

The Manitoba Geothermal Energy Incentive Program

***Additional Information- Qualifying Equipment/Property**

- 1 -

Find below specific qualifying equipment/property for the Manitoba Geothermal Energy Incentive Program:

EQUIPMENT DESIGNED TO INTERFACE WITH OTHER HEATING EQUIPMENT:

FORCED-AIR DISTRIBUTION SYSTEMS:

QUALIFIED forced-air distribution system equipment includes:

- Internal acoustical insulated supply plenum;
- Internal acoustical insulated return air elbow and drop duct; and
- Flexible connectors between the heat pump and duct system.

UNQUALIFIED forced-air distribution system equipment includes:

- Other equipment that distributes heated air including other duct components and the takeoff runs

HYDRONIC DISTRIBUTION SYSTEMS:

QUALIFIED hydronic system equipment includes:

- A mass tank (see hot water storage tank within the energy storage equipment category), a circulating pump connecting the heat pump to the mass tank and connecting pipe and fittings between the heat pump and the mass tank.

UNQUALIFIED hydronic system equipment includes:

- Equipment which distributes heated water in a building from the point of the mass tank including radiant floor piping, fan coils, radiators, distribution pumps, headers, expansion tank(s), air purgers, make-up water equipment, circulating fluid including antifreeze, etc.

ELECTRICAL EQUIPMENT:

QUALIFIED electrical equipment:

- The circuit breaker, the wiring from the electrical panel to the heat pump(s) and the disconnect switch which the serves the heat pump; and which are required to only provide electricity to the geothermal heat pump.

UNQUALIFIED electrical equipment:

- Installation of an electrical panel which serves the building and its various electrical load requirements including appliances; and which is part of a building.

Continued....

The Manitoba Geothermal Energy Incentive Program

*Additional Information- Qualifying Equipment/Property

- 2 -

ENERGY STORAGE EQUIPMENT:

Hot Water Storage Tank Equipment:

QUALIFIED hot water storage tank equipment:

- A hot water storage tank that is installed to serve as energy storage equipment and which will be used primarily for heating an actively circulated liquid for the purpose of space heating and is part of a ground source heat pump system. For example, a hot water tank which serves as energy storage equipment related to a hydronic hot water heating system and which is part of a geothermal/ground source heat pump system.

UNQUALIFIED hot water tank equipment:

- A hot water tank that is installed to primarily heat water for the supply of “domestic hot water requirements”.

DEFINITIONS:

Definition of a Heat Pump:

A geothermal heat pump is a device or system that operates on a mechanical vapour compression refrigeration cycle to transfer earth energy between the refrigerant and a liquid and/or air.

Definition of a Geothermal Heat Pump System:

A geothermal heat pump system is viewed as a complete heating and cooling system consisting of an extended range geothermal heat pump, an auxiliary/supplementary heat source where required as per CSA C448 system sizing (excludes redundant or back up equipment); and an earth energy exchange loop (closed loop or open loop) along with pumping.

***NOTICE:** The above information is designed to assist a claimant with determining their qualified property for the Manitoba Geothermal Energy Incentive Program. Where the above information in this document does not correspond to the governing legislation and regulation including the program terms of the Manitoba Geothermal Energy Incentive Program, the latter prevails.