

AIR INTAKE HEATERS

**Integrated engine system
for reliable cold starts and
emissions post heat**

BENEFITS

- Fast and reliable starts in cold weather
- Uses 5-10 times less battery power than cold cranking engines
- Durable, life of engine alternative to glow plugs and ether cylinders
- Improve post start engine warm up, reducing stress on emission system
- Application specific solution engineered to engine requirements

WHERE TO USE

OEM engines used in:

- Truck
- Power generators
- Tractor
- Construction equipment
- Marine
- Agriculture
- Forestry



SPECIFICATIONS

- 12 or 24 VDC
- Wattage is designed to application requirements
- Preheat operation: Combustion air is preheated to the temperature needed for fuel ignition during cold starts.
- Post-heat operation: The heater is energized after starting to increase combustion temperature to reduce stress on emission system and hydrocarbon emissions
- Engineered with OEMs to integrate with the engines ECM control and control relay

SOLID STATE RELAY CONTROLLER

Provide advanced diagnostics and eliminate mechanical failures.

Pair the current or quick start air intake heater with the PTI Solid State Relay Controller (SSRC) for a complete and reliable solution for pre & post engine heating.

FEATURES

- Electric current ratings up to 400A at 12V or 200A at 24V
- Fast switching speeds
- Low stand-by power consumption
- Long Life
- Small size
- Shock and vibration resistance
- Short circuit protection

BENEFITS

- Avoid relay mechanical-failure modes such as sticking, contact wear or permanent welding of contacts
- High speed starting when paired with fast start air intake heater
- Diagnostic feedback – Controller area network and discrete logic control used to manage performance and operation
- Post start heater control

For additional information, please contact sales@phillipsandtemro.com