

# HFW50-12V/HFW50-24V

## 燃油加热器

HYDRONIC FUEL WATER HEATER



### 简介

该装置以燃油为能源，通过燃烧的方式对发动机冷却液进行加热，能耗低，升温快，体积小、安装方便，性能可靠，适用于排量为 30L 以下的各种发动机，可应用于无交流供电的特殊场景。

### 特点

- OLED屏幕显示，参数可现场设置
- 采用燃油加热，可应用于无交流供电特殊应用场景
- 本地/远程模式切换，可远程启停控制
- 低温性能好，可工作于在-40°C低温环境下
- 三种工作模式：预热模式（单次加热）、循环模式、恒温模式
- 多种工作参数及保护参数可设，应用灵活
- 可记录累计工作时间、累计油耗等数据
- 自检功能：点火塞开路短路、风机开路、电热塞开路检测报警
- 防干烧、过热保护、故障报警输出等功能
- 单独泵油控制、试机加热等功能
- 循环水泵和加热体分开控制，可延长泵体的寿命

### Overview

The heater uses fuel as energy source and heats the engine coolant through combustion, which has the advantages of low energy consumption, fast heating, small size, convenient installation and reliable performance. It is suitable for various engines with 30L displacement below, and can be used in applications without AC power supply.

### Features

- OLED display screen, parameters can be set on site
- Heating by fuel combustion allows it to work without AC power supply
- Local/Remote mode allows it to be started or stopped remotely
- Excellent low temperature performance allows it to work normally at -40°C
- Three working modes: preheat mode, cycle mode, and constant temperature mode
- Various working parameters and protection parameters can be set for flexible applications
- Data of accumulated running time and total fuel consumption can be recorded
- Self-check function of ignition plug open or short circuit, fan open, and glow plug open
- Functions of heating without water protection, overheating protection and fault alarm output
- Functions of fuel pumping control and manual test
- The hydronic pump and heater are controlled separately to extend the life of the pump



工作参数 Operating Parameters	工作电压: HFW50-12V: DC(10~16)V HFW50-24V: DC(20~32)V	Operating Voltage: HFW50-12V: DC(10~16)V HFW50-24V: DC(20~32)V
	运行功耗: HFW50-12V: 48W HFW50-24V: 48W	Run-time Power Consumption: HFW50-12V: 48W HFW50-24V: 48W
	启动功耗: HFW50-12V: 180W HFW50-24V: 220W	Start-up Power Consumption: HFW50-12V: 180W HFW50-24V: 220W
	油耗: HFW50-12V: 0.46L/h HFW50-24V: 0.55L/h	Fuel Consumption: HFW50-12V: 0.46L/h HFW50-24V: 0.55L/h
	热流量: 5500W 燃油: 柴油	Heat Flow: 5500W Fuel: Diesel

设置参数 Setting Parameters	断开及复位温度范围: 断开点: (5~80)°C 复位点: (0~75)°C	Thermostat Range: Off: (5~80)°C On: (0~75)°C
	干烧保护温度: 水温传感器与干烧传感器温差>100°C 或者干烧传感器温度>100°C	Heating W/O Water Protection Temp: Temperature difference between water temperature sensor and heating sensor should be more than 100°C or the temperature of heating sensor is more than 100°C

环境 Environment	工作温度: (-40~+70)°C	Working Temperature: (-40~+70)°C
	贮存温度: (-40~+80)°C	Storage Temperature: (-40~+80)°C

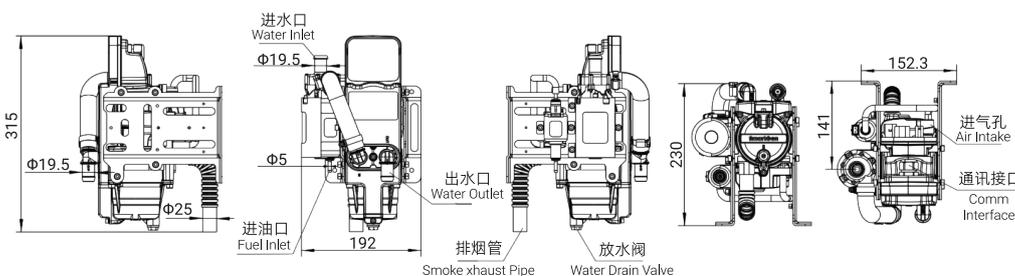
结构 Structure	进出水口尺寸: Φ19.5mm	Inlet/Outlet Size: Φ19.5mm
	水泵流速: 扬程1.5米时17L/min	Pump Flow Rate: 17L/min @ 1.5m Head
	最大水压: 0.5MPa	Max. Water Pressure: 0.5MPa
	外形尺寸: 315 × 192 × 230mm	Overall Dimensions: 315 × 192 × 230mm

标准和认证 Standards & Certificates	振动: (5~8)Hz: ±17mm (8~100)Hz: 4g, (100~500)Hz: 2g IEC 60068-2-6	Vibration : (5~8)Hz: ±17mm (8~100)Hz: 4g, (100~500)Hz: 2g (IEC 60068-2-6)
	冲击: 50g <sub>n</sub> , 11ms, 半正弦 IEC 60068-2-27	Shock: 50g <sub>n</sub> , 11ms, half-sine (IEC 60068-2-27)

● 尺寸 Dimensions

单位(Unit): mm

● 端口 Ports



直流电源B+B- DC Power	开关量输入 (1) Digital Input (1)	开关量输出 (1) Digital Output (1)
RS485		