

UL LISTED CTM ENGINE HEATER

TEKSAN use HOTSTART UL Listed engine jacket water heaters. Hotstart’s CTM HOTflow® heating system is a coolant preheater, developed to maintain optimal temperatures for diesel and gas engines in stationary land power, marine, and construction equipment applications. HOTSTART’s HOTflow® engine heater (CTM Model) features an integrated pump that combines the benefits of forced circulation with a compact design

Despite its small footprint, efficient forced circulation allows the CTM to heat engines up to 20 liters in displacement, allowing for a wide variety of small-engine applications.

Forced circulation provides uniform heat throughout the engine, reducing component maintenance and offering significant energy savings. The CTM may reduce end-user utility costs by up to 35%.

HOTflow®
Engine Heaters

CTM Model
Single Phase

1000–2500 Watts



CTM Heater System			
Phase	Single Phase (1 Ø)	Fluid Type	Water / Coolant Mix
Voltage	120V / 240V	Heat Power	1kW / 1.5kW / 2.5kW
Ingress	IP44	Temp. Control	100-120 °F (38-49 °C), fixed
Min/Max Ambient Temp	-40/40 °C (-40/104 °F)	Flow	3.5 gpm @ 4 psi
Certification	UL-C/US recognized	Inlet / Outlet	0.625" (16mm) hose barb

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

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TEKSAN selected CTM series forced circulation jacket water heater for maximum heating performance.

The heater is designed to provide heating for engine displacements up to 20L in size. The forced circulation of the coolant provides uniform heating throughout the engine.

The heater is rated for the conditions listed in EN 601010-1:2010

- Never operate heater in air. Verify heater is full of coolant and properly plumbed.
- Check heater for proper operation at regular intervals (up to an hour) by feeling the hoses. The temperature of the engine should warm up uniformly with just a few degrees difference between heater inlet and outlet. If one of the hoses becomes warm before the entire system, the coolant may not be circulating properly.
- Risk of Electric Shock - Disconnect electrical supply before removing cover – Service to be performed by qualified personnel only.
- If replacing/reorienting element assembly or replacing the pump - drain the cooling system or close the isolation valves.

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Genset Model	Engine Model	Power Supply				Heating System	
		V	Ø	Hz	kW	A	TPS Model
TJUD250PL	1706D-E93TAG1	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD275PL	1706D-E93TAG2	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD300PL	1706D-E93TAG2	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD315PL	1706D-E93TAG2	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD350PL	2206D-E13TAG2	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD400PL	2206D-E13TAG3	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD450PL	2506C-E15TAG1	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD500PL	2506C-E15TAG3	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD525PL	2506C-E15TAG3	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD550PL	2506C-E15TAG4	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUD600PL	2806C-E18TAG3	240V	1	60Hz	2.5	10.7	CTM25210-A00
TJUL750PL	2806C-E18TTAG7	240V	1	60Hz	2.5	10.7	CTM25210-A00