



Comox Valley and Duncan

Victoria

3771 Island Hwy S, Courtenay, BC V9N 9T5 O 250-871-6332 C 250-465-2044 E [gmullan@westisle.ca](mailto:gmullan@westisle.ca) W [westisle.ca](http://westisle.ca)

### 2019 HEATING COST COMPARISON

To determine the approximate **Annual Yearly Heating Cost** per NRCAN (Natural Resources Canada) for a **2,000 sq. ft. house in Victoria** multiply by **60 (GJ)** for a **1990 or newer home** or by **85 (GJ)** for a **pre-1990 home**.

#### New Equipment:

	<u>1990 or Newer Home</u>	<u>Pre-1990 Home</u>
1. Mitsubishi Ductless Heat Pump 300% Efficient	\$13.54 x 60(GJ) = \$812	\$13.54 x 85(GJ) = \$1,151
2. Mitsubishi Inverter Heat Pump 300% Efficient	\$13.54 x 60(GJ) = \$812	\$13.54 x 85(GJ) = \$1,151
3. Trane Natural Gas High Eff. Furnace 96% Eff.	\$15.11 x 60(GJ) = \$907	\$15.11 x 85(GJ) = \$1,284
4. Ductless Heat Pump w/Back Up Heat 250% Eff.	\$16.22 x 60(GJ) = \$973	\$16.22 x 85(GJ) = \$1,379
5. Ducted Heat Pump w/Back Up Heat 250% Eff.	\$16.22 x 60(GJ) = \$973	\$16.22 x 85(GJ) = \$1,379
6. Woodstove (EPA Phase II) 77% Efficient	\$16.70 x 60(GJ) = \$1,002	\$16.70 x 85(GJ) = \$1,420
7. Natural Gas Direct Vent Fireplace 75% Eff.	\$16.79 x 60(GJ) = \$1,007	\$16.79 x 85(GJ) = \$1,427
8. Wood Pellet Stove 83% Efficient	\$23.72 x 60(GJ) = \$1,423	\$23.72 x 85(GJ) = \$2,016
9. Electric Baseboards/Elec.Furnace 100% Eff.	\$40.61 x 60(GJ) = \$2,437	\$40.61 x 85(GJ) = \$3,452
10. Propane High Eff. Furnace 96% Efficient	\$43.91 x 60(GJ) = \$2,635	\$43.91 x 85(GJ) = \$3,732
11. Oil High Eff. Furnace 85% Efficient	\$45.64 x 60(GJ) = \$2,738	\$45.64 x 85(GJ) = \$3,879

The above numbers based on residential fuel costs as of February 15<sup>th</sup>, 2019 for 1 GJ (Approximately 1,000,000 BTU's) of Heat Output from least to most expensive:

1. Mitsubishi Ductless Heat Pump 300% Efficient	\$13.54
2. Mitsubishi Inverter Ducted Heat Pump 300% Efficient	\$13.54
3. Trane Natural Gas High Efficiency Furnace 96% Efficient (\$13.11 + \$2.00/GJ) (1)	\$15.11
4. Mitsubishi Ductless Heat Pump w/Back Up Heat (w/some baseboards below 0C) 250% Eff.	\$16.22
5. Trane Ducted Heat Pump w/Back Up Heat 250% Efficient	\$16.22
6. Woodstove (EPA Phase II) 77% Efficient (\$250/Cord w/tax \$280.88)	\$16.70
7. Napoleon Natural Gas Direct Vent Fireplace 75% Efficient	\$16.79
8. Wood Pellet Stove 83% Efficient (\$315/Ton w/tax \$353.90)	\$23.72
9. Electric Baseboards or Electric Furnace 100% Efficient	\$40.61
10. Trane Propane High Efficiency Furnace 96% Efficient (\$41.91 + \$2.00/GJ) (1)	\$43.91
11. Oil High Efficiency Furnace 85% Efficient (\$43.64 + \$2.00/GJ) (1)	\$45.64

#### **Energy Content and Comox Valley prices of Various Energy Sources as of February 15th, 2019:**

<u>Energy Source</u>	<u>Measurement</u>	<u>Local Energy Price</u>
Electricity	3,414 BTU/KWh	\$0.1464/KWh* - BC Hydro Tier 2
Natural Gas	947,000 BTU/GJ	\$12.59/GJ** - Fortis BC (1)
Propane	24,127 BTU/litre	\$1.025/litre*** - Superior Propane (1)
Oil	36,683 BTU/litre	\$1.437/litre*** - Ennex Fuels, Courtenay (1)
Wood Pellets	8,250 BTU/lb.	\$353.90/Ton (2,000 lbs.) - Canadian Tire (2)
Seasoned Doug Fir Cordwood	20,700,000 BTU/Cord	\$280.88/Cord - Comox Valley Craigslist (2)

\*Price includes 5% Rate Rider, Crisis Fund and GST.

\*\*Price includes Basic Charge, Delivery, Storage and Transportation Charges, Cost of Gas, Municipal Fee, Carbon Tax, Clean Energy Levy and GST.

\*\*\*Price includes Delivery, Carbon Tax and GST.

(1) Fossil Fuel Furnace Per GJ cost includes est \$120/year for 60 GJ (\$2.00 per GJ) for Hydro for the Blower.

(2) Price includes PST and GST.

The above numbers were calculated to the best of our knowledge at the time of printing and are based on approximate/average consumption. Individual equipment efficiencies and consumption will vary.