Overview
The NC Alpha provides the low-clog performance of a field erected splash-fill tower with the convenience and value of the factory assembled NC cooling tower.

Primary Benefits
• Enhanced Low-Clog Performance — for dirty water applications
• Faster Turnaround — up to 50% lead time reduction and quick quotes helps to fit outage schedules
• Lower Installation Costs — up to 80% cost reduction
• Low Maintenance Costs — typical of an NC

Benefit Detail
Low-Clog Performance:
• Splash fill allows for better low-clog performance minimizing fill replacement frequency, downtime costs and other expenses relative to film fill
• Heavy 235 galvanized or stainless steel structures are stronger, lighter and more fire resistant compared to pressure-treated wood towers

Faster Turnaround:
• Shorter quoting time than field erected towers
• Significantly reduced lead times compared to field erected towers
• Improved ability to fit installation into an outage schedule reducing downtime costs

Lower Installation Cost:
• Easy-fit maintenance options for quick installation
• Total installation time reduced by 80%
• Factory assembly provides one shipment with minimal lay down area requirements
• Integral collection basin eliminates the cost for a concrete basin

<table>
<thead>
<tr>
<th></th>
<th>NC Alpha</th>
<th>field erected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quoting</td>
<td>1-2 hours</td>
<td>5-7 days</td>
</tr>
<tr>
<td>Lead Time</td>
<td>8 weeks*</td>
<td>16 weeks</td>
</tr>
<tr>
<td>*starting July 1, 2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>NC Alpha</th>
<th>field erected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Time</td>
<td>2-3 days</td>
<td>2-3 weeks</td>
</tr>
<tr>
<td>Shipments</td>
<td>1</td>
<td>6+</td>
</tr>
<tr>
<td>Lay Down Area</td>
<td>1 x Tower</td>
<td>3 x Tower</td>
</tr>
</tbody>
</table>
Benefit Detail

Low Maintenance:
- Gear drive standard — 5 year no-hassle operation
- Optional stainless steel cold water basin completely factory welded and leak free
- A full line of Marley controls and VFD options are available for superior energy management and complete tower energy control
- Rigorous structural review to minimize tower vibration, even with use of a VFD
- Assembled with as much as 71% recycled content

<table>
<thead>
<tr>
<th>No-Hassle System 5 Geareducer*</th>
<th>belt drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Maintenance</td>
<td>$624</td>
</tr>
<tr>
<td></td>
<td>$2,380</td>
</tr>
<tr>
<td>5 Year Maintenance</td>
<td>$4,270</td>
</tr>
<tr>
<td></td>
<td>$11,900</td>
</tr>
<tr>
<td>example savings</td>
<td>$7,630</td>
</tr>
</tbody>
</table>

Common Applications
- Particulate carry over — often found in steel mills and cement plants
- Pulp carry over — typical in the paper industry and food processing where vacuum pumps or barometric condensers are used
- Ethylene glycol content
- Geothermal applications
- Salt water applications
- Petrochemical applications
- Phosphoric acid applications
- Fluorine applications

GPM Range
290 to 2700 GPM per cell

Features
- Highest thermal performance low-clog PVC splash fill offered by Marley
- Crossflow design, vertical air discharge
- Non-corrosive stainless or galvanized steel structure
- Induced draft — single fan per cell
- Factory assembled — easy installation
- Low sound fan, standard
- Marley System 5 Geareducer
- Optional welded stainless steel water collection basin
- VFD — allows maximum efficiency
- Belt drive available on all models up to 60hp
- Marley coupling specifically designed for variable torque VFD applications