	\$0.10	\$1204 / year
Woodpecker Boiler	Underfloor OR Underfloor & Radiators	\$25,000 incl GST	\$0.45 / kg	96%	\$0.10	\$1506 / year
<b>ELECTRICITY</b>						
Hot Water Heat Pump	Underfloor	\$18,000 incl GST	\$0.22/ kWh	265% (average)	\$0.08	\$1245 / year
<b>ELECTRICITY</b>						
Geothermal Heat Pump	Radiators	\$32,000 incl GST	\$0.22/ kWh	400% (average)	\$0.06	\$660 / year
Geothermal Heat Pump	Underfloor OR Underfloor & Radiators	\$30,000 incl GST	\$0.22/ kWh	400% (average)	\$0.06	\$825 / year



### Please note

- \* Natural Gas prices are based on Auckland prices of natural gas, correct at the time of printing.
- \*\* Net Efficiency as determined by European standard DIN 4702-T8

All prices and costs are to be used as a guide only. A 25% increase in fuel consumption has been allowed for in underfloor systems due to the required longer running periods and downward heat losses. Installation and component location issues can affect the approximate capital cost of installation. All heat sources have advantages and disadvantages *beyond* their capital costs and running costs. Contact Central Heating New Zealand to work out the costs relevant to your home or building project.