# REZNOR®

## *Waste Oil Heater*

(140-500 MBH)

### Multiple Cost Savings

Heating Costs
Oil Disposal Fees

### Engineered for Reliability

Self Adjusting
Fuel Delivery System

# Why Reznor

"We have had Reznor® Waste Oil Heaters installed in every location as we have grown.... Reznor is the only Waste Oil Heater we use."
*Bob Vance, Executive Vice President*
*Saturn of Columbus, Ohio*

Photo: Joe Hemphill of J.W.H. Phoenix Unlimited, Inc.

## Innovation

Innovation is nothing new for Reznor Heaters. Since 1888, when George Reznor invented the reflector type gas heater, Reznor has set the standard for gas and oil heating systems and now waste oil heaters.

## Waste Oil = Free Heat

Burning waste oil for energy recovery is a great concept that also eliminates the concern of disposal. Unfortunately, waste oil is an inconsistent fuel that is difficult to burn reliably. Waste oil heaters in the past have required daily cleaning and have been unreliable, but still many of them have been sold. There is no doubt that a waste oil heater is the ideal way to convert a potential liability into free heat.

## Problems

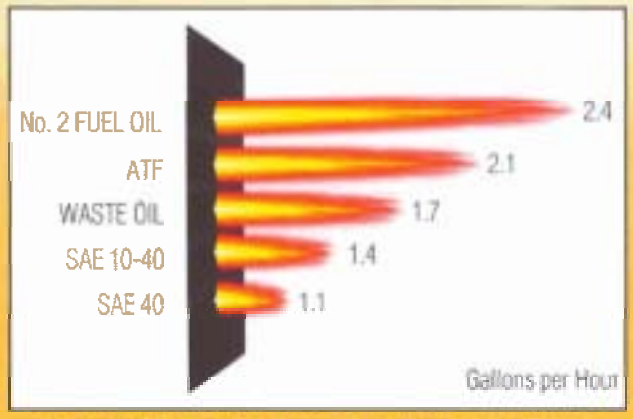
Other products rely on manual controls for oil and air pressure on the unit to compensate for the inevitable viscosity changes as different types of waste oil are added to the fuel tank. For proper performance you must continually check and adjust these pressure controls to assure the correct firing rate. A truly reliable waste oil heater doesn't require daily attention.

## Solution

The engineering staff at Reznor developed a flow control pump that automatically delivers the correct amount of oil and assures complete combustion without adjustments for viscosities ranging from #2 fuel oil through 50 weight waste oil. This system completely eliminates manual user adjustments. There are no manual controls to adjust the fuel flow rate. Others manufacturers have copied our system but Reznor was the first to perfect this system and include it as standard equipment on all production models.

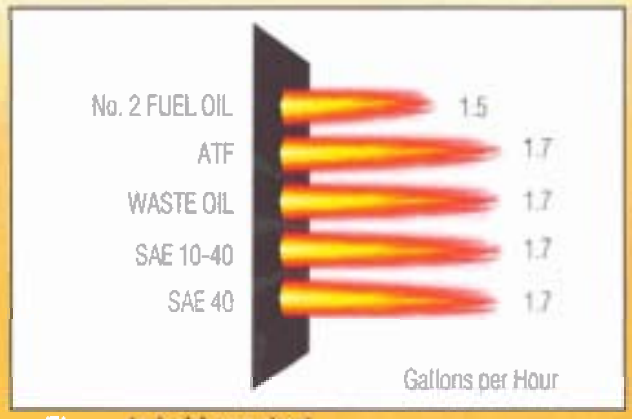
The Reznor® Waste Oil Heater sets new standards for reliable, trouble-free service.

**The Problem With Other Brands**




**Different flow rates cause a heater to over fire or under fire.**

**The Reznor System**




**Flow rate held constant.**

## Industry's Best Warranty

The Reznor® Waste Oil Heater Combustion Chamber & Heat Exchanger carries the industry's strongest warranty - 10 years. This is 5 years at 100% and gradual pro-rating to the tenth year. Other makers have only 3 years at 100% coverage with a drastic reduction in percentage covered for the remaining years. Reznor makes the best and stands behind its products. All warranties aren't the same, ask to read the fine print.

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# Features

## Combustion Chamber/Heat Exchanger Assembly

The Reznor Waste Oil Heater combustion chamber has been designed for quick access.

- Makes removal of the ash easy in the Reznor Waste Oil Heater for peak efficiency & long life.

The combustion chamber is placed above the heat exchanger, which forces a downward draft and prevents the natural tendency of the flame to rise.

- This maintains even temperatures throughout the combustion chamber walls and prevents thermal stress and cracking (Long Life).

A. All flames have a natural tendency to rise.
B. The design of the Reznor Used Oil Heater forces the downward draft.
C. The result is a horizontal flame and even temperature on the chamber walls.

## Flow Control Pump

- The flow control pump is standard equipment. This pump provides trouble-free, reliable operation in a UL approved system.
  - Eliminates all the problems of continual adjustments that have to be made with other types of waste oil heaters to control flame length.

## Quiet, On-Board Air Compressor

Built-in air compressor on the burner assembly for self-sufficient, reliable, and quiet source of air, and Reznor offers it as standard Equipment

- Eliminates need for your employees spending valuable time and money adjusting the air pressure for the heater (Trouble-Free).

## Oil Pre-Heating System

- Reznor® oil warming assembly is a large aluminum cylinder which isolates the heating element from the oil itself.
  - This warms the oil slowly to prevent overheating and clogging that is typical of other brands. This means more reliable, cleaner operation for you.

## Thermally Balanced Nozzle

- The Reznor® thermally balanced nozzle design eliminates the problem of nozzle after-drip.
  - You get faster starts and clean cutoff for long life and smoother operation.

## Operating Hour Counter

The Reznor® Waste Oil heater has a timer, which automatically counts the hours of operation.

- To maintain maximum reliability and efficiency, just check the meter and clean when needed, based on the unit's actual use.

## Flexible Installation Options

- Reznor® Waste Oil Heaters can be suspended from your ceiling or mounted on the optional UL Listed Work Bench Tank. With the optional blower, the heater can also be used to duct heat to all parts of a building.
  - Your Reznor® Waste Oil Heaters are fully assembled at the factory, test fired, and shipped complete.

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# Features

## Optional Work Bench Tank

The multi-purpose 250 gallon oil tank is for use where work and storage spaces are at a premium. It serves a triple purpose: Base for the Unit Stand, Work Table and Oil Storage Tank. Furnished with an attractive enamel finish, this UL Listed Tank has toe space to provide comfortable operator working conditions. It is engineered and constructed of 12 gauge carbon steel with a durable top working surface. It has a preformed bracket for mounting the remote pump and a Wide Throat Fill Opening. This is pure convenience and portability.

## Technical Data

| BTU's Per Hour Input | | 140,000 | 235,000 | 350,000 | 500,000 |
|---|---|---|---|---|---|
| Model RA Used Oil Fired Space Heater | Height (inches) | 32 1/8 | 32 1/8 | 41 3/8 | 34 3/8 |
| | Width (inches) | 47 1/2 | 57 1/2 | 72 3/4 | 75 5/8 |
| | Depth (inches) | 37 1/8 | 38 5/8 | 45 1/4 | 61 |
| | Weight (lbs) | 340 | 405 | 685 | 925 |
| | CFM | 2,000 | 3,200 | 5,000 | 6,200 |
| | Electric (VAC) | 115V | 115V | 115V | 230V |
| | Circuit Amps | 13 | 14 | 22 | 17 |
| Model RAD Used Oil Fired Ductable Heater | Height (inches) | 32 1/8 | 32 1/8 | 41 3/8 | 34 3/8 |
| | Width (inches) | 47 1/2 | 57 1/2 | 72 3/4 | 75 5/8 |
| | Depth (inches) | 47 3/4 | 51 1/8 | 57 1/4 | 74 |
| | Weight (lbs) | 417 | 495 | 810 | 1,025 |
| | CFM | 1,425 | 2,140 | 3,500 | 4,500 |
| | Electric (VAC) | 115V | 115V | 115V | 230V |
| | Circuit Amps | UL-19/CSA14 | 24 | 29 | 20 |
| Flue Size (inches) | | 8 | 8 | 8 | 10 |
| Fuel Flow Rate (Gallons per Hour) | | 1.0 | 1.7 | 2.5 | 3.57 |
| Model OT Oil Storage Tank | Capacity | Height | Width | Depth | Weight |
| | 250 Gallons | 35 inches | 64 inches | 30 inches | 290 lbs |

## Other Products From Reznor®

(See these brochures for info on other products)

Infrared, Hydronic & Electric Heaters RZ-B-HRE

Waste Oil Boilers RZ-B-WOB

**For More Information Call 1-800-695-1901, Press 2**

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