**NON-RESIDENTIAL SEPTIC SYSTEM CALCULATIONS**

**PUMP SIZING**

<table>
<thead>
<tr>
<th>Field Flow</th>
<th>Minimal System Head &amp; GPM PUMP SELECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.3 gpm</td>
<td>Performance Curve of Selected Pump</td>
</tr>
<tr>
<td></td>
<td>Specifications of Pump Selected</td>
</tr>
<tr>
<td></td>
<td>ORENCO PF SERIES PF100712</td>
</tr>
<tr>
<td></td>
<td>240 VOLTS/1 HORSEPOWER/1 PHASE</td>
</tr>
</tbody>
</table>

**PUMP SYSTEM WORKSHEET**

- Designer (REHS or RCE) __________ srhartsell, rehs 5979
- Number of bedrooms: __________ Total square footage of living space: __________
- Septic tank size: __________
- Installed drainfield: __________
- Elevation of treatment inlet: __________
- Elevation of pump off: __________
- Total lift (Ft Head): __________
- Diameter of tight line: __________
- Length of tight line from pump to upper drainfield: __________
- No. of fittings: __________
- Pipe Length Equivalent (ft): __________
- Total Pipe Equivalent (ft): __________
- Fractional loss in pipes and fittings: __________
- Required Pump Size: __________
- Pump Model: __________

**Pump Specifications**

- Field flow and pump calculations for drip system - design spreadsheets from Geoflow
- Pump performance curve for drip system - Orenco Systems, Inc
- Pump specifications for equalization tank pump - Orenco Systems, Inc
- Equalization tank pump specifications from Goulds

**FRICION LOSS IN PVC FITTINGS**

The table lists head fricition loss in PVC pipe fittings as a measure of the amount of friction in an estimated length of straight pipe.