

**THE FINEST OF MODERN  
AUTOMATIC HEAT FOR  
LARGER HOMES!**



**CLEAN! QUIET! ECONOMICAL! DEPENDABLE!**

**TIMKEN** *Silent Automatic*

**OIL BOILERS**

**MODELS OBC**

# Economy

is assured by the famous  
**TIMKEN Silent Automatic**  
**WALL-FLAME OIL BURNER,**  
precision-built and integrally-engineered with the boiler!

Illustrated at the right is the heart of Timken Silent Automatic Oil Boilers—the famous Timken Silent Automatic Wall-Flame Oil Burner that took oil heating out of the luxury class and brought it within budget range of every home owner. It is designed especially for homes, and can be operated at the firing rate that will produce the thriftiest heating. It is a totally different, better burner! Unlike the ordinary burner that is complicated by dozens of moving parts, many of which are extremely delicate, the wall-flame burner used in Timken Silent Automatic Oil Boilers has only one moving part. And this one moving part is self-lubricated—no iroublesome "oil-can" lubrication is ever required! Timken Silent Automatic's greater simplicity and ruggedness assure longer life, minimum upkeep.



The Timken Silent Automatic Wall-Flame Oil Burner,  
heart of Timken Silent Automatic Oil Boilers

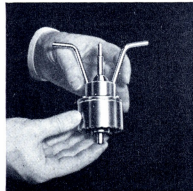
efficiency. When you compare this fast warm-up with the 5- to 10-minute warming up period required by ordinary burners using heavy brick, tile and cement refractories, it's easy to understand why the fast-acting Timken Silent Automatic Wall-Flame Burner delivers more heat from less oil. And with modern thermostats which maintain a more uniform temperature by starting and stopping the burner more frequently, this quick warm-up is a particularly important source of fuel savings.

**Lower Electrical Costs** Timken Silent Automatic requires an electric motor only a fraction of the size found on conventional burners. The motor's only function is to whirl the oil distributing tubes and fan.

Ordinary burners with pressure pumps, and Timken Silent Automatic. Moreover, instead of staying "on" and using current during the entire operating period, Timken Silent Automatic's intermittent ignition comes "on" with the burner—then shuts off when the fire is lighted (generally within 60 to 90 seconds). Ignition cost is less than 15c a year.

**Permits Simple Boiler Design** Because the wall-flame burner was especially designed for efficient operation in residential boilers and furnaces of standard design, its application to Timken Silent Automatic Oil Boiler units does not require "freak" boiler design for high operating efficiency and low fuel costs. The boiler can be—and is—a simple, trouble-free design that gives greater satisfaction and lasts years longer than complicated boilers.

**A Unique, Simple Principle** The exclusive Timken Silent Automatic Wall-Flame principle is the secret of Timken Silent Automatic fuel economy. The one moving part (the Mono-Rotor) whirls tiny droplets of oil outward against the chromium-steel flame rim. In a few seconds after the burner starts, the flame rim becomes glowing hot. The oil is vaporized as it comes into contact with the flame rim—the vapor mixes with a carefully measured amount of air from the Mono-Rotor—and then rises through the flame rim grilles in a clean, blue-hot flame that literally blankets the fire-box walls

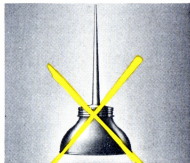


Timken Silent Automatic's  
One Moving Part

for quick transfer of heat. Combustion is whisper-quiet and complete. And there's plenty of time for the boiler heating surfaces to "soak up" heat from the unhurried gases before they reach the chimney.

**Faster Warm-up** Timken Silent Automatic's chromium-steel flame rim becomes glowing hot within seconds after the burner starts. Almost from the time the thermostat says "go," the Timken Silent Automatic Wall-Flame Burner is operating at maximum

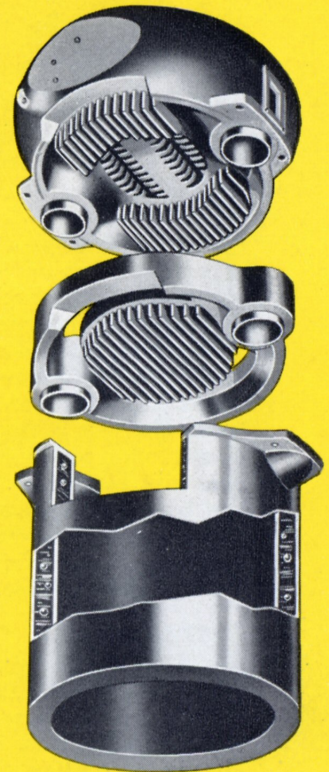
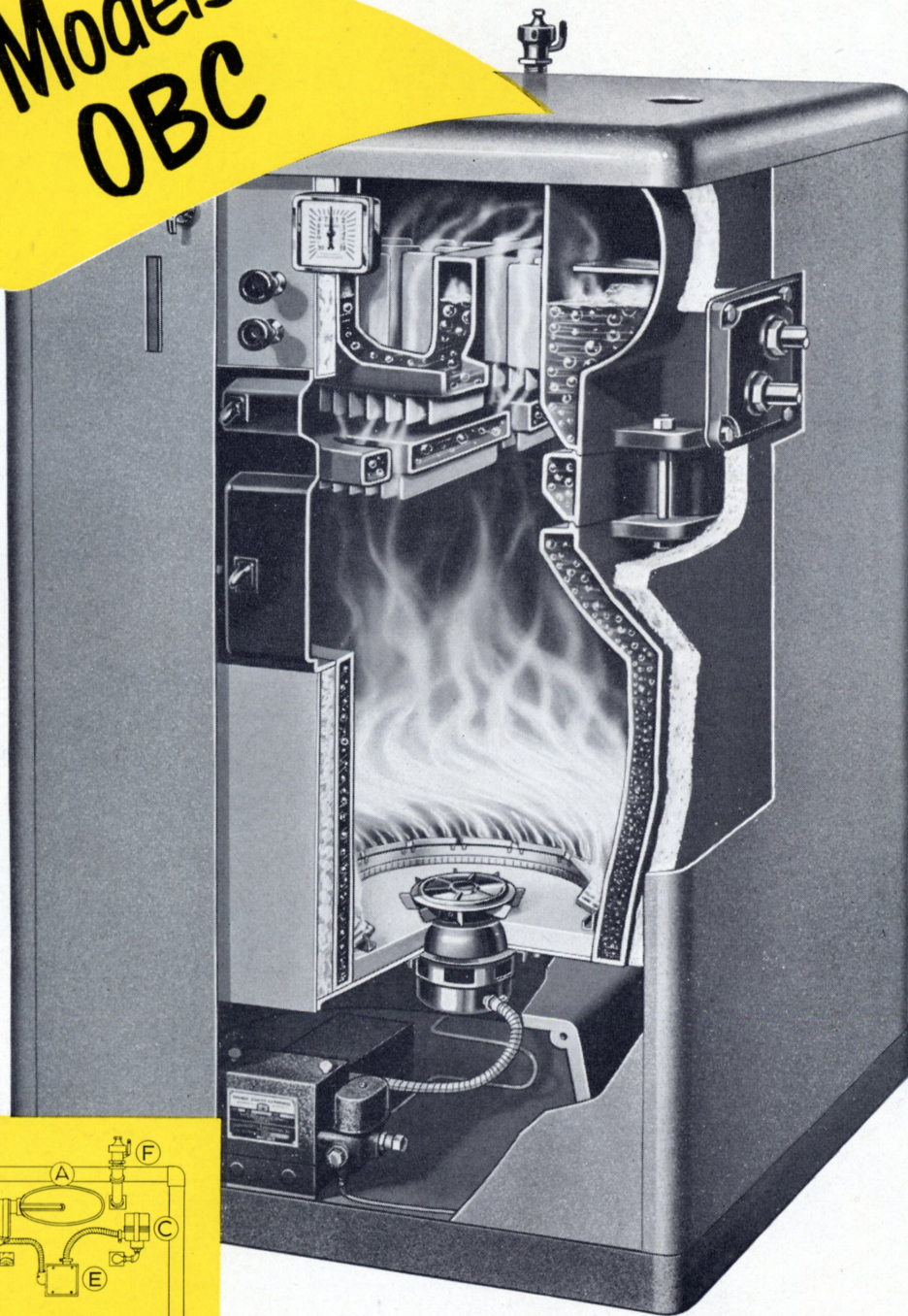
**Only One Moving Part** Timken Silent Automatic has only one moving part—the rotor of the motor to which the fan and oil distributor are attached. The steel and copper rotor is fused into one solid piece and accurately balanced for smooth, whisper-quiet operation. It has no brushes to wear, no switches to stick, and spins like a top on an anti-friction bearing located at the end of the rotor shaft. When you consider that there are as many as 18 moving or wearing parts in a pressure burner pump alone, it is easy to see why Timken Silent Automatic is unmatched for long life and dependable service.



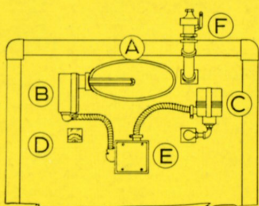
A Timken Silent Automatic  
Lubricates Itself

**Top Quality You Can Depend On** In no other modern convenience do the quality of the product and the integrity of the manufacturer mean so much as in automatic oil heating equipment. You buy oil heat primarily for comfort and for complete freedom from heating worries. You can depend on both when you buy Timken Silent Automatic, because Timken Silent Automatic Oil Boilers are backed by nearly half a century of manufacturing to highest standards of quality and precision. Wherever oil heating is known, Timken Silent Automatic is accepted as the quality standard. And every Timken Silent Automatic owner knows that this higher quality means greater value.

# Models OBC



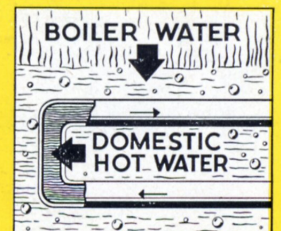
Heat absorbing fins lining the flues of Model OBC Oil Boilers are shown in the sectional illustration above. Practically all the usable heat remaining in the combustion gases is trapped by the fins and transferred to the boiler water before the gases pass out into the chimney. The extra height of the firebox section provides an extra large area of primary heating surface to be blanketed by the wall-flame of the oil burner. This produces faster circulation of boiler water and faster, more economical heating of the home.



Rear View of Unit

A—Chimney connection. B—Master control. C—Limit control. D—Domestic water temperature limit control. E—Wiring connection junction box. F—Relief valve.

**Timken Silent Automatic Model OBC Oil Boilers** are the finest and thriftiest factory-coordinated oil boilers money can buy. They are offered in three sizes—OBC-110, OBC-150 and OBC-205—for medium and large-size homes. The Timken Silent Automatic Wall-Flame Oil Burner is designed as an integral part of each boiler and is supplied with a factory-built hearth equipped with a factory-installed flame rim. The boiler is designed to take full advantage of the oil burner's remarkable combustion efficiency. And it is simple and rugged throughout. The leisurely traveling burner flames give up most of their heat while "scrubbing" the primary heat absorbing surfaces of the firebox. Fins lining the flues or secondary heat absorbing surfaces "squeeze out" an extra measure of heat remaining in the combustion gases before they reach the chimney. As illustrated, all Model OBC oil boilers may be equipped for heating domestic water the year 'round.



A built-in, copper tube water heater (extra optional equipment) provides a year-round supply of domestic hot water. Temperature control is fully automatic. Operation of the boiler to heat domestic water in the summertime does not heat the home.

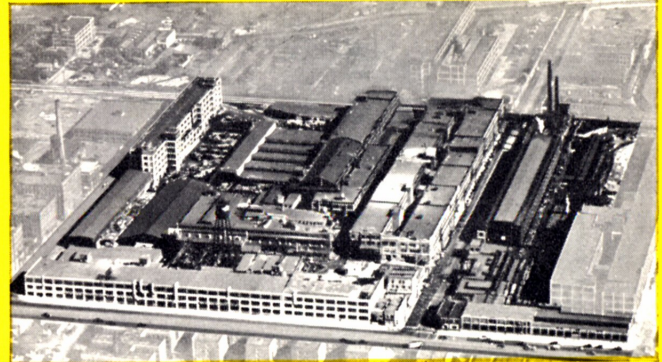
# Your assurance of satisfaction—

## THE 25-YEAR REPUTATION OF TIMKEN SILENT AUTOMATIC

During more than 25 years of building and installing automatic home heating equipment, Timken Silent Automatic has established a nation-wide reputation for advanced design, precision manufacturing, and highest quality standards of materials and workmanship. Today, Timken Silent Automatic Products are "The Accepted Standard" wherever home heating equipment is sold—today there is an army of hundreds of thousands of owners who testify to the wisdom of insisting upon the best and buying only after careful investigation. You can buy with confidence when you buy Timken Silent Automatic . . . confidence that the product is right, that it will be installed right, and that your investment will yield lifetime dividends of economy and satisfaction.

**INSTALLED BY TRAINED MECHANICS**—Timken Silent Automatic Dealers and their installation crews are thoroughly trained in approved installation and service methods. Thus, every Timken Silent Automatic purchaser is assured not only of a quality product, but also of a quality installation which, as much as the product itself, insures complete satisfaction throughout its long life.

**FREE INSPECTION AND ESTIMATE**—Before you buy oil-fired heating equipment either for your new home or to replace present equipment, see your Timken



ABOVE: 32-acre main plant at Detroit, Mich. Other plants located at Jackson, Mich.; Oshkosh, Wisc.; Utica, N. Y.; New Castle, Pa.; and Ashtabula and Kenton, Ohio.

Silent Automatic Authorized Dealer. Let him survey your home and figure your exact heating requirements, without cost or obligation. Let him show you how easily you can enjoy the comfort and convenience of Timken Silent Automatic Heat—and save money at the same time. He will advise you as to the size of unit required for your home, and will supply you with a complete proposal covering purchase price and installation details.

### TIMKEN *Silent Automatic* BUY-GUIDE

#### RATINGS AND SPECIFICATIONS

MODEL	OBC-110	OBC-150	OBC-205
Heating Capacity, Btu. per Hour at Boiler Outlet*	110,000	150,000	205,000
Domestic Water Heating Capacity, Gallons per Hour (60° Rise)	22 or 37		
Maximum Operating Pressures	Steam, 15 lbs.; Water, 30 lbs.		
Oil Rate, Pounds per Hour, Maximum	7.5	10	14
Hearth Type	Refractory		
Grades of Fuel Used**	Nos. 1 and 2		
Burner Motor Horsepower	1/40	1/40	1/30
Current	115 volts, 60 cycles		
Ignition	Intermittent Electric		
Hourly Power Requirements, Watts, Average	65	65	70
Chimney Connection, Diameter	8"	9"	10"
Chimney Cross Section Required	8" x 8"	8" x 12"	8" x 12"
Outlets, Number and Size	2-2 1/2"	2-3"	2-3 1/2"
Returns, Number and Size	1-4"	1-4"	1-4"
Pump Connection, Number and Size	Use Return Opening		
Over-all Height	48 1/4"	58 1/4"	59 1/4"
Over-all Width	28 1/4"	33 1/2"	37 1/2"
Over-all Depth	29"	34"	37 3/4"
Approximate Shipping Weight	900 lbs.	1340 lbs.	1615 lbs.

\*Heating capacity in Btu. per hour can be converted to square feet of hot water radiation by dividing by 150 (Btu. per square foot) for gravity water systems and 240 (Btu. per square foot) for steam systems. For forced hot water heating systems, convert to square feet of hot water radiation by dividing by the Btu. emission rate for which system was designed. This varies from 180 to 220 Btu. per square foot.

\*\*Listed as standard by Underwriters' Laboratories to burn Nos. 1 and 2 fuel oil, U. S. Department of Commerce, Bureau of Standards specifications No. CS-12-48 adopted September 25, 1948, and Nos. 1 and 2 fuel oil, American Society for Testing Materials designation D 396-48T as accepted by Administrative Committee on Standards, April 6, 1948. Note: No. 3 fuel oil is not designated as a residential fuel oil in the specifications adopted by the above authorities.

PROUDLY SOLD AND INSTALLED BY

*B. J. Perry*

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CHICAGO 51, ILLINOIS

## TIMKEN *Silent Automatic* OIL HEAT

TIMKEN SILENT AUTOMATIC DIVISION  
The Timken-Detroit Axle Company • Jackson, Michigan  
The Timken-Detroit Axle Company of Canada, Ltd., Toronto, Ont.

