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Tower Tech vs. Conventional



Tower Tech Modular Cooling Towers have a superior design which delivers better cost efficiency, lowest life-cycle costs, highest quality construction and industry-leading sustainability.

COMPARISON CHART PROPERTIES

Feature	Conventional Counterflow	Conventional Crossflow	Tower Tech Counterflow	
WATER CONSUMPTION				1
Typical Drift Emission	0.002%	0.002%	0.0004%	Saves
Typical Interaction by Water Types:				Water
TSE/RO Friendly	Less	Less	Yes	
Sea Water Friendly	No	No	Yes	
Impact of Increased COC	Poor	Poor	Good	
Reduced Evaporation % at Part-Load	No	No	Yes	
WATER TREATMENT				
Chemical Consumption	Standard	Standard	30-40% Less	Saves
Dirt and Sand Entrapment	Reduced	High	Ultra Low	Chemicals
Algae Growth Potential	High	High	None	
Risk for Legionella	Elevated	Elevated	Near Zero	
ENERGY CONSUMPTION				
Typical Pump Head	15-35′	18-35'	13′	Saves
Typical Installed Fan HP	Standard	Standard	0-50% Higher	Energy
Actual Fan Energy Consumed	Standard	Standard	15-50% Lower	
Total Annual Energy Consumed	Standard	Standard	25-45% Lower	
AESTHETICS				
Plume	Typical	Typical	Reduced	Looks
Open Louvers	Yes	Yes	No	Better
Rotating Equipment Location	Тор	Тор	Below (Hidden)	
Noise:				
Fan	Competitive	Competitive	Competitive	
Water	Standard	Standard	Near Zero	
Hidden Behind Parapet Wall	Usually	Usually	Rarely	

COMPARISON CHART PROPERTIES

Feature	Conventional Counterflow	Conventional Crossflow	Tower Tech Counterflow
WARRANTY & LIFE EXPECTANCY			
Typical Warranty Terms:			
Internal Components	5 Years	5 Years	5 Years
Structure	5 Years	5 Years	15 Years
Typical Life Expectancy:			
Internal Components	5-10 Years	5-10 Years	12-15 Years
Structure	5-20 Years	5-20 Years	35+ Years
MAINTENANCE & RELIABILITY			
Built-in Redundancy	None	None	High/Fan Wall
Inspection & Maintenance Frequency:			
Nozzles	Quarterly	Monthly	Semi-Annually
Basins	Quarterly	Monthly	Annually
Fill Media	Semi-Annually	Quarterly	Annually
Check Gearbox Oil	Monthly	Monthly	N/A
Change Gearbox Oil	Semi-Annually	Semi-Annually	N/A
Driveshaft	Semi-Annually	Semi-Annually	N/A
Ease of Inspection & Maintenance	Low	Low	High
Worker Safety	Reduced	Reduced	High
CAP-EX COST			
Total Installed Equipment Cost:			
Galvanized Metal/Thin FRP	Low	Low	35-100% More
All Stainless Steel	Competitive	Competitive	Competitive
Pultruded FRP	Competitive	Competitive	Competitive
Weight/Structural Requirements:			
Factory Assembled	Competitive	Competitive	Competitive
Field Erected	Standard	Standard	50% Less
Installation Time	Days/1000 TR	Days/1000 TR	1 Hr/1000 TR
Parapet Wall Cost	Standard	Standard	None/50% Less
Space Required	Standard	Standard	Flexible
Typical Need for N+1	Frequent	Frequent	No
LIFE CYCLE COST			
Structural Replacement in 25 Years	1 to 3	1 to 3	0
Typical ROI	N/A	N/A	0-3 Years
Life Cycle Modeling Software by Mfgr	No	No	Yes



Longer Life







