

DRIVEN BY POSSIBILITY

THERMALPRO ELECTRIC WATER PUMPS



Our ThermalPro electric water pumps are expertly engineered to maximize fluid flow in a compact design while being energy efficient and reliable.

ELEVATE THE POWER, REDEFINE THE LIMITS

From the early days in thermal management, we have always been a step ahead - leading the charge to keep critical systems running.



FEATURES AND BENEFITS

- High-efficiency cooling: Maximizes coolant flow, reducing energy consumption and operational costs
- Improved cooling density: Effectively manages greater heat transfer in compact environments
- Modular and scalable: Adapts to various Coolant Distribution Unit configurations
- Detection capability: Monitors for systems issues such as cavitation, air bubbles, or blockages

LEGACY OF LEADERSHIP

Gates has a rich history of innovation in thermal management, beginning with automotive cooling systems and extending to industrial HVAC systems. This experience has positioned the company at the forefront of maintaining critical systems. With over a century of expertise, Gates has now adapted its advanced thermal management solutions to address the complexities of data center cooling systems. This evolution reflects our commitment to staying ahead of industry demands and ensuring optimal performance in critical environments.



ELECTRIC WATER PUMP PRODUCT FAMILY							
SINGLE PHASE RADIAL	FLUX MOTOR	THREE PHASE RADIAL FLUX MO	TOR THREE PHA	SE AXIAL FLUX MOTOR			
LOW POWER < 30W		MID POWER 30W - 100W	HIGH P	HIGH POWER 100W - 2500W			
FLOW RATES UP TO ~20 L/MIN		FLOW RATES UP TO ~35 L/MIN	FLOW R/	FLOW RATES UP TO ~400L/MIN			
FEATURES AND BENEFITS							
SCALABILITY Effortless adaptability to diverse data center configurations	LEAK-PROOF DESIG Offers long-term reliabil intentionally eliminating and failure points	SN INTEGRATED MONITORING Provides real-time feedback, enabling proactive maintenance and boosting system uptime	REDUCED NOISE LEVELS It reduces typical vibrations and mechanical friction, ensuring a quieter environment	EASY TO INSTALL Its small body and light weight make it easy to integrate into complex cooling systems			

A COMPLETE SOLUTION FOR LIQUID COOLING SYSTEMS

*	LIMITED AND CONSTRAINED PACKAGING SPACE TO GET HIGH COOLANT FLOW	Gates ThermalPro pumps overcome this challenge with its compact design, thanks to innovative axial flux technology. This design enables a "flat" packaging with a remarkable R ³ power increase, fitting seamlessly into tight spaces while delivering high coolant flow.
	COOLING SYSTEM VULNERABILITY TO SYSTEM FAILURES*	Our product is equipped with integrated monitoring that keeps a vigilant eye on potential issues. By detecting air bubbles, blockages, cavitation, and low coolant levels early on, it triggers system-level alerts to address problems before they escalate, safeguarding the cooling system's efficiency and reliability.
	NEEDS FOR IMPROVED ENERGY EFFICIENCY	To enhance energy efficiency, our ThermalPro axial flux designs reduce air gaps in the motor and optimizes every watt of power for maximum performance. This clever design reduces friction and energy consumption, ensuring that every watt of power is effectively used for optimal coolant flow.
	RELIABILITY CONCERNS DUE TO COOLANT LEAKAGE	Addressing these concerns, the ThermalPro features a mechanical seal that separates the wet and dry sides of the pump. This robust solution prevents leakage, ensuring consistent and reliable operation.
	DESIGN REQUIREMENTS TO ELIMINATE LEAK POINTS	Our design isolates weep holes. This innovative approach removes potential leak points, enhancing the pump's overall reliability and reducing maintenance needs.
	COMPATIBILITY IN HIGH VOLTAGE SYSTEMS	ThermalPro electric water pumps are engineered to be versatile, offering solutions to serve systems operating between 12v to 800v. This adaptability ensures that they integrate seamlessly into various high voltage applications, meeting diverse cooling needs with ease.
	COMPATIBILITY WITH MULTIPLE COOLANT TYPES	The full product lineup is compatible with all glycol-based coolants and dielectric coolants. In addition, these pumps can perform in immersive cooling environments when used with dielectric coolant types.

*Not available on all models.



CLICK OR SCAN TO EXPLORE MORE DATA CENTER COOLING SYSTEMS

ASK YOUR GATES REPRESENTATIVE FOR MORE INFORMATION

