



CARAPACE[®]

Case Study - 2008

Location Info:

Nearest City/Town: Carnarvon, ON
 Latitude: 45°02'43"N
 Longitude: 78°41'53"W
 Elevation (above sea level): 1,090'

Lake Info:

Lake Bed: Sand
 Obstructions: None
 4' water depth: 110' from shoreline
 10' water depth: 150' from shoreline
 20' water depth: 170' -180' from shoreline

Property Info:

Elevation (above lake level): 30' – 40'
 Terrain: Rock
 Shoreline: Rock

Product Info:

Product: **CARAPACE[®]**, 1" Rural (ID controlled), 240 volt, 5w@50°F
 System Length: 270' (90' on land, 180' into the lake)
 Pipe Insulation on land: Yes (90')
 Pipe Insulation in lake: None
 Ground Coverage: None (could not bury)
 Thermostat: Yes
 Thermostat Setting: 50°F (10°C)
 Sensor Location: 45' from building on pipe under insulation (coldest spot)

Test Results:

CARAPACE[®] was powered on Nov 10'07.
CARAPACE[®] was shut down on April 25'08
 70 Days of Recorded Temperatures from Nov 10'07 to April 25'08
 Coldest Recorded Temperature: -27.4°F (-33°C)
 Warmest Recorded Temperature: 48.2°F (9°C)
 Average Temperature: 17.7°F (-8°C)
 Kilowatt usage: 1,821 kw/h
 Price per kw/h (April 2008): \$0.05
 Cost for entire **CARAPACE[®]** operation: \$91.05

Disclaimer:

Energy consumption will change depending on product selection, application, location and climate.
 This case study should be used as an example only.



FOR MORE INFORMATION

Contact a Heat-Line[®] technical specialist:
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