

UL LISTED TPS ENGINE HEATER

TEKSAN use HOTSTART UL Listed engine jacket water heaters. TPS heater uses thermosiphon action – the natural expansion and rising action of a heated fluid – to circulate heated coolant throughout an engine’s water jacket. With no moving parts, thermosiphon heaters require little maintenance.

Depend on consistent, reliable heating with the proven design of the TPS thermosiphon heater. Heated coolant rises through the engine block, maintaining critical fluid temperatures for easy engine starts when needed..

Thermosiphon Engine Heaters

TPS Model Single Phase

500–2000 Watts



TPS Heater System			
Phase	Single Phase	Fluid Type	Water / Coolant Mix
Voltage	120V	Heat Power	0.5kW / 1kW / 1.5kW / 1.8kW
Ingress	IP41	Temp. Control	100-120 °F (38-49 °C), fixed
Min/Max Ambient Temp	-40/40 °C (-40/104 °F)	Max Pressure	90 psi (620 kPa)
Certification	UL-C/US recognized	Inlet / Outlet	0.625" hose barb (15.9mm)

Heater damage: When mixing coolant, only use deionized or distilled water and low-silicate antifreeze. Refer to your engine’s manufacturer recommendations. Do not exceed 60% antifreeze to 40% water ratio. **Never add unmixed water and antifreeze to an engine.** Do not add anti-leak or other coolant additives.

Electrical hazard: **Before wiring, servicing or cleaning the heating system, turn off the power** and follow your organization’s lockout and tagout procedure. Failure to do so could allow others to turn on the power unexpectedly, resulting in harmful or fatal electrical shock.

Personal injury: **Ensure isolation valves are open before energizing heater.** Obstructed flow may result in an unexpected release of heated coolant, potentially causing serious injury.

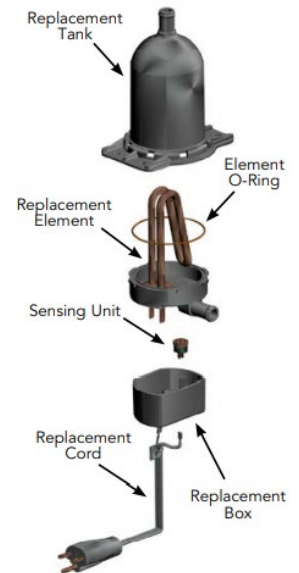
The lowest expected temperature of your engine’s location is an important factor. Engines that are located indoors, in climate-controlled environments or in locations where the lowest temperature remains above 0 °F (-18 °C) will require less heating power to maintain an optimal starting temperature. Engines that are located outdoors in locations where the lowest temperature falls below 0 °F (-18 °C) will require more heating power to maintain an optimal starting temperature

Based on your engine location and lowest expected ambient temperature, use the following equations to calculate the minimum wattage requirement of your heater.

- If your engine location’s temperature will remain above 0 °F (-18°C):  $183 \times$  [your engine’s liter displacement] = your heater’s wattage requirement.
- If your engine location’s temperature will fall below 0 °F (-18°C):  $305 \times$  [your engine’s liter displacement] = your heater’s wattage requirement.

TEKSAN jacket water heaters are selected based on lowest temperature remains above 0 °F (-18 °C). Please consult with factory for options.

Thermosiphon Engine Heaters



Genset Model	Engine Model	Power Supply				Heating System	
		V	∅	Hz	kW	A	TPS Model
TJUD9P	403D-11G	120V	1	60Hz	0.5	4.2	TPS051GT10-000
TJUD13PL	403D-15G	120V	1	60Hz	0.5	4.2	TPS051GT10-000
TJUD20PL	404D-22G	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD25PL	404D-22TG	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD28PL	404D-22TG	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD30PL	404D-22TAG	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD50PL	1104D-44TG1	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD55PL	1104D-44TG1	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD60PL	1104D-E44TG1	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD65PL	1104D-E44TG1	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD80PL	1104D-E44TAG1	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD100PL	1104D-E44TAG2	120V	1	60Hz	1	8.4	TPS101GT10-000
TJUD125PL	1106D-E70TAG2	120V	1	60Hz	1.5	12.5	TPS151GT10-000
TJUD150PL	1106D-E70TAG2	120V	1	60Hz	1.5	12.5	TPS151GT10-000
TJUD155PL	1106D-E70TAG3	120V	1	60Hz	1.5	12.5	TPS151GT10-000
TJUD175PL	1106D-E70TAG4	120V	1	60Hz	1.5	12.5	TPS151GT10-000
TJUD180PL	1106D-E70TAG4	120V	1	60Hz	1.5	12.5	TPS151GT10-000
TJUD200PL	1106D-E70TAG5	120V	1	60Hz	1.5	12.5	TPS151GT10-000