

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



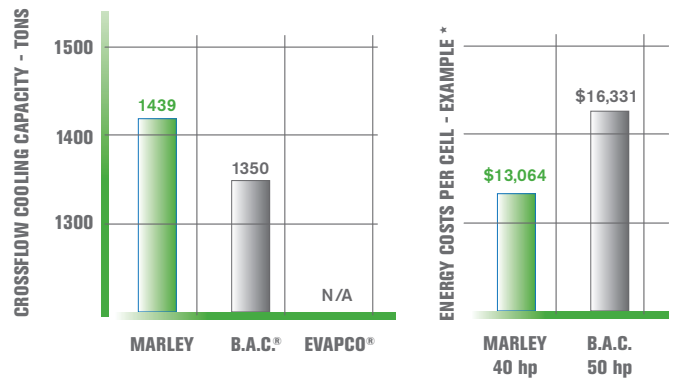
Benefit Detail

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



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

<i>field installation hours</i>	<i>latest design</i>	<i>previous design</i>
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
<i>based on \$75/hour, savings per tower cell would be over \$1,480</i>		

*as of May, 2010

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 Geareducer®		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 0.001%
- Belt drive available on all models up to 60hp
- 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

