The #1 Multi-Oil Heating System In Customer Satisfaction™

CLEAN BURN

www.CleanBurn.com

environmentally friendly EPA approved

WHY CLEAN BURN
THE CLEAN BURN ADVANTAGE

The technologies for efficiently burning used oils for reliable heat recovery are extremely demanding. 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 multi-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 Multi-Oil Heating System in Customer Satisfaction

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 various oils, the combination of pre-heater block, ignition system and special retention head make the Clean Burn Burner unique in the industry.

CLEAN BURN

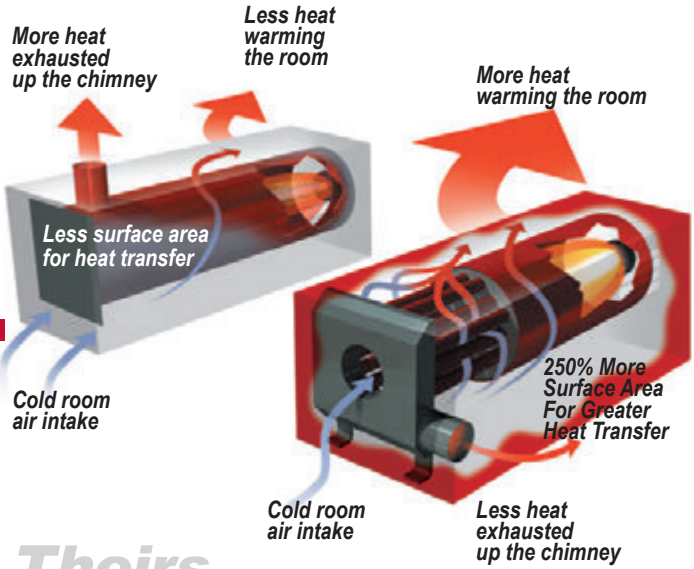
www.CleanBurn.com

IT'S TIME FOR CLEAN BURN

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

What You See Makes It A Clean Burn.

What You Can't See Makes It Burn Clean



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

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.

CLEAN BURN

www.CleanBurn.com

Precision Engineered For Maximum Performance.

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

1) **Easier installation**
2) **Reduced cleaning requirements**
3) **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

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. Oil is more thoroughly combusted due to our patented energy retention disk in the combustion chamber generating more heat and higher efficiency in your building.

CLEAN BURN **Furnaces**

Engineered like no other Multi-Oil Heating Equipment

	CB-1500	CB-2500
*** Maximum BTU/hour**	150,000 (45kW)	250,000 (73kW)
*** Maximum oil consumption**	1.1 GPH (4.14L/h)	1.7 GPH (6.4L/h
Fuels	◄	**Multi-oils:** Crank
Air flow output (CFM)	Unit Heater 1700 Central furnace (ducted) 0.25 SPWC (in.) 1500 0.40 SPWC (in.) 1400	Unit Heater 270 Central furnace 0.25 SPWC (in. 0.40 SPWC (in.
*** Air compressor req'd**	2.0 CFM @ 20 PSI (3.4 m3/h @ 1.4 bar)	2.0 CFM @ 20 (3.4 m3/h @ 1.4
Stack size	8 inch dia. (203mm dia.)	8 inch dia. (203
Furnace dimensions, assembled L x W x H (inches) (millimeters)	83 x 29.25 x 31.5 (2190 x 743 x 787)	103.25 x 29.25 (2623 x 743 x 7
Approx weight (Uncrated furnace system)	406 pounds (182.7 kg)	509 pounds (22
Electrical requirements	230 V / 50Hz 20A circuit breaker	230 V / 50Hz 30A circuit breal

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

Multi-Oil Recycling Center

When used in combination with a Clean Burn furnace, a state-of-the-art Clean Burn Recycling Center is the ideal system for collecting, storing and generating heat recovered from various oils. The Clean Burn Recycling Center works with most Clean Burn furnace models and includes a 946 litre storage tank.

CLEAN BURN

www.CleanBurn.com

Furnace System Includes:

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

	CB-3500	CB-5000
)	350,000 (102kW)	500,000 (146kW)
n)	2.5 GPH (9.5L/h)	3.6 GPH (13.6L/h)
case, ATF, hydraulic	**Fuel oils:** #2, #4, and #5 fuel oil	→
0 (ducted)) 2500) 2400	Unit Heater 4200 Central furnace (ducted) 0.25 SPWC (in.) 4000 0.40 SPWC (in.) 3900	Unit Heater 5500 Central furnace (ducted) 0.25 SPWC (in.) 5200 0.40 SPWC (in.) 5100
PSI 4 bar)	2.0 CFM @ 25 PSI (3.4 m3/h @ 1.7 bar)	2.5 CFM @ 25 PSI (4.25 m3/h @ 1.7 bar)
mm dia.)	8 inch dia. (203mm dia.)	10 inch dia. (254mm dia.)
x 31.5 87)	74 x 35 x 61 (1880 x 889 x 1549)	78 x 38 x 73 (1981 x 965 x 1845)
9.1 kg)	836 pounds (376.2 kg)	1036 pounds (466.2 kg)
ker	230 V / 50Hz 30A circuit breaker	230 V / 50Hz 30A circuit breaker

Specifications are subject to change without notice.

In addition to a Clean Burn furnace and all its compontents, the Clean Burn Recycling Center includes an oil storage tank, legs, supports, brackets, mounting plates, and wiring harnesses.

- Designed from the ground up as a complete, self-contained heating and recycling system for oils including crankcase, ATF, and hydraulic oils
- Accomodates most Clean Burn furnaces
- UL listed 946 liter tank
- Simplifies furnace installation
- Optional funnel kit and filter drain rack kit

CLEAN BURN **Coil Tube**

Model CB-200-CTB

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

***Maximum BTU/output:**
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
230V / 50Hz

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

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

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

Recommended clean-out
750 hours

Model CB-350-CTB

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

***Maximum BTU/output:**
260,000 (76.2 kW)

Fuels
Used oils Crankcase, AT
Fuel oils #2, #4, and #5

Heating surface:
68 sq. ft. /6.3 sqM

Boiler water volume:
12 gal. / 45.4 L

Design water flow per co
25 gpm / 95 lpm

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

Overall dimensions (with burner/breach/plum
74" L x 39.25" W x 41" H
(1880mm x 997mm x 104

Approx. weight (uncrate
1240 pounds (562.4 kg)

Electrical requirements
230V / 50Hz

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

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

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

Recommended clean-out
1000 hours

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

Boilers

Model CB-500-CTB

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

***Maximum BTU/output:**
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
230V / 50Hz

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

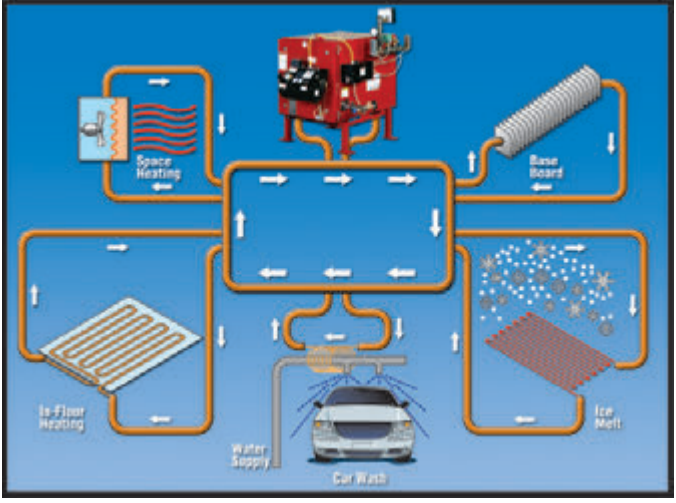
Stack size
10 inch dia. (254mm dia.)

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

Recommended clean-out
1000 hours

Specifications are subject to change without notice.

Typical Boiler Applications



Clean Burn multi-oil boiler systems are so versatile that they are used for a wide range of applications, from heating water in a car wash to in-floor heating systems and more.

Patented burner technology

The Clean Burn burner swings out for easy cleaning, maintenance, and service. An exclusive heater block, atomizer and combustion mechanism make Clean Burn unmatched for reliability, performance and long service life.

Easier maintenance

With Clean Burn Coil Tube Boilers, you spend 30 minutes cleaning every 750-1000 hours of operation. With competitive units, you spend 2 hours cleaning every 400 hours of operation.

Wired, plumbed for installation

Clean Burn Coil Tub Boilers arrive with wiring and plumbing in place, helping make installation much faster and easier. They meet all national fire and safety codes.

Versatile Hot Water Technology

Multiple Clean Burn Boilers can be used to create larger systems.

Clean Burn Coil Tube Boilers are uniquely designed for installation flexibility. Each is engineered for use as a single boiler unit, or as part of a series of boilers working as a larger system.

- Three-pass heat exchanger captures more heat for greater efficiency
- Low-mass water design provides quick start-up and reduces stack heat loss
- Patented burner engineered exclusively for used-oil combustion
- System is pre-plumbed, pre-wired, ready for installation
- Narrow cabinet designs provide installation flexibility

The #1 Multi-Oil Boilers in Customer Satisfaction

ERMA Multi Oil Let's Recycle It!

UL listed, ASME tested and approved.

CLEAN BURN

34 Zimmerman Road
Leola, PA USA 17540-1958
1-800-331-0183 Fax: 717-656-0952
www.CleanBurn.com