

EMP

POWERING THE FUTURE™

TK 1 THERMAL KIT

COOLING NEEDS?

- Engine Overheating
- Limited Cooling Capacity
- Auxiliary Systems Thermal Control

COOLING SOLUTIONS?

- Ideal for All Engines that Overheat or Have a High Cooling Duty Fan Cycle
- Compact, Single-Fan Supplemental Cooler
- Flexible, Integrated Mounting
- Remote, Mounted Controller
- 2 Year Limited Warranty



TK 1 THERMAL KIT



MARKETS

- On-Highway • Off-Highway
- Specialty

SIMPLY THE BEST THERMAL SYSTEM ON THE MARKET

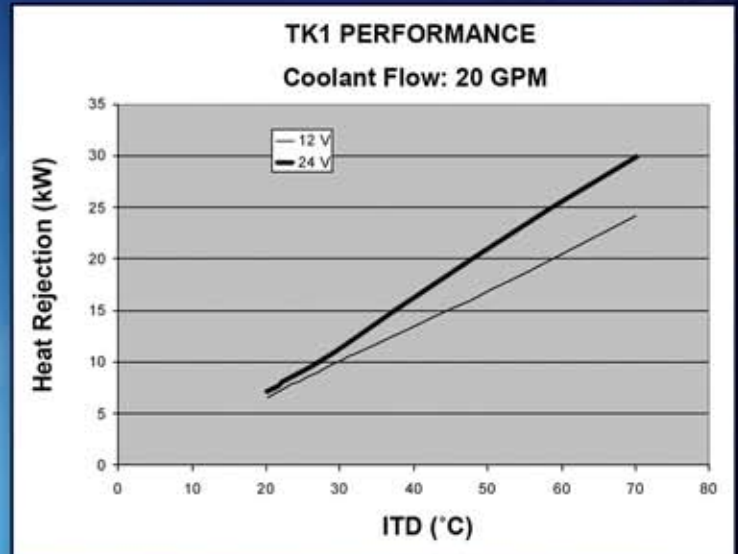
COOLING SOLUTIONS FOR TODAY & TOMORROW



emp-corp.com | productinfo@emp-corp.com | (906) 789-7497

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2701 N. 30th Street
Escanaba, MI 49829



BASE KIT INCLUDES
(1) F-11 Electric Fan
(1) CM20 Controller
(1) High Performance Aluminum Core Radiator

BASE KIT OPTIONS
WP29 Electric Water Pump
Installation Kit
Self Controlling Unit
CM20 Controller
Fluid Temp Sensor
Wiring Harness
Degas Bottle

PRODUCT APPLICATIONS
Auxiliary Engine Cooling
Electronics Cooling

ITD = Desired Coolant Temp — Ambient Air Temp
i.e. Desired Coolant Temp of 98° C (208° F)
Ambient Air Temp 38° C (100° F)
ITD = 98-38=60° C (108° F)
Heat Rejection 12 V = 21 kW
Heat Rejection 24 V = 26 kW

BASE KIT FEATURES
Fully Controllable or Single Speed
Increase Efficiency; Improve Packaging
Fan Reversibility to Clean Debris
12 / 24 VDC
Long Life, Brushless, Sensorless Motors
Robust Design
CAN Communication Optional
Uses Standard 1" Hose

KIT SPECIFICATIONS
Voltage: 12 /24 VDC
Size: 17"H x 14"W x 6"D
Typical Coolant Flow: 10 - 20 GPM

TK1 COMPONENTS



**F-11
ELECTRIC FAN**



**CM20
CONTROLLER**



**WP29 WATER
PUMP (OPTIONAL)**