



Convert Waste Oil to Heat!

10/24/13

*WOULDN'T IT BE GREAT
to have a warm, comfortable shop to work in
this winter, without paying for fuel?*



Dispose of all your waste oil, used engine oil, hydraulic and transmission fluid, gear oil, vegetable oil, biodiesel, and more — while heating your shop at the same time!

If you like simple things that work, you will love these heaters! Easy to build and maintain yourself; no welding required. No nozzle to plug. Easy to troubleshoot, and we stock any parts you may need in the future.

Our Burner Control: At the heart of the FreeBurn Used Oil Heating System is our Burner Control, extensively tested to burn waste oils cleanly and efficiently. Separate, precise controls for oil flow and combustion air allow you to adjust the burn rate for best performance and the heat output you want (we had to manufacture our own oil pump to get the precision we wanted!) This is one great burner that provides thorough mixing of oil vapors and combustion air, and intense heat for vaporizing the oil. The result is so clean the exhaust is smoke free!

Easy to operate! For start up, a short preheat is necessary. 1/3 cup of kerosene and a few pieces of wadded up newspaper works quite well. To clean the combustion chamber, just reach in, remove it, and use a chipping hammer or air powered chisel to clean it, after every 12 to 24 hours of use.

It'll keep you toasty! Because the Burner Control creates very clean and efficient combustion, this means there is a lot of heat available! The trick is making effective use of that heat without most of it going up the flue. You need two things: a large heating surface, and air movement to transfer heat. Our H-8012, H-8014, and H-8016 heater kits contain a large number of steel heat exchanger tubes, a baffle, and a blower to give you maximum heat from your used oil.

Turn your liability into an asset!

There are 140,000 BTU's of heat in one gallon of used oil. Why not use that potential heat to your advantage? We have sold hundreds of FreeBurn units to happy farmers and other users. Many are amazed!

If you have equipment, you have used oil. The EPA has ruled that you or your heirs are responsible for the disposal of any oil you use and any contamination that results from it. Even if you sell your property, you or your heirs will be responsible for the cleanup costs incurred. If your oil is transported offsite for disposal, and the disposing company gets slapped with a fine for contamination in the future, you will be held responsible for at least your portion, and possibly much more.

*"You have the best oil burning heater I've seen. It's simple and logical. A super system."
Pat M., Iowa*

• Easy to operate, easy to maintain, and easy to troubleshoot •

*Our Cutaway Floor Model***You won't believe the heat!**

This is a tremendous heater, costing 1/3 the price of a commercial used oil heater with the same heating capacity. And it has higher efficiency!

Easy to operate, easy to maintain, and easy to troubleshoot.

Only five electrical components. You can fix it yourself without calling a serviceman.

No filtering needed, just a screen assembly for the top of the reservoir (included in your kit). Water and antifreeze should be separated from the oil.

Our shop is a metal building with 2" insulation and 3 large doors. The shop area is 70' x 80' with a 24' ceiling. At 32 degrees outside we can maintain 70 degrees or more in the building on 3/4 gallon of used oil per hour.

Because of the high efficiency of this heater kit, if your shop is less than 2,000 square feet, we highly recommend you use the MamaBurn heater kit or you'll be baked out!

The kit includes almost everything you need: H-8010 Burner Control Package (see H-8010, page 9), Bottom Barrel Legs, Top Barrel Legs, Door Assembly, Flue Collars, Barrel End Plates, 38 heat exchanger tubes, Baffle Plate, 3-speed 1400 CFM Blower Assembly, Air Plenum to direct air through the top and bottom barrel heat exchangers, ceramic insulation blanket, 80-mesh Screen Assembly, all gasketing and hardware needed, and detailed assembly instructions.

• **You Supply:** Two 55 gallon barrels, flue pipe, and a reservoir for the used oil (we use a 30 gallon barrel).

Operation: To start, preheat the combustion chamber with 1/4 to 1/3 cup of kerosene or diesel and wadded up newspaper. This will get it hot enough for the oil to begin vaporizing and burn by itself. It will run continuously at the heat output you set with the speed control on the pump. *This heater is not thermostatically controlled and is not intended to be run unattended.*

How hard is it to assemble?

Your barrels will need the following modifications as instructed in the kit:

1. The barrel ends will need to be cut out, leaving a 1" lip around the edge on each end. The new end plates provided in the kit will be attached to the lip with screws and gasketing. The new end plates are already predrilled with holes for the heat exchanger tubes and the door is cut out.
2. A 6" flue hole in the bottom barrel and two 6" flue holes in the top barrel must be cut.
3. A 2-3/8" hole in the bottom barrel for the combustion air pipe must be cut.

The remainder of the assembly is mostly marking and drilling holes for screws and attaching the supplied parts. No welding is required.

Clear, step-by-step assembly instructions with photos are provided. 10 - 15 hour assembly time.

"I've had your heater since 1996. It's the most amazing thing I've ever seen. It's simple, efficient & the amount of heat it puts out is incredible. Body & mechanical shop 50 x 50."

J.C. Illinois

What makes an efficient heater? A lot of heating surface area and air flow!

Powerful blower fills your shop with heat!

1400 CFM Squirrel Cage Blower pushes the heated air out into your shop instead of losing it up the flue.

Maximum Heat Exchange Surface Area!

The Baffle Plate forces hot flue gas to travel the length of the top barrel twice, so the Heat Exchanger Tubes extract more heat before it goes out the flue.

38 steel heat exchanger tubes give 8356 in², or **58 ft² of surface area!** Compare this with any other used oil heaters on the market!



PapaBurn with barrel sides cut away for our display model only

PapaBurn SPECIFICATIONS

Variable Heat:	70,000 Btu to 180,000 Btu	NOT FOR INDOOR RESIDENTIAL USE.
Oil Consumption:	1/2 gallon to 1 1/4 gallon per hour	
Electrical requirements:	8 Amps, 115 VAC, 60 Hz	<i>Because it is a kit, this heater is not UL approved</i>
Approximate weight:	325 lbs (350 lbs shipping weight)	
Heating efficiency:	80 to 85%	
Assembled dimensions:	32" W x 54" L x 75" H, plus space for oil reservoir	

• 10 to 15 hours assembly time • No Welding Required • Flue size 6"

PapaBurn (H-8012A) Double Barrel Used-Oil Heater Kit **\$2495.00** plus shipping

Prices subject to change

ALSO RECOMMENDED

08043 Power Outage Control. During a power outage, the pump and blowers will not run, and the fire will go out. However, if you do not turn off the pump, it will come back on when power is restored. Since there is no fire, the oil will fill up the bottom of the heater and run out on the floor. With the Power Outage Control, when there is a power outage the oil and combustion air supplies are turned off until reset. **\$79.95**

08232 PapaBurn Top Barrel Cleaning Kit. Installation of this kit gives you the ability to quickly clean the top barrel heat exchanger tubes of any soot. It's a five minute job that maintains high efficiency of the top barrel heat exchanger, without any disassembly! Normally, with all waste oil heaters, whether it is from soot or light powdery ash, there is a progressive decrease in efficiency in the heat output from the soot or ash coating the heat exchanger surface.

As far as we know, no other waste oil heater on the market gives you this ability to maintain the heat exchanger efficiency without taking it apart. **\$275.00**

08235 PapaBurn Air Plenum Sound Insulation Package. We were very pleased with the results when we put this package into the air plenum on our PapaBurn. Includes sound insulation material and adhesive. Cuts the air noise level of the heat exchanger blower down to half or less. **\$89.95**

"Gentlemen...

Some months ago I bought one of your 8012 (PapaBurn) heater kits. I had contemplated Lanair, Cleanburn, and other 'injecter' models, but I like building things and had some barrels around. I also heard the horror stories about plugged injecters, short igniter life, etc., so I decided to buy your kit.

I had other projects in queue before the HECO heater, but I just finished it on Friday. I took a leisurely 3 days to build it right, and I am so happy with it! (Instructions were good by the way...)

My workshop, out on the cold, blustery Wyoming range, has a "fabrication/service bay" 46' x 32', with 12' sidewalls. It's got 6" insulated walls, and 6" of roll fiberglass in the ceiling, under the tin roof. I have a 175KBTU Modine LPG-fired unit in the ceiling, but it used so much LPG that I could actually see the gauge on a 500 gallon tank go down with each day's use.

Holy COW! Burning about 1/2 gallon per hour, I had to open a door! You really have assembled a wonderful kit, and I'm so glad I bought it from you. Not ONE regret do I have! Bravo to you guys at Harold Electric! Bravo!!!

Darrin F., Douglas Wyoming



**Mama is Versatile!**

The MamaBurn takes up less than 10 square feet, conserving your valuable floor space. A quiet 1100 CFM squirrel cage blower pushes hot air through 28 heat exchanger tubes and into your shop. The air plenum can be rotated to discharge the heated air in any direction. The heated air comes out close to the floor where you want it, pushed out 15 to 20 feet.

The heat can be easily ducted to another space to be heated (see the Sheet Metal Take Off option) while still heating your shop. Or, place the heater in an enclosed space outside your shop and duct the heat in, saving shop floor space.

There are 4,420 sq inches of heat exchanger surface in this heater, giving you very high heating efficiency. Compare this heating surface area and the cfm of the heat exchanger blower, and you will find they are higher than any other heater on the market.

With double rows of heat exchanger tubes there is little direct radiant heat, making the heater comfortable to work next to in a tight shop. All of the controls are

located conveniently at the front of the heater. Adjustments are easy to make while viewing the combustion through the fire inspection hole.

As in our other kits, the combination of fuel control, combustion air control, a hot combustion chamber, and turbulent mix of fuel vapors with combustion air creates very clean burning. There is no filtering required, and a screen assembly for your reservoir helps keep larger material from plugging the suction strainer. You can maintain everything in the kit yourself.

The kit includes: Burner Control Package (oil pump, combustion air pipe assembly, combustion chamber, fuel tubes, hoses); 28 pre-cut steel heat exchanger tubes, gaskets, and hardware; barrel legs; baffle; 1100 CFM Blower, shroud, and controls; top and bottom air plenums; screen assembly and suction strainer for your oil reservoir; and all hardware, hoses, and tubing needed, plus detailed assembly instructions.

You supply: 55 gallon barrel, 6" flue pipe, and a reservoir for your used oil (a 30 or 55 gallon barrel works well). The barrel will last a long time because there is no direct flame that hits the barrel.

Operation: To start, preheat the combustion chamber with 1/4 to 1/3 cup of kerosene or diesel and wadded up newspaper. This will get it hot enough so the oil will start vaporizing and burn by itself. It will run continuously at the heat output you set with the speed control on the pump. *This heater is not thermostatically controlled and is not intended to be run unattended.*

How hard is it to assemble?

Your barrel will need the following modifications as instructed in the kit:

1. Drill 28 1½" holes in top and bottom of barrel for heat exchanger tubes (a hole saw is provided).
2. Cut out a flue hole near the top of the barrel.
3. Cut out a square hole in side of barrel for a door.
4. Cut out or drill a 2" hole above the door for viewing the fire.
5. Cut out or drill a 2-3/8" hole in the top of barrel for the combustion air pipe.

The remainder of the assembly is mainly marking and drilling holes for screws and attaching the supplied parts. No welding is required.

Clear, step-by-step assembly instructions with photos are provided. 8 - 12 hour assembly time.

MamaBurn SPECIFICATIONS

Variable Heat: 70,000 Btu to 125,000 Btu

Oil Consumption: 1/2 gallon to 7/8 gallon per hour

**NOT FOR INDOOR
RESIDENTIAL USE.**

Electrical requirements: 7 Amps, 115 VAC, 60 Hz

Approximate weight: 200 lbs (225 lbs shipping weight)

*Because it is a kit, this
heater is not UL approved*

Heating efficiency: 70 to 75%

Assembled dimensions: Approximately 32" square x 62" H

• 10 to 15 hours assembly time • No Welding Required • Flue size 6"

MamaBurn (H-8014A) Vertical Used Oil Heater Kit

\$1495.00 plus shipping

Prices subject to change

ALSO RECOMMENDED

08043 Power Outage Control. During a power outage, the pump and blowers will not run, and the fire will go out. However, if you do not turn off the pump, it will come back on when power is restored. Since there is no fire, the oil will fill up the bottom of the heater and run out on the floor. With the Power Outage Control, when there is a power outage the oil and combustion air supplies are turned off until reset. **\$79.95**

OPTION

CRDF206 Sheet Metal Take Off. 6" Sheet Metal Take Off attaches to bottom air plenum to allow a 6" pipe to be run to heat another space, like an office in your shop. **\$15.00**

" I've used the waste oil burner 3 or 4 years, and found out I should have done this 25 years ago. It's a sweet heatin' machine that heats so good I have to open a door when the weather is in the 30's.

Sir I can't say enough about this burner kit, best money I have ever spent."
Roger S., Wapakoneta, Ohio



**Want to work in your garage this winter?**

The smallest member of the family is the BabyBurn, sipping oil to keep your 400 - 1,200 square feet space toasty warm.

Heated air is directed into the room from the bottom of the heater. You can rotate the discharge air plenum to blow the heated air in any direction. The oil reservoir can sit beneath the heater to conserve shop space.

Everything you need is included in this kit: 30 gallon barrel, 21 heat exchanger tubes, 450 cfm heat exchanger blower, oil pump assembly with speed control, combustion air blower, combustion chamber, air box, air plenums for top and bottom of barrel, legs, baffle plate, 6" 90 degree elbow for flue, suction strainer, gasketing, all small hardware required, and detailed assembly instructions.

• You supply: just the oil reservoir (a bucket or larger) and 6" flue pipe.

Operation: To start, preheat the combustion chamber with 1/4 to 1/3 cup of kerosene or diesel and wadded up newspaper. This will get it hot enough so the oil will start vaporizing and burn by itself. It will run continuously at the heat output you set with the speed control on the pump. Clean out the combustion chamber daily. *This heater is not thermostatically controlled and is not intended to be run unattended.*

How hard is it to assemble?

The barrel will need the following modifications as instructed in the kit:

1. Drill 21 1½" holes in top and bottom of barrel for heat exchanger tubes. A hole saw is provided.
2. Cut a flue hole near the top of the barrel.
3. Cut a square hole for the door in the side of barrel.
4. Cut or drill a 2" hole in side of barrel for the combustion air pipe.

The remainder of the assembly is mainly marking and drilling holes for screws and attaching the supplied parts. No welding is required.

Clear, step-by-step assembly instructions with pictures are provided. 8 - 12 hours assembly time.

SPECIFICATIONS

Variable Heat: 20,000 Btu to 80,000 Btu

Oil Consumption: 0.2 to 0.6 gallon per hour

Electrical requirements: 4 Amps, 115 VAC, 60 Hz

Approximate weight: 160 lbs

Heating efficiency: 75%

Assembled dimensions: 25" W x 64" H

• 8 -12 hours assembly time • No Welding Required • Flue size 6"

**NOT FOR INDOOR
RESIDENTIAL USE.**

*Because it is a kit, this
heater is not UL approved*

BabyBurn (H-8016) Used-Oil Heater Kit with new 30 gal. barrel

\$1295.00 plus shipping

Prices subject to change

ALSO RECOMMENDED

08043 Power Outage Control. During a power outage, the pump and blowers will not run, and the fire will go out. However, if you do not turn off the pump, it will come back on when power is restored. Since there is no fire, the oil will fill up the bottom of the heater and run out on the floor. With the Power Outage Control, when there is a power outage the oil and combustion air supplies are turned off until reset. **\$79.95**

FreeBurn™ H-8010 Burner Control Package

If you want to create your own heater, the H-8010 gives you the means to make an economical and clean burning used oil heater out of a barrel, large wood stove, or other enclosure. It is made to fit on a 55 gallon barrel. By modifying the length of the Combustion Air Pipe (2" black iron pipe) and fuel line (1/4" OD steel tubing), it can be made to fit other enclosures. Detailed instructions with photos show how the H-8010 mounts on a 55 gallon barrel and how it operates.

Everything in the H-8010 is made and put together in a specific way to burn used oil cleanly and safely to produce a lot of good heat. The H-8010 supplies the following to burn waste oils cleanly and efficiently:

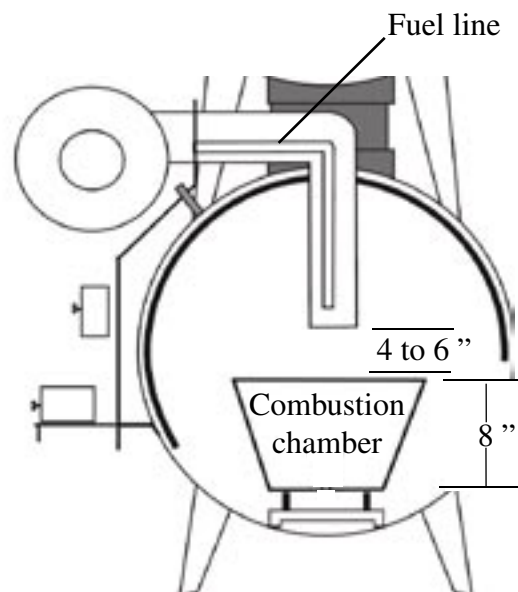
- Control flow of fuel
- Control of combustion air
- Intense heat for vaporizing oil
- Thorough mixing of oil vapors and combustion air

Because the Burner Control Package creates very clean and efficient combustion, this means there is a lot of heat available! The trick is making effective use of that heat without most of it going up the flue. You need two things: a large heating surface, and air movement to transfer heat. (Our PapaBurn, MamaBurn, and BabyBurn heater kits contain a large number of steel heat exchanger tubes, a baffle and a blower to give you the maximum heat from your used oil.)

As shown in the drawing, the Combustion Air Downpipe must be centered above the Combustion Chamber. The end of the Downpipe should be 4" to 6" above the Combustion Chamber. The length of the horizontal or vertical part of the Combustion Air Pipe can be lengthened. Also, it can be run through the side wall of the enclosure instead of coming down through the top. If the Combustion Air Pipe is run through the side wall, the fuel line will need to be changed to run through the top of Combustion Air Blower above the blower wheel to keep it inside the Combustion Air Pipe. The fuel line must be kept out of the heated area or it will coke up and stop fuel flow. We use 1/4" OD brake tubing, or 1/4" copper tubing could be used with compression fittings.

The firebox area needs to be a minimum of 16" x 16". The Combustion Chamber requires a 10" x 10" door opening. For adjusting air-fuel mixture, you need to be able to see into the Combustion Chamber to see the fire. A sight hole above the door is required if the door opening is not high enough. (A sight hole is best because there is less chance of smoke coming out, especially at startup.) When adjusting the air-fuel mixture and looking through the sight hole, you need to be able to reach the Oil Pump's speed control and the Combustion Air Blower inlet plate.

A 6" flue pipe is required and should go straight up for best draft. If the flue pipe is horizontal, make sure it is slanted up going away from the heater. The end of the flue pipe should be vertical for several feet and have a rain cap at the top.



Modifications needed to assemble H-8010 Burner Control Package onto 55 gallon barrel laying on it's side:

1. Drill or cut 2 3/8" holes in center top of the barrel for the combustion air pipe.
2. Mark and drill 8 holes for screws with large washers to hold the high-temperature ceramic blanket in place.
3. Drill 2 holes for mounting legs at the bottom of the Heat Shield Assembly

This is a manually operated system. To start, preheat the combustion chamber with a 1/4 to 1/3 cup kerosene or diesel and wadded up newspaper. This will get it hot enough so the oil will start vaporizing and burn by itself. It will run continuously at whatever heat output you set by the speed control on the pump. For the cleanest burn, clean the combustion chamber every day. *This controller is not thermostatically operated and is not intended to be run unattended.*

Included in the H-8010 kit are:

Oil Pump Assembly: Precise, consistent flow of oil is a must to have a clean burn. Gravity fed systems are very dangerous because of temperature changes in air and fuel that can create a runaway fire. (A farmer told us that he burned down his shop with a gravity fed system.) As far as we know, we make the only used oil pump assembly on the market that provides control of oil flow at the low fuel flow rates needed. The heat output of the H-8010 is controlled by the variable speed control on the pump.

Fuel Tube and Fuel Line: Special flexible fuel tubing on the oil pump, between the pump and suction filter, and between the pump and steel oil line. The reservoir (usually a 30 or 50 gallon barrel) is meant to sit within a foot of the heater. The pump is meant to be at the lowest position in the fuel tubing so it has oil there to keep it primed.

Combustion Air Blower with intake flow control plate: Combustion air pushed directly into the oil vapors is also a must for a clean burn. The plate on the air intake gives you control to match the right amount of air to the right amount of fuel. Too little or too much air will create smoke.

Combustion Air Pipe Assembly: Directs the air from the Combustion Air Blower to the Combustion Chamber. The 2” black iron pipe will last many years.

Cast Iron Combustion Chamber with Cascade Assembly: The high quality cast iron handles the high heat needed to quickly vaporize the oil. Its solid bottom allows you to use a small amount of kerosene or diesel for startup. Being round, it radiates heat towards the center to keep the oil vaporizing off the cascade assembly.

Combustion Chamber Platform: Sits in the bottom of the barrel to give a flat surface for Combustion Chamber to sit on.

High Temperature Ceramic Blanket: Wraps around the inside of the barrel. It protects the barrel from the flame above the Combustion Chamber to keep the barrel from burning out, so the barrel will last a long time. It also goes down the side where the Oil Pump Assembly, Controls, and Combustion Air Blower are mounted to protect them from high heat that radiates off the barrel. (Before we put heat exchanger tubes into our bottom barrel, the barrel could reach 900°.)

60 Mesh Suction Filter: Protects the pump from particles that would plug the pump or create excess wear. There is no warranty on the pump if used without a suction filter.

H-8010 Burner Control Package SPECIFICATIONS

Variable Heat:	70,000 Btu to 180,000 Btu	NOT FOR INDOOR RESIDENTIAL USE.
Oil Consumption:	½ to 1¼ gallon per hour	
Electrical requirements:	2 Amps, 115 VAC, 60 Hz	<i>Because it is a kit, this burner control is not UL approved</i>
• Heater should have 6” or larger flue, no damper •		
H-8010 Used-Oil Burner Control Package		\$625.00 plus shipping
<i>Prices subject to change</i>		

OPTIONS

08041 80 Stainless Steel Screen Assembly. For on top of a 30 or 55 gallon barrel reservoir to filter out large particles that would plug a 60 mesh suction screen. **\$29.95**

08192 Cast Iron Combustion Chamber with Cascade Assembly. **\$138.00**

08043 Power Outage Control. During a power outage, the pump and blowers will not run, and the fire will go out. However, if you do not turn off the pump, it will come back on when power is restored. Since there is no fire, the oil will fill up the bottom of the heater and run out on the floor. With the Power Outage Control, when there is a power outage the oil and combustion air supplies are turned off until reset. **\$79.95**

Why build a **FreeBurn**TM Heater Kit instead of buying a commercial one?

PapaBurn, MamaBurn and BabyBurn

Advantages Compared to Commercial Units

- Low initial cost - 1/3 to 1/2 the price of commercial heaters
- Simple design • fewer components • fewer problems
- Easy to troubleshoot - does not require a trained serviceman
- No filtering needed - just strain the oil!
- Larger range of oil viscosities
- Simple means to get rid of antifreeze and used oil filters (PapaBurn)
- No nozzle to plug
- Synthetic oil can be burned when mixed with regular oils
- Variable heat output
- No air compressor required
- Very high heat efficiency with our heater kits
- Much lower yearly maintenance cost
- Build and install it yourself
- Commercial units usually require the shop and oil to be at least 50° or they will not fire up. We started ours once with it 7° above zero (oil has to be warm enough to flow).
- Commercial units normally require the burner to be serviced yearly at \$300.00 and up.

Disadvantages Compared to Commercial Units

- Does not operate off a thermostat
- Cannot be mounted from ceiling or wall
- Combustion chamber should be cleaned every 12 to 24 hours of operation (takes just a few minutes)
- Must be started manually
- Because they are kits, they are not UL approved, but they use UL approved electrical components

WARRANTY

The Waste Oil Heater kit is warranted for one year from date of shipment against defects in materials and workmanship. The warranty does not include normal wear, the pump being plugged with crud, or when the pump is taken apart. Any parts the user provides are excluded. Liability for any damage if the heater is assembled incorrectly is not included. Liability for any damage to property or personal injury is excluded. Defective parts will be repaired or replaced, at our option, during the warranty period provided the defective part is returned to Harold Electric Company shipping prepaid. Please call before shipping.



1. How heavy (weight-viscosity) of oil can I use?

Normally, up to 90 wt or heavier can be used, especially if it is mixed with lighter weight oils.

2. Do I have to preheat the oil?

No, but if the temperature is near zero outside, it helps to keep the oil warm enough to flow.

3. Can I use synthetic oil?

Yes, if it is mixed with other non-synthetic oils.

4. How much filtering is required?

None! A 80-mesh screen on top of the oil reservoir and an intake screen are all the straining needed.

5. Does the nozzle plug?

There is no nozzle to plug!

6. Do I need to separate water and antifreeze from the oil?

Yes, because it is very hard to keep the water and antifreeze mixed with the oil so it will burn as it goes through.

7. What do I do with the water and antifreeze that I separate from the oil?

We put the water and antifreeze in 1 gallon coffee cans in front of the combustion chamber. The water vaporizes off and the rest of the vapors burn.*

8. What can I do with my used oil filter?

Set it in front of the combustion chamber - the heat will cause the oil to vaporize and burn off.*

* For the H-8012A-Use welding gloves or other heat protection for your hands and arms when handling the hot cans.

9. Can I burn diesel or solvents?

Solvents and other liquids must be mixed with 3 or 4 parts of regular waste oil. Your local codes may not allow the burning of solvents. Diesel can be mixed in with the used oil, but not run straight. DO NOT attempt to burn gasoline or alcohol or any other highly flammable liquids or materials in this heater!!!!

10. Can I burn vegetable, peanut oil, or biodiesel?

Yes, but some are harder to start, so may require more paper or wood chips during startup. The oil flow and combustion air settings will be different. The heat output will also be different from fossil fuels.

11. Can I gravity-feed waste oil to the heater?

No, gravity feeding removes your control of fuel flow, affecting the mixture and cleanliness of burning.

12. How long do the combustion chambers and barrels last?

8 to 10 years or longer. The combustion chamber is made out of very high quality cast iron. The very high heat is confined to the combustion chamber and the area right above it. The barrel and controls are protected with a high temperature insulation blanket. The heat exchanger tubes in the H-8012 kit we have been testing have shown little degradation in five years of very heavy use. The heat exchanger tubes are easy to replace when necessary.

13. How often do I need to clean out the combustion chamber?

Frequency of cleaning depends on how dirty the oil is. Generally, once every 12 to 24 hours of use. This is simple, and takes only a few minutes after the combustion chamber has cooled down.

14. Is there any smoke?

There will usually be some smoke during preheat, which takes about 5 minutes. There should be none after preheat.

15. Can I burn wood, too?

No, we do not recommend it, and then only if you have a single barrel stove without a heat exchanger assembly (creosote in the heat exchanger from the wood would create a very dangerous fire hazard). A metal shield should be placed over the insulation blanket to protect it from the wood. Remove the burner controls and pipes, and cover the hole in the barrel with metal.

16. What do I need to change if I use something besides a 55 gallon barrel?

The lengths of the combustion air tube and the fuel line would need to be adjusted.

17. How often do I need to clean the barrels?

In order to maintain high efficiency in the heat exchanger, we suggest the heater should be cleaned 1-2 times each heating season.

18. Is this Used Oil Heater EPA approved?

The EPA allows the use of used oil heaters through a regulatory exemption regarding hazardous waste. The exemption allows the use of such heaters under 500,000 Btu per hour. So Used Oil Heaters are EPA exempted, not approved.



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