

## 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 G235 galvanized or stainless steel structures are stronger, lighter and more fire resistant compared to pressure-treated wood towers

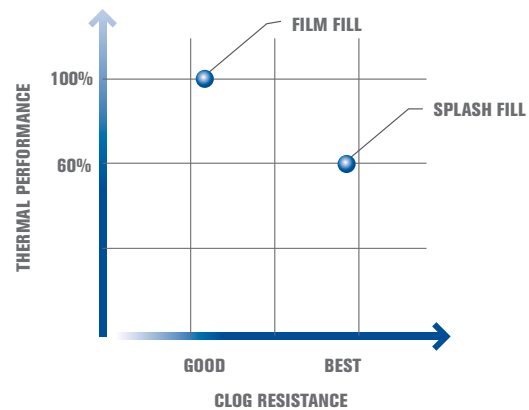
### Faster Turnaround:

- 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

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	NC Alpha	field erected
Quoting	1-2 hours	5-7 days
Lead Time	8 weeks*	16 weeks

\*starting July 1, 2010

	NC Alpha	field erected
Installation Time	2-3 days	2-3 weeks
Shipments	1	6+
Lay Down Area	1 x Tower	3 x Tower

## 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

No-Hassle System 5 Geareducer*		belt drive
Annual Maintenance	\$624	\$2,380
5 Year Maintenance	\$4,270	\$11,900
example savings	\$7,630	

## 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

## Flow 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 cold 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

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