



IDLE ARMOR

CUT THE IDLE KEEP THE COOL



MADE IN THE USA



***An Idle Reduction Tool for
Heavy Construction & Off Highway Market***

Reduce Your Vehicle Maintenance Interval

It is estimated that construction tractors idle from 20-40% of the engine hours.

Current systems have recorded an initial idle reduction of 60% giving an approximate cost savings of at least \$50 per hr.

These savings are instant and substantial.



Realize Your Idle Reduction Goals

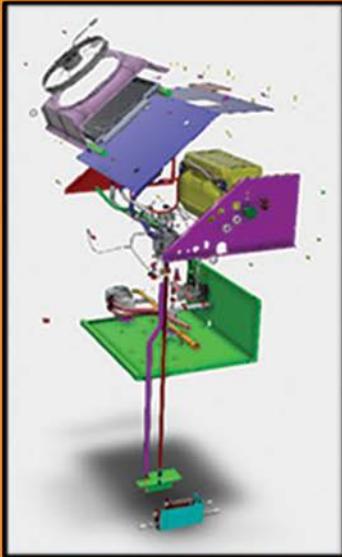
- Reduce wear & tear on vehicles
- Reduce overall maintenance costs associated with long idle times
 - Reduce overall fuel usage
 - Adds to secondary resale value of vehicle
- Maintain a comfortable cabin for the operator



Telematic Upgradeable

- Solid state batteries post telematics via CAN communication. The battery systems are CAN and bluetooth capable, for instant access to battery function, state of charge, temperature, and amp draw. System status (discharge/charge/idle) allow for telematics to be recorded and utilized for calculating real-time annual CARBON EMISSION SAVINGS. The data gives solid real-time verifiable documentation of annual carbon footprint savings.

- Realize your company's Carbon footprint reduction goals.



Hydronic Heater Integration Upgradeable

- Hydronic heating helps to maintain vehicle efficiency, by keeping engine systems warm in cold weather as well as maintaining cabin temperatures. Fuel usage for hydronic heating is .1gal/hr to .6gal/hr (.026gal/hr to .15gal/hr)

- APU engages heat by monitoring vehicle systems. APU engages the hydronic systems for heat as soon as the vehicle shuts down, disengaging system as soon as the vehicle starts up again.

Battery Technology

- Life PO4 (Lithium Iron Phosphate) battery technology. Upgradable CAN-bus/RS485 Smart BMS with auto cell balancing, dual internal Fire Extinguisher. 200 amp/hr. battery life. CE declaration of conformity 5-year limited warranty on battery.

- Battery gives up to 4 hours of run-time between charges.

Two Mounting Configurations with Provided Footprint for Easy Install

Idle Armor provides the footprint for mounting locations, hoses, and controls inside dash that tie to the system.

Not all OEM hoses have the same styles.

Identify AC hose manufacture and then proceed to add the fittings into the kit. Idle Armor has been focusing primarily on EZ clip systems as they are more geared towards installs in the field.



Pros of the Idle Armor Tool

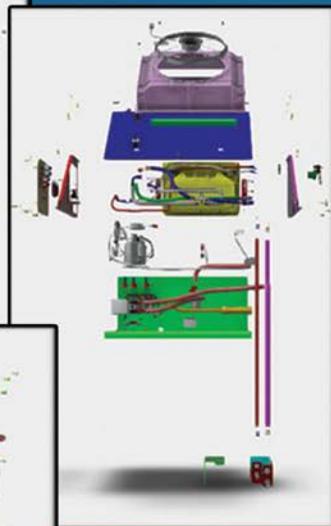
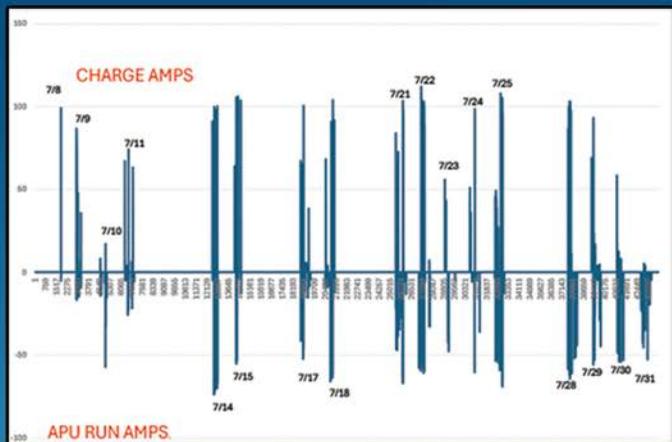
- **Save Money Daily**
- **Increase re-sale value of your equipment**



- **Decrease your company's carbon footprint**
- **Keep your employee happy, productive, and working for you even when they are idle.**



Realtime Telematic Data



IDLE ARMOR
CUT THE IDLE, KEEP THE COOL





IDLE ARMOR

CUT THE IDLE, KEEP THE COOL

308-762-2975



Perrin Manufacturing, LLC
5610 Perkins Road
Alliance, Ne 69301

www.perrinmfg.com