**ENERGY AND FINANCIAL ANALYSIS**
**Comparative Analysis: Geoexchange Heating and Cooling**

Prepared for: Mr. and Mrs. Jones
Address: 123 Main Street
Bowral NSW 2576

PRICES BASED ON CONCEPT DESIGN ONLY

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### SCENARIO 1

<table>
<thead>
<tr>
<th>Conditioned Area</th>
<th>Heating Peak</th>
<th>Cooling Peak</th>
</tr>
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<tbody>
<tr>
<td>250 m²</td>
<td>15 kW</td>
<td>15 kW</td>
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</tbody>
</table>

**Pool Heating:** No

**Geo Heating Capacity:** 15 kW

**Geo Cooling Capacity:** 15 kW

**Ground Heat Exchanger**
- Horizontal

**Geo Heating and Cooling**
- 7 Series

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### GEOEXCHANGE

**7 Series**

**Versus**

**CONVENTIONAL**
- Ducted Reverse Cycle AC

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**APPROXIMATE CAPITAL EXPENSE**

- **GEOEXCHANGE:** $41,484 installed
- **CONVENTIONAL:** $19,980 installed

**OPERATING COST OVER 20-YEARS**

- **GEOEXCHANGE:** $101,278
- **CONVENTIONAL:** $230,330

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**FIRST YEAR OPERATIONAL COSTS ($)**

- **GEOEXCHANGE:** $3,157
- **CONVENTIONAL:** $7,294

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Heating</th>
<th>Cooling</th>
<th>Replacement</th>
<th>Maintenance</th>
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</thead>
<tbody>
<tr>
<td>GEOEXCHANGE</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>CONVENTIONAL</td>
<td>✔️</td>
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**Cash Flow** - Payback when Purchased with Existing Capital = 4.8 Years

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**FIRST YEAR COST WHEN FINANCED WITH 20-YEAR TERM AT 6.0%**

- **GEOEXCHANGE:** $6,773
- **CONVENTIONAL:** $9,036

**FIRST YEAR SAVINGS WITH FINANCED**

- **GEOEXCHANGE =** $2,262
GEOEXCHANGE SYSTEM DESIGN ASSUMPTIONS & BENEFITS

Design Assumptions

- Electricity Rate: $0.32/kWhr
- Natural gas rate: $0.022/MJ
- LPG gas rate: $1.36/L
- *Includes 5% annual energy inflation and conventional equipment replacement cost
- Conventional replacement cost calculated yearly for replacement in year 12
- Conventional DHW calculation is based on a heat pump hot water heater
- Geo Supplementary DHW calculation is based on a heat pump hot water heater

Energy Savings

WaterFurnace units deliver 3 to 4 units of energy for every 1 unit of energy consumed. Many homeowners experience energy savings from 30% to 70% over other ordinary heating and cooling systems.

Cost Effective

Because of the extraordinary efficiency of a WaterFurnace system, any added investment related to installing a geothermal unit is usually more than offset by your energy savings.

Comfort

You’ll experience consistent, precise temperature control without the hot blasts of air associated with gas furnaces or the cold blow of a ducted split.

ADDITIONAL BENEFITS OF A GEOEXCHANGE SYSTEM:

- Maintenance Cost Reduced by Approximately 60%
- Environmentally Friendly
- Premium Occupant Comfort
- No External Equipment (improves aesthetics and eliminates noisy outdoor equipment)
- Increased Property Value and Compelling Marketing Feature when Selling in the Future
- Longer System Life:
  - 50+ Year Life Expectancy of Ground Heat Exchanger
  - 25 Year Life Expectancy of Geo Equipment vs. 10-15 Year Life Expectancy of Conventional Equipment

Call us on 02 8404 4193, visit our website at www.geoexchange.com.au or contact your local dealer.