# THE CARLIN COMPANY

**912 SILAS DEANE HIGHWAY • WETHERSFIELD 9, CONN.**

**MANUFACTURERS OF OIL AND GAS BURNERS, OIL-FIRED WATER HEATERS**

**Pressure-atomizing, fully automatic, gun-type Oil Burners for residential and commercial installations.**

The Carlin Company manufactures a complete line of quality oil burners in capacities from 0.65 to 20.00 gph for use of No. 2 grade fuel oil. Pedestal and flange mounted models are offered. Mounting to popular makes of boilers and furnaces is made easy with a wide selection of *flanges and mounting plates* especially developed by U.S.-Carlin. Advanced design features include the "Shell Head," a significant improvement in oil burning which develops higher combustion temperatures, makes heat-wasting soot deposits negligible, conserves fuel.

With either distillate or catalytic fuels, operation is quiet, clean, economical. Use of heat and corrosion resistant alloys guards against deterioration, makes cleaning easier.

**U.S.-Carlin Oil Burners are available with Electronic Controls which comply fully with Underwriters' Laboratories latest safety switch timing requirements. Many sets are factory mounted and wired to insure proper hook-up and save on-the-job wiring expense.**

U.S.-Carlin Oil Burners are listed by Underwriters' Laboratories, Inc. and are approved under U.S. Government Commercial Standard CS75-56 *where applicable.*



400S-2 (0.75-1.75 gph)
400S-3 (1.75-3.00 gph)



150F (0.65-1.35 gph)
150F (1.35-2.00 gph)



800S-4 (4.00-8.00 gph)

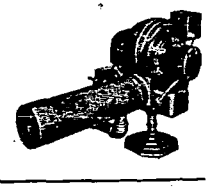


2000 (10.00-20.00 gph)

**"FIRE-POWER" Gas Burners offered by The Carlin Co. are designed for use with natural or mixed gas in a capacity range from 300,000 to 1,600,000 btu per hour, maximum input.**

Features include the "tube within a tube" design which permits *metering* and mixing exact amounts of air and fuel for high combustion efficiency. Primary air scoops, built into the inner tube, proportion the air in required volume for intimate mixing with the gas. Positive control of the air-fuel mixture produces a radiant flame for effective direct transfer of heat to the heating surfaces.

**Gas Models FG-500BE(U), FG-750 BE, FG-1150 BE, FG-1600 BE for Scotch Marine boilers and large *warm air furnaces.* Max. input to 1,600,000 btu per hour. Listed by Underwriters' Laboratories, Inc.**



## STORAGE-TYPE WATER HEATERS

U.S.-Carlin fully automatic oil-fired storage-type heaters feature a high recovery rate. (*Model* OFG-30-S heats 120 gallons per hour at 100° F. temperature rise.) Equipped with U.S.-Carlin Model 150F oil burner, especially adapted to clean, efficient firing in water heater combustion chambers. Tank assemblies covered under factory warranty as follows: Domestic use—glass lined models, 10 years; copper lined models, 15 years. Commercial use—glass lined models, 1 year; copper lined models, 2 years.



**(Right) Model OFG-30-S, with glass lined 30-gallon tank, illustrated. Other glass lined models in 50- and 70-gallon sizes; also 30-gallon "Com-pac" model for confined areas or overhead installation, and copper lined models *in* 30-, 50- and 65-gallon sizes.**

### FEATURES

Combustion chamber of high temperature refractory in steel casing • Flue-liner of corrosion resisting aluminized steel • Tank fully insulated with Fiberglas • Fitting openings sealed with asbestos and furnace cement • Easily replaceable magnesium anode in glass lined models • *Provision for* dual aquastat.

## *INDIRECT*-TYPE WATER HEATERS

U.S.-Carlin indirect oil-fired submerged copper coil water heaters are especially designed for hotels, motels, swimming pools, schools, churches, restaurants, laundromats and similar installations where large quantities of hot water are required. Closed-system design prevents impurities from coating the heating surfaces. U.S.-Carlin oil burner is properly sized to the combustion chamber area.

Unit may be used with separate storage tank to meet "shock load" conditions.



**(Right) Model W-216, with capacity of 216 gph at 100° F. temperature rise, illustrated. Line includes a total of 14 models in a range from 118 gph to 1296 gph at 100° F. temperature rise.**

### FEATURES

Removable copper coils have large radii bends for unrestricted water flow and minimum pressure drop • Shell of heavy steel plate, minimum thickness of ¼" • All units tested at 1½ times water working pressure • Full length, cold-drawn steel fire tubes welded *into header yet are readily accessible for* cleaning • Equipped with ASME pressure relief valve, hot water control, combustion safety control, and combination pressure-temperature-altitude gauge.

ASME

**For complete technical literature including engineers' manual, specification sheets, electronic control data, combustion chamber dimensions, water heater sizing charts, etc., address The Carlin Co., 912 Silas Deane Highway, Wethersfield 9, Conn.**



# A. W. CASH VALVE MFG. CORP.

**666 E. Wabash Avenue CASH-ACME Decatur, Ill.**

**Representatives in principal cities. See the "Valve" Classification in the Yellow Pages of your local telephone directory**

**AUTOMATIC VALVES; BOILER PRESSURE CONTROLS; RELIEF VALVES; BACK PRESSURE VALVES; PRESSURE REDUCING AND REGULATING VALVES**

## HYDRONIC CONTROLS



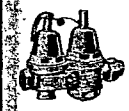
TYPE "Z-103"

**HYDROZONE TYPE "Z" SERIES**—New, superior motorized zone control valves for hot water heating systems. Actually better, overcomes objections found in cheaper valves. 100% shutoff, silent, compact. Furnished with union end for IP or copper in ¾", 1" and 1¼" sizes.



TYPE "CQ"

**TYPE "CQ" DUAL CONTROL**—Combines pressure reducing boiler feeder with a positive *ASME listed relief valve* in one body, plus an easily accessible inbuilt strainer. All bronze, body, silicone relief seat. High relief design for good water or emergency steam relief. Keeps water in system above 13 psi and below 30 psi continuously and automatically.



TYPE "CBL"

**TYPE "CBL" DUAL CONTROL**—Combination *reducing* and regulating valve, by-pass valve and positive relief valve all in one body. Automatically keeps heating system filled with water above 13 psi and below 30 psi. Relief side protects against high pressure due to thermal expansion. By-pass affords quick filling at higher pressures.



TYPE "A-40C"

**TYPE "A-40C" REDUCING VALVE**—Automatically feeds water to a hot water boiler as needed. Valve features inbuilt half union and strainer. An inbuilt check valve prevents back siphonage of boiler water. All Bronze. Size: ½ in. screwed or sweat copper inlet.

## RELIEF VALVES



TYPE "F-51"

**TYPE "F-51 & F-52"**—*ASME* tested and rated safety relief valves for hot water space heating boilers, larger storage tanks and water heaters. *Fully meets ASME* requirements in safe-guarding against maximum steam a boiler might generate in runaway conditions. Available with female inlets in sizes ¾ in. to 2 in.



TYPE "NFLX-6"

**T & P RELIEF VALVES**—Automatic temperature-pressure relief for water heaters and tanks. TWO MODELS, both AGA listed under new standard ASA Z21.22-1958.

**TYPE "NFLX-6"**; ¾" male inlet, ¾" female outlet and 6" thermostat element with 90,000 BTU/HR rating.

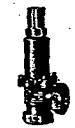
**TYPE "FVMX-6"**; ¾" male inlet, ¾" female outlet, 6" thermostat with 135,000 BTU/HR rating. Also ASME listed.

## BACK PRESSURE VALVES



TYPE "FR"

**BACK PRESSURE RELIEF VALVE**—High quality industrial type. Iron or bronze; suitable up to 400 psi. For practically any service (except steam). Unusually accurate control; good capacity. ½ in. to 2 in. sizes.



TYPE "K-10"

**TYPE "K-10" BACK PRESSURE VALVE**—*Use on pumps and systems for* water, fuel oil of all grades, etc. Constant control of discharge pressure assured by balanced piston. All Bronze, S.S. piston and spring. Max. relief 600 lbs. Sizes: ½ in., ¾ in., 1 in., 1¼ in. female connections.

## PRESSURE REDUCING VALVES



TYPE "B"

**TYPE "B"**—Industrial type pressure reducing valve, *designed for maintaining* desired pressure in service line regardless of fluctuations in pressure from supply. Available with pressure settings of 2 to 200 psi, for steam, air, water, oil and other services. ¼ in. to 2 in. sizes.



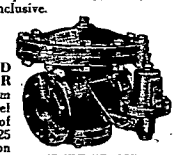
TYPE "E"

**TYPE "E"**—Water pressure reducing valve, keeps pressure in homes at 45 psi or whatever pressure is desired. All bronze, large in-built strainer with separate cleanout. Maximum inlet 250 psi. ½ in. to 2 in. sizes.



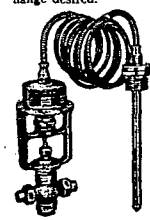
TYPE "E-55"

**TYPE "E-55" PRESSURE REGULATOR**—For air, water, oil and other fluids, in applications requiring exceptional accuracy. Very high capacity. All bronze with inbuilt strainer and stainless steel body seat. Inlet pressure to 400 lbs. Sizes: ½ in. to 2 in. inclusive.



TYPE "B-60"

**TYPE "B-60" PILOT OPERATED STEAM PRESSURE REGULATOR**—*Single seated high capacity steam* regulators. Iron body, stainless steel trim. ½" to 2" screwed for max. inlet of 250 psi. 1½" to 6" flanged for either 125 psi inlet or 250 psi inlet depending on flange desired.



**TYPE "TC" TEMPERATURE REGULATOR**—For control of either heating or cooling fluids. Vapor pressure operated. Direct or reverse acting. Single or double seat. Valve bodies are iron or bronze. Sizes: Type TC (Std. 40 Deg range) ¼ in. to 5 in. inclusive. Type TCX (70 Deg range) ½ *in. to 2 in. inclusive.* All *models*, union connections.

TYPE "TC"