FORCED FLOW CIRCULATION HEATER

Zerostart®

Temro®

The Forced Flow Circulation Heater circulates warm coolant throughout the engine to provide even heat distribution.

BENEFITS

Heat Performance and Distribution:

- Uniform heat distribution
  - Reduces wear from cold spots
  - Improves startability
- Ensures generator is at optimal starting temperature and ready to accept load
- Durable pump with non-magnetic impeller that does not attract metal debris
- Robust die cast aluminum housing improves sealing of the hoses, eliminates leaking and breakage
- Corrosion resistant steel brackets for superior strength and durability
- Reduces thermal stress on coolant hoses
- Element designed for long life with maximum heat transfer
- IP44 Ingress Protection Rating
- No evaporation of coolant from hoses
- Reduces low coolant level alarms because coolant does not boil

2700W, 240V

1500W, 120V

FEATURES

- Die cast aluminum housing
- Nonmagnetic impeller
- Corrosion resistant steel brackets
- Thermostatically controlled and protected
- 6' (1.8m) cord

WHERE TO USE

Diesel or natural gaseous genset application

Toll-Free: 800-328-6108
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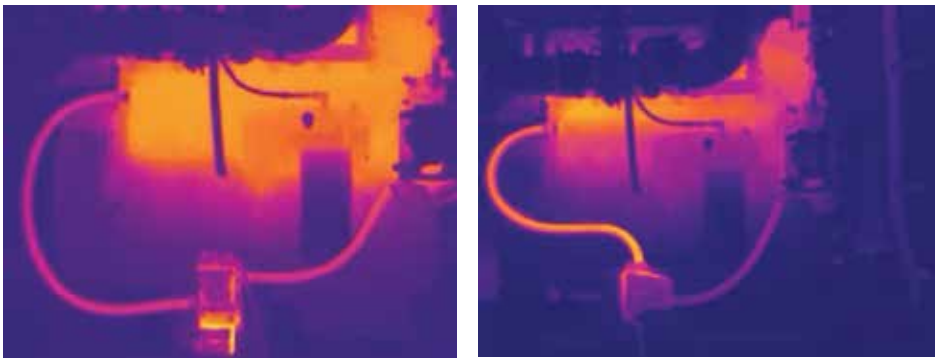
PHILLIPS & TEMRO industries®

FORCED FLOW CIRCULATION HEATER

WHY IS THE FORCED FLOW CIRCULATION HEATER PREFERRED OVER THE THERMOSIPHON HEATER?

The Forced Flow heater disperses heat evenly and warms the engine quicker.

POWER GENERATION HEATER COMPARISON

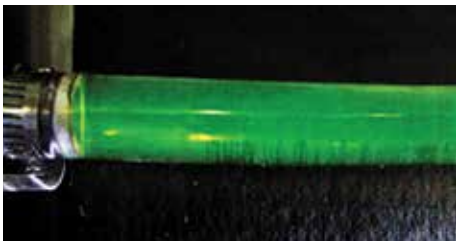


1.5 Hours Run Time

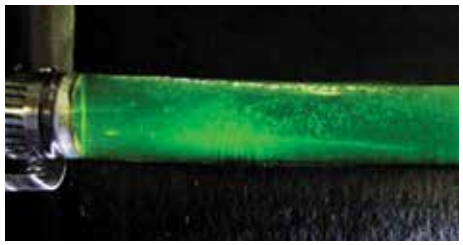
- The Forced Flow Circulation Heater achieves significant heat distribution in half the time of thermosiphon heaters
- Forced Flow heater achieves even heat distribution throughout the engine, reducing cold spots
- Reduced hose temperature on the Forced Flow heater increases hose life
- Eliminates coolant boiling

Note: 9L engine, 1500W heater, 120V, 32°F

Forced Flow Circulation Heater Coolant



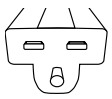
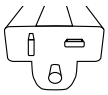
Thermosiphon Circulation Heater Coolant



- The Forced Flow Circulation Heater significantly reduces boiling coolant, unlike thermosiphon heaters
- Forced Flow heaters reduce low coolant alarms, resulting in fewer service calls

Note: 10 minute test at 72°F

PLUG CONFIGURATIONS

(B)	(C)
240 Volt 15 Amp	120 Volt 20 Amp
	
NEMA 6-15P	NEMA 5-20P

FORCED FLOW CIRCULATION HEATER PRODUCT INFORMATION

Part No.	Outlet Location	Watts	Volts	Amps	Regulating Thermostat	Safety Thermostat	Heater Hose Connections	Service Kit	Plug Type
3309020	Right	1500	120	12.5	On 80°F (26°C) Off 125°F (51°C)	210°F (98°C)	5/8" (16mm)	3309026	C
3309021	Left	1500	120	12.5	On 80°F (26°C) Off 125°F (51°C)	210°F (98°C)	5/8" (16mm)	3309027	C
3309024	Right	2700	240	11.25	On 90°F (32°C) Off 115°F (46°C)	210°F (98°C)	5/8" (16mm)	3309028	B
3309025	Left	2700	240	11.25	On 90°F (32°C) Off 115°F (46°C)	210°F (98°C)	5/8" (16mm)	3309029	B

Product Dimension: L: 8-1/2" (22cm W: 4-13/16" (12.2cm) H: 10' (25.4cm) *Including bracket

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