

NEED POWER?



HIPOWER™ DIESEL GENERATORS WINTER PACKAGE !!

HIPOWER™ engineering team has developed a number of options when dependable power is required operating at temperatures as low as -60°F.

Our rental grade Diesel Generator line offers a reliable, quiet and dependable source of energy that is always available at the most rugged conditions.

The basic factory installed winter package comprises:

- * Thermostat activated louvers.
- * Shutter actuator.
- * Hydronic coolant heaters.
- * Control panel box heaters.
- * Block heaters.

The **thermostat activated louver** systems offer a tight shut off for excellent weather protection with rugged galvanized steel construction for long operating life with standard mill finish or baked enamel.

The **shutter actuator** is a thermostatic activated brushless DC motor with

electronic stall protection. The system will open and close louvers at the cooling pack regulating the optimum operating temperature inside the generator enclosure.

The **hydronic coolant heater** works independently of the engine and Spar's engine Pre-heaters can get your Diesel Generator up and running without Idling reducing expensive downtime and eliminating "white smoke". These heaters raise the temperature of engine's coolant gradually, assuring an even heating of the engine block.

By lapping directly into the fuel and power supply of the vehicle they avoid the need for external hook ups - so they operate no matter where the Generator set is. Warm starts reduce engine stress and wear and reduce battery demand with a pre-heater you will have smooth starts every time.



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No more coughing and sputtering the engine when trying to start it. This means increased fuel efficiency and a cleaner environment. The Hydronic 5 are ideal for engine sizes up to 600 cubic inches, these heaters can raise the engine temperature 100°F in one hour while consuming only a minimum of fuel.

The Hydronic is connected to the engine's cooling system. With a minimum amp draw and a low fuel draw the heater is ignited via a glow pin, a flame is established and the glow pin shuts off. The heater maintains this flame until manually or automatically being shut off. A water pump circulates the water over the heat exchanger and heats the coolant. The hot coolant then flows through the engine and vehicle's heat exchanger. The small size of these pre-heaters enables them to fit nicely and neatly under the hood of the vehicle. All major components, such as the electronic control unit, water and fuel pumps and all safety sensors are all integrated within the Hydronic to minimize size and installation time.

The control panel heaters are designed to provide enclosed electronic, pneumatic, hydraulic and mechanical equipment with protection from low temperatures, condensation and corrosion.

The PTC (Positive Temperature Coefficient) heater unit maintains a stable temperature environment within enclosures, allowing critical components to perform with consistent reliability for longer periods.

Heating power adjusts to ambient temperature and Push connectors for quick and easy wiring.

The tank style engine block heaters maintain an engine's operating temperature during downtime and serve as an excellent cold weather or emergency starting aid while eliminating needless idling. Hotstart heaters meet heating requirements for a wide range of engine sizes and applications. Designed to circulate heated coolant through the entire engine block, Hotstart engine heaters provide even heat distribution resulting in reduced engine wear, quick start-ups and reduced emissions.



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TECHNOLOGY

