

Wood Pellet Boiler

Ft. Gary & Ridgeview Apartments

System Overview:

In 2008 Northern Properties installed a BINDER 740 kW Wood Pellet Boiler at their Ft. Gary and Ridgeview apartment facility. The system has a Grain MAX storage silo which is used to store the pellets required to fuel the boiler. The unit can hold up to 46 tonnes of storage capacity.

The boiler and wood pellet storage silo are located in the tree covered area between apartment buildings. The boiler's shipping container casing has been covered in siding that matches the apartment buildings which the boiler heats.



Commercial Pellet Boiler at Ft. Gary & Ridgeview Apartments

The BINDER boiler provides approximately 95% of heat to the 94 apartments at the location. The performance data below was estimated based on performance data averages for similar systems in the Northwest Territories.

Performance Data:

The Binder 740kW wood pellet boiler performance data is as follows;

Boiler Rated Output:	740 kW (2,500 MBH)
Equivalent Annual Oil Amount:	145,000L*
Current Annual Pellet Usage:	282 tonnes*
Potential Annual Savings¹:	\$98,000*
Annual GHG Reduction:	380 tonnes CO₂^{eq*}

The reduction in GHG emissions is equivalent to removing 70 midsize passenger vehicles from the roads.

¹ Estimation based on current cost of heating oil and bulk wood pellets.

* All values are estimations based on average pellet boiler data for the Northwest Territories.