

THE HEARTLAND 500



ESTIMATED ANNUAL ENERGY CONSUMPTION

MODELLING RESULTS	ESTIMATED ANNUAL ENERGY CONSUMPTION	Primary Space Heating (MJ)	8331
		Secondary Space Heating (MJ)	2541
Primary DHW Heating (MJ)	17,505		
HRV or ERV and Fans (MJ)	3415		
Air Conditioner (MJ)	937		
TOTAL ENERGY CONSUMPTION (GJ)		58.4	
ESTIMATED ANNUAL ENERGY COST		\$1,248	
Est. Natural Gas Consumption (m3)		-	
Est. Electricity Consumption (kWh)		16,209	
MODELLING INPUTS	ESTIMATED ANNUAL ENERGY CONSUMPTION	Ceiling Below Attic	Effective R59.22
		Walls Above Grade (exterior)	"Effective R24.15 (Logix Pro ICF)"
		Slab-on-grade with an Integral Footing	Effective R21.12
		Windows & Sliding Glass Doors (W/m ² •K)	U-Value: 0.63
		Airtightness	"< 1.56 ACH @ Pa (Assumed - No Air Test Required)"
	HVAC	Ventilation	60% SRE
		Secondary Space Heating Equipment	Electric Resistance (backup)
		Primary Space Heating & Space Cooling Equipment	ASHP (3.31 HEAT COP/ 3.85 COOL COP)
	DHW	Water Heater	0.84 EF (electric)

NOTES

1. ci = continuous insulation.
2. o.c. = on-centre.
3. Modelling is based on C1 prescriptive package from SB-12 in the 2012 Ontario Building Code.

4. Modelling was completed utilizing HOT2000 v11.9.
5. Imperial U-values and R-values have been noted in this table.
6. Estimated operating cost is based on an average of the Ontario off-peak, mid-peak, and on-peak electricity rates.

7. This is a model only and is provided for illustration purposes only. Actual energy consumption will vary depending on lifestyle, location, orientation, air tightness detailing, and any number of factors.