

## Eligible Improvements / Retrofits

## Grant Amounts

When replacing ANY of the equipment listed in this brochure, the new equipment must have an efficiency rating equal to or higher than that of the original equipment. The second system must be of the same type and efficiency.

HEATING SYSTEM	SINGLE-FAMILY HOME		MURB
	1 <sup>st</sup> system	2 <sup>nd</sup> system	
<p><b>Replace</b> your heating system with</p> <ul style="list-style-type: none"> <li>an ENERGY STAR<sup>®</sup> qualified gas furnace that has a 92.0 percent annual fuel utilization efficiency (AFUE) or higher</li> <li>an ENERGY STAR qualified gas furnace that has a 92.0 percent AFUE or higher and a brushless DC motor</li> <li>an ENERGY STAR qualified gas furnace that has a 94.0 percent AFUE or higher and a brushless DC motor</li> <li>an ENERGY STAR qualified gas furnace that has a 94.0 percent AFUE or higher and a brushless DC motor (when installing a condensing furnace for the first time)</li> <li>an ENERGY STAR qualified condensing gas boiler that has a 90.0 percent AFUE or higher</li> <li>an ENERGY STAR qualified oil boiler that has an 85.0 percent AFUE or higher</li> <li>an ENERGY STAR qualified oil furnace that has an 85.0 percent AFUE or higher</li> <li>an ENERGY STAR qualified oil furnace that has an 85.0 percent AFUE or higher and a brushless DC motor</li> </ul> <p>In the case of mobile homes (only)</p> <ul style="list-style-type: none"> <li>where a zero-clearance furnace is being replaced, an ENERGY STAR qualified zero-clearance gas furnace that has a 90.0 percent AFUE or higher</li> </ul>	\$375	\$190	SAME AS SINGLE-FAMILY HOME
	\$625	\$315	
	\$650	\$350	
	\$790	\$400	
	\$750	\$375	
	\$750	\$375	
	\$375	\$190	
	\$625	\$315	
	\$375	N/A	
	\$4,375	N/A	
<p><b>Install</b> an earth-energy system (ground or water source) that is compliant with CAN/CSA-C448 and certified by the Canadian GeoExchange Coalition (<a href="http://www.geo-exchange.ca">www.geo-exchange.ca</a>) – applies to a new system or a complete replacement.</p>	\$1,750	N/A	*\$1,750
<p><b>Replace</b> a heat pump unit of an existing earth-energy system (ground or water source). The system must be compliant with CAN/CSA-C448 and certified by the Canadian GeoExchange Coalition (<a href="http://www.geo-exchange.ca">www.geo-exchange.ca</a>). (*per equipment replaced)</p>	\$1,625	N/A	*\$1,625
<p><b>Replace</b> your existing space and domestic water heating equipment with an integrated mechanical system (IMS) that has an overall thermal performance factor of 0.90 or higher. The system must be compliant with the CSA P.10-07 standard and meet or exceed the standard's <i>premium</i> performance requirements. (*per equipment replaced)</p>			

N/A = Not applicable

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### HEATING SYSTEM (Cont'd)

	SINGLE-FAMILY HOME		MURB
	1 <sup>st</sup> system	2 <sup>nd</sup> system	
<b>Replace</b> your wood-burning appliance with a model that meets either CSA-B415.1-M92 or the U.S. Environmental Protection Agency (EPA) (40 CFR Part 60) wood-burning appliance standard; an indoor wood pellet-burning appliance (includes stoves, furnaces and boilers that burn corn, grain or cherry pits); or a masonry heater. (*per equipment replaced)	\$375	\$190	*\$375
<b>Replace</b> your solid fuel-fired outdoor boiler with a model that meets CAN/CSA-B415.1 or the U.S. EPA Outdoor Wood-fired Hydronic Heater (OWHH Method 28) Program, Phase 1. The capacity of the new boiler must be equal to or smaller than the capacity of the boiler being replaced.	\$375	N/A	\$375 (per building)
<b>Install</b> a minimum of 5 electronic thermostats for electric baseboard heaters. Electric baseboard heating must be the primary space heating system. (*for each set of 5 electronic thermostats)	\$40/5	N/A	*\$40
<b>Install</b> an ENERGY STAR qualified air-source heat pump for both heating and cooling that has a seasonal energy efficiency ratio (SEER) of 14.5 or higher and a minimum heating capacity of 12 000 Btu/hour. See “Important Information about Air-Source Heat Pumps and Central Air Conditioners.” (*per equipment installed)	\$500	N/A	*\$500

### Important Information about Air-Source Heat Pumps and Central Air Conditioners

In the case of **air-source heat pumps and central air conditioners**, a manufacturer’s new ENERGY STAR qualified matched condenser coil (outdoor unit comprising a condenser coil, compressor and cooling fan) and indoor evaporator coil (typically located with the furnace) must have a SEER of 14.5 or higher. Under no circumstances will the replacement of only one of these coils entitle the homeowner to a grant, just as components that are not certified by the manufacturer as being matched (i.e. tested together) will not be accepted. Currently, some manufacturers match their low SEER air conditioner/air-source heat pump coil packages with one of their brushless DC motor-equipped furnaces (i.e. blowers) as a method to reduce the power consumption requirement for ENERGY STAR compliance and labelling. However, this arrangement is not accepted under the ecoENERGY Retrofit – Homes program because NRCan already provides separate grants for furnaces that have an energy-efficient brushless DC motor.

To be ENERGY STAR qualified in Canada, in addition to the minimum requirement of SEER 14.5, **air-source heat pumps** must also have a minimum heating seasonal performance factor (HSPF) of 7.1 for Region V, which is more reflective of the Canadian climate. If the heat pump is only rated for Region IV, which is used in the United States, it must have a minimum HSPF of 8.2.

**Mini-split (ductless) air-source heat pumps** must have at least one head per floor, excluding the basement, to qualify for a grant.

In the case of **mini-split (ductless) air conditioners** that do not have at least one head per floor, excluding the basement, each head will be considered a room air conditioner and the grant amount will be reflected as such.

**When having your new central air conditioner or air-source heat pump installed**, ask the contractor to indicate on your invoice the manufacturer’s name (not the model name) of the condenser coil and the model numbers of both the new condenser and evaporator coils. Preferably, the Air-Conditioning and Refrigeration Institute (ARI) reference number should also be referenced on the invoice. The energy advisor will request to see this information when performing the post-retrofit evaluation of your home.

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### COOLING SYSTEM (Replacement Only)

	SINGLE-FAMILY HOME		MURB
	1 <sup>st</sup> system	2 <sup>nd</sup> system	
<b>Replace</b> your central air-conditioning system with an ENERGY STAR qualified system that has a SEER of 14.5 or higher (complete system replacement, including indoor coil and outdoor components). See “Important Information about Air-Source Heat Pumps and Central Air Conditioners.”	\$250	N/A	\$250 (per building)
<b>Replace</b> your window air conditioner(s) with an ENERGY STAR qualified unit(s). See “Important Information about Air-Source Heat Pumps and Central Air Conditioners.”	\$25 (per unit replaced; maximum of 5 units)	N/A	\$25 (maximum of 2 units per dwelling unit)

### VENTILATION SYSTEM (New installation or replacement)

	SINGLE-FAMILY HOME	MURB
<b>Install</b> a ventilation system that is certified by the Home Ventilating Institute (HVI) as a heat- or energy-recovery ventilator. The HVI Product Directory is available at <a href="http://www.hvi.org">www.hvi.org</a> . Click “Consumers” and “Certified Products Directory.” (*per equipment installed)	\$375	*\$375

### DOMESTIC HOT WATER SYSTEM

	SINGLE-FAMILY HOME		MURB
	1 <sup>st</sup> system	2 <sup>nd</sup> system	
<b>Install</b> a solar domestic hot water system with solar collectors that meets the CAN/CSA F378.87 standard and provides a minimum energy contribution of 6000 megajoules per year. For a list of eligible solar collectors, see the “Glazed Water Heating Solar Collectors – Flat Plate Collectors” and “Glazed Water Heating Solar Collectors – Evacuated Tube and Concentrating Collectors” sections of the “List of Accepted Solar Collectors” found at <a href="http://www.ecoaction.gc.ca/heat">www.ecoaction.gc.ca/heat</a> . (*per equipment installed)	\$1,250	N/A	*\$1,250
<b>Replace</b> your domestic hot water heater with an ENERGY STAR qualified instantaneous, gas-fired water heater that has an energy factor (EF) of 0.82 or higher and is on the ecoENERGY Retrofit – Homes list of eligible domestic hot water heaters (refer to the Web site indicated at the end of this brochure). (*per equipment replaced)	\$315	N/A	*\$315
<b>Replace</b> your domestic hot water heater with an ENERGY STAR qualified instantaneous, condensing gas-fired water heater that has an EF of 0.90 or higher and is on the ecoENERGY Retrofit – Homes list of eligible domestic hot water heaters (refer to the Web site indicated at the end of this brochure). (*per equipment replaced)	\$375	N/A	*\$375
<b>Replace</b> your domestic hot water heater with a condensing gas storage-type water heater that has a thermal efficiency of 94 percent or higher and is on the ecoENERGY Retrofit – Homes list of eligible domestic hot water heaters (refer to the Web site indicated at the end of this brochure). (*per equipment replaced)	\$375	N/A	*\$375
<b>Install</b> a drain-water heat recovery (DWHR) system. Grants are based on the efficiency of the system, determined by an independent testing facility. For a list of eligible systems and their efficiency, go to <a href="http://www.ecoaction.gc.ca/homes">www.ecoaction.gc.ca/homes</a> and refer to “Questions and Answers.” (*per equipment installed)			
• efficiency between 30.0 and 41.9 percent	\$95	N/A	*\$95
• efficiency of 42.0 percent or higher	\$165	N/A	*\$165

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**BUILDING ENVELOPE**

**When adding insulation** to the building envelope, pay special attention to the type and the placement of vapour barriers per local building codes.

For a multi-unit residential building, the grant for insulation is multiplied by the MURB MULTIPLIER shown on page 7.

**CEILING INSULATION**

**A minimum of 20 percent of the total ceiling area must be insulated to qualify.** When the roof has more than one type (i.e. attic, cathedral ceiling, flat roof), all applicable grants are pro-rated based on the ceiling area that is insulated. The **maximum grant** for any combination of attic, cathedral ceiling and flat roof is \$750. Grants listed reflect 100 percent of the ceiling area being of one roof type.

**STARTING POINT**

Increase the insulation value of	R-12 and less	Greater than R-12 and up to R-25	Greater than R-25 and up to R-35
<ul style="list-style-type: none"> <li>your attic to achieve a total minimum insulation value of RSI 7 (R-40)</li> <li>your attic to achieve a total minimum insulation value of RSI 8.8 (R-50)</li> <li>your flat roof and/or cathedral ceiling to achieve a total minimum insulation value of RSI 5 (R-28)</li> </ul>	\$500	\$250	N/A
	\$750	\$375	\$125
	\$750	\$250	N/A
Add a minimum insulation value of RSI 1.8 (R-10) to your uninsulated flat roof and/or cathedral ceiling and qualify for a grant of \$500.			

**EXTERIOR WALL INSULATION**

**MINIMUM ADDITIONAL INSULATION**

	Percent area	R-3.8 to R-9	Greater than R-9
A minimum of 20 percent of the total exterior wall area must be insulated to qualify. The grant is based on the percentage of wall area that is insulated and does not include walls between individual dwelling units. See “Important Note about Semi-Detached and Row Houses.”	20%	\$225	\$375
	40%	\$450	\$750
	60%	\$675	\$1,125
	80%	\$900	\$1,500
	100%	\$1,125	\$1,875

**EXPOSED FLOOR INSULATION (overhangs and floors above an unheated space, excluding crawl spaces)**

<b>Insulate</b> your entire exposed floor and increase its insulation value by a minimum of RSI 3.5 (R-20). A minimum floor area of 14 square metres (150 square feet) must be insulated to qualify.	\$190
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**FOUNDATION INSULATION**

*When both a basement and crawl space are present, all applicable grants are pro-rated to a maximum of \$1,250 based on the total wall area that is insulated.*

**BASEMENT INSULATION**

**MINIMUM ADDITIONAL INSULATION**

A minimum of 20 percent of the foundation’s wall area (including basement and crawl space walls, when applicable) must be insulated to qualify. The grant is based on the percentage of wall area that is insulated and does not include walls between individual dwelling units. See “Important Note about Semi-Detached and Row Houses.”	<b>Percent area</b>	<b>R-10 to R-23</b>	<b>Greater than R-23</b>
	20%	\$125	\$250
	40%	\$250	\$500
	60%	\$375	\$750
	80%	\$500	\$1,000
	100%	\$625	\$1,250

**BASEMENT HEADER INSULATION**

**MINIMUM ADDITIONAL INSULATION**

<b>Seal and insulate</b> your entire basement header area, increasing its insulation value by a minimum of RSI 3.5 (R-20)	<b>R-20</b>
	\$125

**CRAWL SPACE INSULATION**

**MINIMUM ADDITIONAL INSULATION**

<b>Insulate</b> 100 percent of the crawl space’s total exterior wall area, including the header area. See “Important Note about Semi-Detached and Row Houses.” <b>Or</b> Insulate 100 percent of the floor above the crawl space to increase its insulation value by a minimum of RSI 4.2 (R-24).	<b>R-10 to R-23</b>	<b>Greater than R-23</b>
	\$500	\$1,000
	N/A	\$250

**IMPORTANT NOTE ABOUT SEMI-DETACHED AND ROW HOUSES**

*In the case of a semi-detached or row house that is an end unit, the grant amount for the insulation of exterior walls, basement or crawl space walls is 75 percent of the amounts shown. In the case of a row house that is a middle unit, the grant amount is 50 percent of the amounts shown.*

**AIR SEALING**

**SINGLE-FAMILY HOME**

<b>Perform</b> air sealing to improve the air-tightness of your home to achieve the air change rate indicated in your ecoENERGY Retrofit – Homes report.	\$190	
BONUS: If you reach 10 or 20 percent better than the target included in your report, you can obtain an additional grant.	10%	\$120
	20%	\$240

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