MARLEY®

NC® cooling tower insight

Overview

Marley's flagship factory-assembled cooling tower, providing higher performance, fast installation and easy maintenance.

Primary Benefits

- Higher tonnage and efficiency per cell can lower energy costs up to 20%
- Up to 64% less installation time per cell, providing over $1400 savings per cell, over previous designs
- Less than half the maintenance costs for gear drives compared to belt drive systems

Benefit Detail

Higher Tonnage and Efficiency:

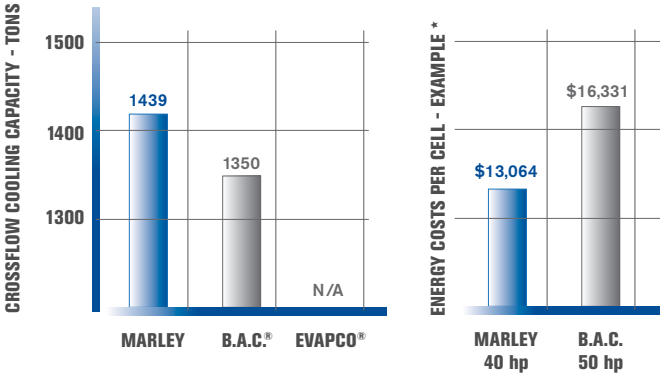
- Highest capacity package cooling tower in the market* helps to reduce the number of cells required, saving purchasing costs
- Higher efficiency design can provide up to 20% lower energy costs

Fast Installation:

- Up to 64% faster installation than previous designs provides over $1000 in savings per cell
- Quick Installation features include:
  - Factory-mounted terminal box option – provides a single location for all controls wiring
  - Quick-Install guardrails and aluminum ladders and welded aluminum safety cages options
  - Four-point support allows parallel I-beams in any direction or separate piers

more

*as of May, 2010



* assumes nameplate motor horsepower for a 610 ton cooling tower with a footprint of 250 sq ft – $0.10/kWh and 50% annual usage

field installation hours	latest design	previous design
Ladder and Guardrail	2	3
Ladder Safety Cage	.25	4
Fan Cylinder	0	1
Access Platform	5	7
Factory Installed Terminal Box	4	16
total	**11.25**	**31**
based on $75/hour, savings per tower cell would be over $1,480		

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Benefit Detail

Easy Maintenance:

- Gear drive standard – 5 year no-hassle operation
- Integral louvers and eliminators provide water containment and freezing prevention compared to blade louvers used by other manufacturers
- Bolted and/or welded basins stop leaks better than tap screwed connections used by other manufacturers
- Large access doors and a flat fan deck designed as a walking surface makes tower service checks easier

Special Design Considerations

- ASHRAE® Std. 90.1 compliant
- Full set of design options:
  - CTI Certified sound options including attenuation and/or Ultra Quiet fan
  - Splash fill for dirty water applications - NC alpha
  - Plume abatement - NCWD
  - Marley controls and VFD options for superior energy management
- 3D configuration specific drawings provided with quotes and orders
- FM Approval option on every model including FRP fan cylinder and PVC inlet piping

Capacity Range

101 to 1439 tons per cell at 95°/85°/78°F

303 to 4307 gpm per cell hydraulic limit

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

Technical Features

- Induced draft, crossflow design with vertical air discharge
- Non-corrosive stainless steel or galvanized structure with bolted galvanized or welded stainless steel cold water basin
- TEFC motor, low sound fan standard
- Drift rates as low as 0.0005%
- Belt drive available on all models up to 60 hp
- Assembled with as much as 71% recycled content

Common Applications

HVAC

- Mission critical data centers, hospitals and health treatment facilities, commercial buildings, schools and colleges

Industrial

- Chemical, fertilizer, grain processing, ethanol production, metals, mining, oil refining, textiles and steel production

Power Generation

- Turbine inlet cooling, jacket cooling and trim cooling during peak heat load

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