

RK 22616-01 & RK 22616-02

Bowl Kits With Fuel Heaters

Instruction Part Number 14390 Rev A



Overview:

A Racor in-bowl fuel heater is a critical filter component for cold weather operation. An electric relay allows a switch to control the heater operation. The fuel heater turns on when fuel temperature drops below 45°F (7°C), and off when fuel temperature reaches 85°F (29°C).

During operation, the in-bowl heater provides convective heat directly to the surface of the filter to melt clogging paraffin wax crystals and allow the fuel to flow.

In-bowl heater and relay kits are available in 12 and 24 volt DC configurations. These kits are used to preheat the filter by turning the ignition switch to the accessory position and waiting a minimum of 5 minutes before starting the engine. After the engine starts in extreme cold weather, full power may not be available until warm re-circulated fuel returns to the fuel tank.



Contact Information: Product Features:

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- 12 and 24 volt DC Bowl Heaters
- 200 Watt
- Internal Thermostat (Temperature Controlled)
- Rugged and Reliable
- Bowl Fits Racor 400, 600, and 700 Series Assemblies
- May Require a Relay Kit



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Specifications	RK 22616-01	RK 22616-02
Volts DC	12	24
Watts	200	200
Min. Service Clearance	2.0 in. (5.1 cm)	2.0 in. (5.1 cm)
Weight (dry)	0.4 lbs (0.18 kg)	0.4 lbs (0.18 kg)
Max. Working Pressure	30 PSI (2.1 bar)	30 PSI (2.1 bar)
Internal Thermostat	off @ 85°F (29°C) on @ 45°F (7°C)	off @ 85°F (29°C) on @ 45°F (7°C)
Max Temperature Rating	250°F (121°C)	
Note: Not for use in gasoline applications.		

Optional Heater Relay Kits

The following relay kits may be necessary when installing Racor bowl heater kits due to power demand. Standard OE fuses,

wiring, and alternators may be unable to carry the load without overheating or shorting, creating a serious condition.

Wire/terminal connections should be soldered and crimped.



Specifications	RK 11861	RK 11862
Volts DC	12	24
Watts	200	200
Height	1.3 in. (3.3 cm)	1.3 in. (3.3 cm)
Width	1.1 in. (2.8 cm)	1.1 in. (2.8 cm)
Depth	1.6 in. (4.1 cm)	1.6 in. (4.1 cm)
Weight	0.3 lb (0.14 kg)	0.3 lb (0.14 kg)

Installation Guidelines

The following customer supplied materials should be on hand before beginning installation.

1. Because of the heater power demand, 20 amps for the 12 vdc and 10 amps for the 24 vdc, an additional relay is recommended for the safest method of installation. Racor offers two relay kits, available from your dealer, RK 11861 for the 12 vdc systems or RK 11862 for the 24 vdc systems. These kits include an in-line

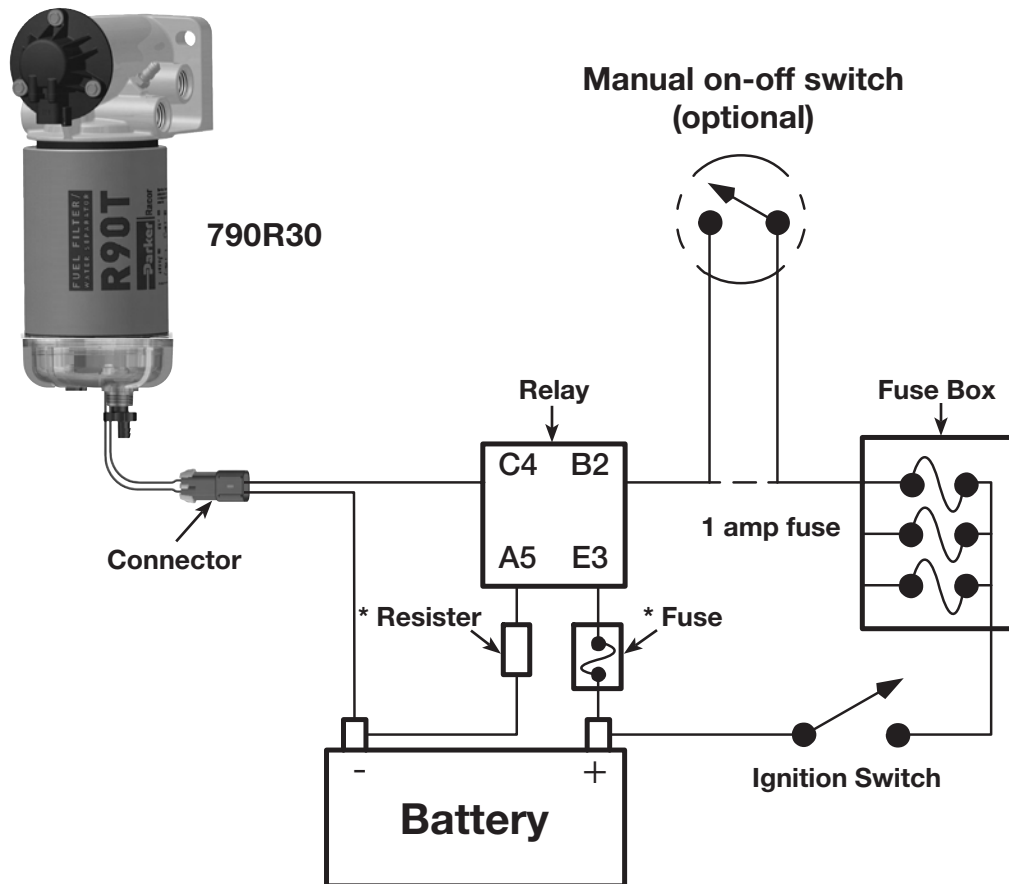
fuse holder (and fuse) and the RK 11862 kit also includes a resistor. Use the 25 amp fuse with the 12 vdc and the 15 amp fuse (and resistor) with the 24 vdc systems.

2. An on-off toggle switch may be used to control power to heater relay. This allows the operator to cut power to heater relay during summer.
3. All wires should be 14 AWG (American Wire Gauge), minimum.

Installation:

1. Either heater wire may be used for Hot (+) or Ground (-).
2. Wire/terminal connections should be soldered and crimped.
3. Run wires in protected locations. Avoid hot surfaces and places that could pinch or rub on wires.

Mounting Instructions



* Use the 15 amp fuse and resistor with 24 vdc systems.

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