

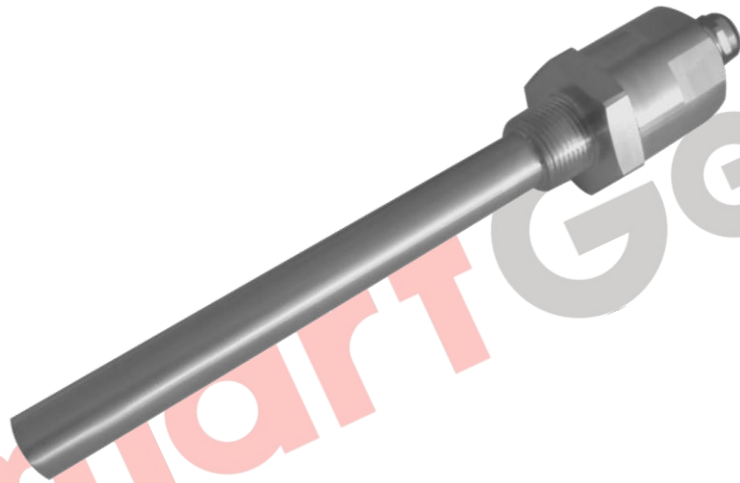


**SmartGen**  
ideas for power

**HTL04**

**ENGINE OIL HEATER**

**USER MANUAL**



SmartGen

**SMARTGEN (ZHENGZHOU) TECHNOLOGY CO., LTD.**

## 1 OVERVIEW

If during cranking the outside temperature is lower than 4°C, engine lubricant may lose its lubricating properties, which can damage the engine. Engine oil heater should be installed to ensure normal starting and running of the engine when the outside temperature is lower than 4 °C.

HTL series engine oil heater adopts cast stainless steel inner pipes and end closure with high corrosion resistance.

This product is suitable for various engine with (19~110)L engine oil volume.

Please login our company's official website to select heaters.

## 2 PERFORMANCE AND CHARACTERISTICS

- 1 Stainless steel inner pipes and end closure with high corrosion resistance and solid features;
- 2 The inner pipes have long service life with the benefit of the low power of the unit areas.
- 3 All-in-one design, compact structure and small volume.

## 3 TECHNICAL PARAMETERS

Model	HTL04		
Rated Power	400W		
Rated Voltage	AC 240V		
Rated Current	1.67A		
Engine Oil Volume (L)	19~110		
Default Thermostat	Off:50°C    On: 35°C		
Insulating Resistance	≥50MΩ		
Electrical Strength	AC 1.5kV 1min    Leakage Current≤3mA		
Installation Dimensions	Thread outer diameter range: Φ22-Φ33.5		
Max. Pressure	0.5MPa		
Protection Level	IP55		
Vibration Resistance	(5~8)Hz;	Amplitude±7.5mm;	Triaxial
	(8~500)Hz;	a=2g;	Triaxial
Shock Resistance	Half-sine Wave;	a <sub>peak</sub> =50g;	Triaxial
Case Dimensions	252.4mm×43 mm×43 mm		
Weight	500g		

## 4 CONNECTIONS

After open the back cover, please connect the wear according to the **ENL** logo when installation.

Heat resisting power line is strongly recommended.

Earth line must be soundly connected to earth.

## 5 CASE AND INSTALLATION DIMENSIONS

