

WHY CLEAN BURN THE CLEAN BURN ADVANTAGE

The technologies for efficiently burning used-oils for reliable heat recovery are extremely demanding. Used-oil viscosities vary widely, and oils contain grime of all types. It requires precision engineering and leading edge technology to handle it right. It requires a Clean Burn heating system.

Clean Burn heating units are the longest-lasting, best-engineered in the industry. The bottom line for your business is obvious. Within a very short time, the investment in a Clean Burn used-oil heating system pays back more handsomely than any other alternative available. With our unmatched service and support, you'll realize energy savings and a comfortable working environment.

It's time you experienced the one investment that is sure to pay both immediate and long-term dividends. It's time for a reliable source of free heat.



Repair Shop



Trucking/Automotive



Heavy Equipment

The #1 Selling Used-Oil Furnace of All Time



Discover The Clean Burn Advantage Turn Your Oil Flow Into Cash Flow

High-Efficiency Furnaces: More Heat From Less Oil

Your company's used-oil is a free source of fuel. But the efficiency of your heating system's design and the quality of its construction will determine how far you can stretch your savings. When faced with unpredictable energy costs, only Clean Burn can maximize the value of your oil.

At the heart of Clean Burn's amazing efficiencies is the Clean Burn Heat Exchanger. Our furnaces are specially designed to allow up to 250% greater heated surface area compared to other competitive systems. The result—far greater heat recovery and longer service life.

The Legendary Burner System Engineered from the ground up specifically to burn

Engineered from the ground up specifically to burn used oils, the combination of pre-heater block, ignition system and special retention head make the Clean Burn Burner unique in the industry.



The World Leader In Used-Oil Heating Systems

High-Capacity Boilers: "Coil-Tube" Technologies— Max BTU's Easier Boiler Maintenance.

Cuts Cleaning Time By Up To 80%.

Patented Clean Burn technologies allow you to dramatically cut your maintenance time—as little as 1/8 the time spent cleaning comparable competitor's models.

Competitor units typically require 2 hours of cleaning for every 400 hours of operation. Clean Burn Coil-Tube Boiler systems take just 30 minutes every 70 1000 hours of provide The provide The systems take just 30 minutes every

750-1000 hours of operation. The swing-away burner and door allow for easy cleaning. Clean Burn is unmatched for reliability, performance and long service life.



Coil-Tube Design is the heart of this unique low mass boiler system.





Clean Burn Coil Tube Boilers can be stacked as part of a larger system. Your Authorized Clean Burn Distributor is fully trained and knowledgeable about used-oil boiler applications.



"INSTANT HEAT"—VERSATILE BOILER TECHNOLOGIES Clean Burn boilers provide "instant" hot water for a wide range of applications, with high efficiency in used oil heat recovery.



Fabricated sheet-metal or plastic coupling

Plastic gears, grease-packed

Low torque fan-cooled open motor

Pumps oil a maximum 50' distance, with minimum 50°F oil temperature.

Typical "Off-The-Shelf" Competitor's Pump

- Plastic Coupling or Fabricated Sheet-Metal
- Plastic Gears, Grease-Packed
- Low-Torque Fan-Cooled
 Open Motor

Steel drive shaft Heavy duty steel

gears in oil bath High torque, totally enclosed motor

Pumps oil a maximum 300' distance, with minimum -40°F oil temperature. Nothing else compares for reliability and for providing more installation options.

Clean Burn's Powerful & Dependable Metering Pump • Steel Drive Shaft

- Heavy Duty Steel Gears
 In Oil Bath
- High Torque, Totally-Enclosed Motor

NOTHING ELSE MATCHES THE POWER & DEPENDABILITY OF A CLEAN BURN

For reliability and installation options, nothing else compares. Superior Clean Burn pumping systems carry the potential to pump oil up to 300' distance with minimum -40F degree oil temperatures, and are powerful enough to draw oil stored in outside tanks.



Proven Technologies. Engineered Like No Other Used-Oil Heating System.

What You See Makes It A Clean Burn.

What You Can't See Makes It Burn Clean

More heat exhausted up the chimney Less heat warming the room

More heat warming the room

Less surface area for heat transfer

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Cold room air intake

> Cold room air intake

Less heat exhausted up the chimney

250% More Surf<mark>ace Ar</mark>ea

Heat Transfer

For Greater

Theirs

Typical "Blast Tube" Low-Efficiency Design

- Less Heat Delivered To Your Work Area
- Lower Surface Area For Heat Transfer
- More Heat Escapes Through Your Chimney
- Require Excessive
 Maintenance
- Shorter Equipment Life

Clean Burn

Advanced "Clean Burn" High-Efficiency Heat Exchanger

- Maximum Heat Delivered To Your Work Area
- 250% More Surface Area For Greater Heat Transfer (compared to competitive units)
- Less Heat Loss Through Your Chimney
- Less Maintenance
- Longest Equipment Life





Precision Engineered For Maximum Performance.

Clean Burn furnaces are engineered, designed and manufactured to provide you with

- 1) Easier installation
- Reduced cleaning requirements
- Highest efficiency performance in the industry
- 4) Maximum service life of your furnace

Easy-Access Design Features— For Easy-Clean Maintenance

- In-line washable oil filter
- Vacuum gauge for filter
- Wall thermostat
- Tank filter
- Barometric damper
- Oil line fittings package
- Oil supply pump

The Energy Retention Disk

This unique Clean Burn feature helps capture more heat per gallon by diverting the flame path, which results in greater heat generation with lower stack temperatures.



Patented Heat Exchanger Performance

The patented long-lasting Clean Burn Heat Exchanger delivers more heat from less oil—while providing a longer service life.



Manufactured For Durability

Clean Burn's unique metal-joining processes are more durable than welding. Swaging allows for expansion and contraction of the joints without cracking, to ensure a longer life.



Door swings open for easy cleaning.



Burner swings out for easy service.

Inside The Red Box. The Common Sense Heating System.

Unmatched engineering and quality construction lie at the heart of our furnaces. Cold air is heated by contact with the large volume of heat exchange surface area as it is circulated around the flue tubes. Hot gases return through the interconnected flue tubes, transferring more heat to the room air. Used-oil is more thoroughly combusted due to our patented energy retention disk in the combustion chamber generating more heat and higher efficiency in your shop.

Model CB-5000

The Model CB-5000, our largest furnace, is rated at approximately 500,000 BTU/hr. Popular at facilities with multiple bays. UL listed for use as a unit heater or central (ducted) furnace.

*Maximum BTU/hour 500,000 (146 kW)

*Maximum oil consumption 3.6 GPH (13.6 L/h)

Fuels Used oils

Crankcase, ATF, hydraulic Fuel oils #2, #4, and #5 fuel oil

Air flow output (CFM) Unit heater 5500 Central furnace (ducted) 0.25 SPWC (in.) 5200 0.40 SPWC (in.) 5000

*Air compressor req'd 2.0 CFM @ 25 PSI (3.4 m3/h @ 1.7 bar)

Stack size 10 inch dia. (254mm dia.)

Furnace dimensions, assembled 78" L x 38 W x 73 H (1981mm x 965mm x 1845mm)

Approx. weight (uncrated) 1036 pounds (466.2 kg)

Electrical requirements 230 VAC 60 Hz, single phase 30 A circuit breaker



Model CB-3500

The Clean Burn Model CB-3500 is rated at approximately 350,000 BTU/hr. Designed for easy installation and convenient service. UL listed for use as a unit heater or central (ducted) furnace.

*Maximum BTU/hour 350,000 (102 kW)

*Maximum oil consumption 2.5 GPH (9.5 L/h)

Fuels Used oils Crankcase, ATF, hydraulic Fuel oils

#2, #4, and #5 fuel oil

Air flow output (CFM) Unit heater 4200 Central furnace (ducted) 0.25 SPWC (in.) 4000 0.40 SPWC (in.) 3800

*Air compressor reg'd 2.0 CFM @ 25 PSI (3.4 m3/h @ 1.7 bar)

Stack size 8 inch dia. (203mm dia.)

Furnace dimensions, assembled 74" L x 35 W x 61 H (1880mm x 889mm x 1549mm)

Approx. weight (uncrated) 850 pounds (385 kg)

Electrical requirements 230 VAC 60 Hz, single phase 30 A circuit breaker



Meet the

Used-Oil

Model CB-325

The largest of the fo profile models, the M used-oil furnace is r approximately 325,0 listed for use as a u (ducted) furnace.

*Maximum BTU/ho 325,000 (95.3 kW)

*Maximum oil cons 2.1 GPH (7.91 L/h)

Fuels Used oils Crankcase Fuel oils #2, #4, and

Air flow output (CF Unit heater 3300 Central furnace (duo 0.25 SPWC (in.) 315 0.40 SPWC (in.) 290

*Air compressor re 2.0 CFM @ 20 PSI (3.4 m3/h @ 1.4 bar

Stack size 8 inch dia. (203mm

Furnace dimension 121" L x 31.25 W x 3 (3073mm x 794mm

Approx. weight (ur 641 pounds (288.7 l

Electrical requirem

115 VAC 60 Hz, sin 30 A circuit breaker -or-

230 VAC 60 Hz, sin 20 A circuit breaker

Model CB-140

The Clean Burn Model CB-140 is the smallest and most economical Clean Burn used-oil furnace in terms of initial cost. It produces approximately 140,000 BTU/hr. and is ideal for small garages, shops, and workspaces.

*Maximum BTU/hour 140.000 (41 kW)

1.0 GPH (3.8 L/h)

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*Maximum oil consumption



* Values indicated above are nominal. Actual values will vary depending on fuel and installation.

Family of Clean Burn Furnaces & Boilers



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Model CB-2500

The larger of the four low profile models, the Model CB-2500 used-oil furnace is rated at approximately 250,000 BTU/hr. Popular at facilities with multiple bays. UL listed for use as a unit heater or central (ducted) furnace.

*Maximum BTU/hour 250.000 (73 kW)

*Maximum oil consumption 1.7 GPH (6.4 L/h)

Fuels

Used oils Crankcase, ATF, hydraulic Fuel oils #2, #4, and #5 fuel oil

Air flow output (CFM) Unit heater 2700 Central furnace (ducted) 0.25 SPWC (in.) 2500 0.40 SPWC (in.) 2400

*Air compressor req'd 2.0 CFM @ 20 PSI (3.4 m3/h @ 1.4 bar)

Stack size 8 inch dia. (203mm dia.)

Furnace dimensions, assembled 103.25" L x 29.25 W x 31.5 H (2623mm x 743mm x 787mm)

Approx. weight (uncrated) 509 pounds (229.1 kg)

Electrical requirements 115 VAC 60 Hz, single phase 30 A circuit breaker



Model CB-1750

The Clean Burn Model CB-1750 is rated at approximately 175,000 BTU/hr. Low profile design for convenient installation. UL listed for use as a unit heater or central (ducted) furnace.

*Maximum BTU/hour 175,000 (51.25 kW)

*Maximum oil consumption 1.2 GPH (4.54 L/h)

Fuels Used oils Crankcase, ATF, hydraulic Fuel oils #2, #4, and #5 fuel oil

Air flow output (CFM) Unit heater 1700 Central furnace (ducted) 0.25 SPWC (in.) 1500 0.30 SPWC (in.) 1400

*Air compressor reg'd 2.0 CFM @ 20 PSI (3.4 m3/h @ 1.4 bar)

Stack size 8 inch dia. (203mm dia.)

Furnace dimensions, assembled 83" L x 29.25 W x 31.5 H (2190mm x 743mm x 787mm)

Approx, weight (uncrated) 406 pounds (182.7 kg)

Electrical requirements 115 VAC 60 Hz, single phase 20 A circuit breaker

els

ed oils Crankcase, ATF, hydraulic el oils #2, #4, and #5 fuel oil

flow output (CFM) it heater 2000 al fan mace cannot be ducted *Air compressor req'd 2.0 CFM @ 20 PSI (3.4 m3/h @ 1.4 bar)

Stack size 6 inch dia. (152.4mm dia.)

Furnace dimensions, assembled 45" L x 28 W x 20 H (1143mm x 711.2mm x 508mm)

Approx. weight (uncrated) 300 pounds (136.07 kg)

Electrical requirements 115 VAC 60 Hz, single phase 20 A circuit breaker



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Specifications are subject to change without notice.

IT'S TIME FOR CLEAN BURN

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Model CB-500-CTB

*Maximum BTU/input: 500,000 (146.5 kW)

*Maximum BTUoutput: 372,000 (109.0 kW)

Fuels Used oils Crankcase, ATF, hydraulic Fuel oils #2, #4, and #5 fuel oil

Heating surface: 97 sq. ft. /9.0 sqM

Boiler water volume: 20.6 gal. / 78 L

Design water flow per coil 37 gpm / 140 lpm

Cabinet dimensions 66.5" L x 39.75" W x 41.75" H 1689 mm x 1009 mm x 1060 mm

Overall dimensions (with burner/breach/plumbing) 85.25" L x 43.5" W x 47.85" H (2165mm x 1105mm x 1215mm)

Approx. weight (uncrated) 1600 pounds (725.7 kg)

Electrical requirements 115 VAC 60 Hz, single phase

*Maximum oil consumption 3.57 GPH (13.5 L/h)

Stack size 10 inch dia. (254mm dia.)

*Air compressor req'd 2.5 CFM @ 25 PSI (4.25 m3/h @ 1.7 bar)

Recommended clean-out 1000 hours



Model CB-350-CTB

*Maximum BTU/input: 350,000 (102 kW)

*Maximum BTUoutput: 260,000 (76.2 kW)

 Fuels
 Crankcase, ATF, hydraulic

 Fuel oils
 #2, #4, and #5 fuel oil

Heating surface: 68 sq. ft. /6.3 sqM

Boiler water volume: 12 gal. / 45.4 L

Design water flow per coil 25 gpm / 95 lpm

Cabinet dimensions 56" L x 34.25" W x 34.5" H 1422 mm x 870 mm x 876 mm

Overall dimensions (with burner/breach/plumbing) 74" L x 39.25" W x 41" H (1880mm x 997mm x 1041mm)

Approx. weight (uncrated) 1240 pounds (562.4 kg)

Electrical requirements 115 VAC 60 Hz, single phase

*Maximum oil consumption 2.5 GPH (9.5 L/h)

Stack size 8 inch dia. (203mm dia.)

*Air compressor req'd 2.5 CFM @ 25 PSI (4.25 m3/h @ 1.7 bar)

Recommended clean-out 1000 hours

Furnace and Boiler Systems Include:

In-line washable oil filter

- Vacuum gauge for filter
- Wall thermostat
- Tank filter

- Barometric damper
- Oil line fittings package
- Oil supply pump

* Values indicated above are nominal. Actual values will vary depending on fuel and installation.



Model CB-200-CTB

*Maximum BTU/input: 200,000 (58.6 kW)

*Maximum BTUoutput: 148,500 (43.5 kW)

Fuels Used oils Crankcase, ATF, hydraulic Fuel oils #2, #4, and #5 fuel oil

Heating surface: 39 sq. ft. / 3.6 sqM

Boiler water volume: 5 gal. / 19 L

Design water flow per coil 15 gpm / 57 lpm

Cabinet dimensions 39.5" L x 29" W x 29" H 1003 mm x 737 mm x 737 mm

Overall dimensions (with burner/breach/plumbing) 57.5" L x 33.25" W x 37" H (1460mm x 844mm x 939mm)

Approx. weight (uncrated) 677 pounds (304.7 kg)

Electrical requirements 115 VAC 60 Hz, single phase

*Maximum oil consumption 1.4 GPH (5.3 L/h)

Stack size 8 inch dia. (203mm dia.)

*Air compressor req'd 2.0 CFM @ 20 PSI (3.4 m3/h @ 1.4 bar)

Recommended clean-out 750 hours



Used-Oil Recycling Center

When used in combination with a Clean Burn furnace, a state-of-theart Clean Burn Recycling Center is the ideal system for collecting, storing and generating heat recovered from used oils. The Clean Burn Recycling Center works with most Clean Burn used-oil furnace models and includes a 215 gallon storage tank.

A Clean Burn Recycling Center makes oil handling and free heat generation easier because it combines the tank and furnace in one convenient unit complete with all vents, connectors, brackets, mounting plates and wiring harnesses.

Your Clean Burn Distributor is a qualified expert in system selection, installation and service, and will make sure you get the system that is perfect for your facility.



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Approximate system dimensions with Clean Burn furnace installed:			
CB-140	140,000 BTU/hr	80" L x 36" W x 116" H	2044 x 914 x 2946 mm
CB-1750	175,000 BTU/hr	83" L x 36" W x 127" H	2108 x 914 x 3225 mm
CB-2500	250,000 BTU/hr	103" L x 36" W x 127" H	2616 x 914 x 3225 mm
CB-3250	325,000 BTU/hr	121" L x 36" W x 131" H	3073 x 914 x 3327 mm

Specifications are subject to change without notice.

IT'S TIME FOR CLEAN BURN

Built To Last For The World's Most Demanding Environments

For Businesses Generating Used Motor Oil

It's time to discover the tremendous savings your company can experience from the installation of a durable Clean Burn heating system. If your business generates used motor oil, you'll benefit by reducing your company's heating costs—potentially all the way to zero.

Clean Burn. Green Burn.

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In a world faced with severe environmental challenges, Clean Burn just makes sense. First, recycling your used oil through onsite heat recovery reduces risks of spill and contamination. Second, the use of used oils as a fuel source sharply reduces pressure on natural gas and fuel oil supplies. Finally, Clean Burn used-oil combustion meets or exceeds every Environmental Protection Agency (EPA) requirement for helping preserve clean air. The EPA and corresponding agencies worldwide recognize Clean Burn equipment as a preferred method of recycling used motor oils.

> environmentally friendly FDA

EPA broved

World-Class Service



Three Reasons To Call Your Authorized Clean Burn Distributor Today

- 1) Assistance In Designing the Right Heating System for Your Business to Maximize ROI
- 2) Full Installation—Meeting Every Local Code
- 3) Service After the Sale—Highly Responsive and Unequaled

FREE Heat for a wide range of commercial facilities—Including Yours

Corporate facilities of every type are discovering the tremendous energy savings that can be easily delivered through the installation of a Clean Burn Energy System:

- New Car Dealerships
- Automotive Service Centers & Shops
- Carwash Facilities
- Quick Lube & Tire Centers
- Service Facilities (RVs, trains, busses, boats, etc.)
- Construction Companies
- Excavation & Mining Companies
- Farms & Agri-Businesses
- Corporate Fleet Facilities
- Recycling/Salvage Facilities

If your business generates used-oil, your company is the ideal site for Clean Burn used-oil furnaces and boilers. You'll benefit in many ways, including:

- Reducing your heating costspotentially to zero
- Providing the safest possible handling of your firm's waste oil
- Reducing the need for new energy consumption from the earth's energy reserves.



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The World's Most Reliable Source Of Free Heat A World-Wide Reputation For Reliability

Tractor Dealer

"We absolutely love this unit," says Greg Larimore, owner of Webster County Tractor Company in Marshfield, Missouri. The company has been saving energy costs for more than four years with his Clean Burn 2500 unit. "Our Clean Burn hasn't missed a beat—we get 100 percent free heat."

Agri Business

"We have 17 trucks that haul thousands of cattle each year throughout the western portion of the United States," says Brad Bingham, vice president of Bingham Livestock in Tremonton, Utah. "In maintaining those trucks, we have a great deal of used motor oils to dispose of all the time. The Clean Burn furnace we've had for five years is great. I think every farmer who maintains heavy equipment should have these units."

Auto Dealer

"We recycle almost 10,000 gallons of used-oils each year with our Clean Burn units," says Gordon Moore, vice president of McCormick Motors in Nappanee, Indiana. "The energy savings are significant. But the most important benefit is that we've eliminated our liability for transporting the used-oils to a disposal site and we're doing something positive for the environment."

More Clean Burn Used-Oil Heating Systems Are In Use Today Than Any Other Brand In The World.







See your Authorized Clean Burn Distributor Todav.



Tire Center

In 2006, Robinson Tire was spending \$4,000 yearly in gas heating costs. Since adding their Clean Burn furnace, they've reduced gas usage by 87 percent. The Lafayette, Indiana seven-bay auto center has just added a second Clean Burn furnace and expects even greater energy savings in the future.

Truck & Auto Dealer

"One of the first things we did when we purchased our 13,000-square foot reconditioning and clean-up building was buy our Clean Burn furnace," says Craig Burkholder, president of Magnam Truck and Auto in Lima, Ohio. "We create more than 2,300 gallons of used-oils every year with the sports utility vehicles and trucks we sell and service. Remarkably, for the past two years the Clean Burn unit has converted our waste fuels into energy. We're looking to buy more of these units in the near future!"

Construction Company Owner

Two Clean Burn furnaces purchased in December of 2007 recycled 6,000 gallons of used oils in just three months, saving the Kilbarger Construction of Logan, Ohio, more than \$28,000.

"These units will more than pay for themselves within the first year," says mechanic Mike Smith. "We deal with a large amount of heavy equipment, drilling rigs and trucks. They produce an exceptional amount of used-oil during their maintenance. Now we're transforming that used-oil into free heat for our 13,000-square foot shop operations."

Car Wash & Lube

"We've invested in Clean Burn units for the past 11 years because they're a critical part of our successful operations," says Mike Mountz, owner of Cloister Car Wash & Lube in Pennsylvania.



IT'S TIME FOR CLEAN BURN

