Carrier-Lyle Corporation

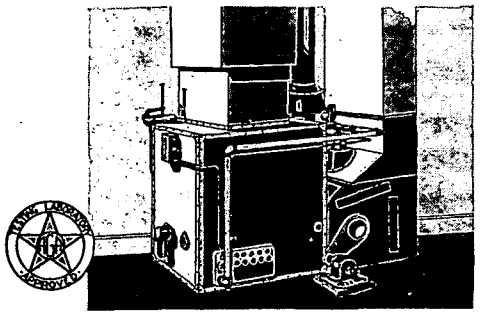
39 Cortlandt Street, New York, N. Y.

Affiliated with the Carrier Engineering Corporation

THE CARRIER WEATHERMAKER

A SCIENTIFIC AIR-CONDITIONING SYSTEM FOR HOMES

Compact new gas-burning unit for homes introduces a warm-air heating system that is clean; positive in circulation of air; healthful; and automatic in operation.



A complete heating and air-conditioning system for homes in winter. Approved by American Gas Association *Testing Laboratory. Made to take summer cooling unit, (now under development), without change in present system.*

The Carrier Weathermaker makes indoor weather to order.

1. It controls the moisture content of the air, maintaining a fixed, healthful relative humidity.
2. It warms the air, using manufactured or natural gas as fuel.
3. It filters the air, removing dust, dirt and bacteria.
4. It circulates the air by centrifugal blower, insuring positive, uniform distribution of heat.
5. It operates automatically.

In controlling warmth, humidity and air motion, the Carrier Weathermaker represents an original and constructive improvement in house-heating.

Development—The Carrier Weathermaker is an adaptation, for domestic use, of the well-known Carrier Systems now operating in nearly 3000 theatres, stores, factories and other large buildings.

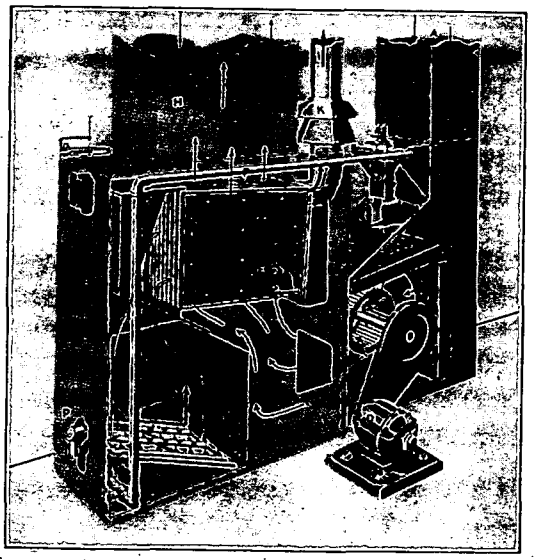
Operation—The simplicity of the Carrier Weathermaker is indicated by the diagram on opposite page. Air enters through return duct (A)—passes through filters (B) into blower (C) and is forced out under uniform pressure into heat-interchanger (E), where it is warmed. It rises to (F), where humidity is furnished by humidifier (G); then passes into mixing chamber (H) and is returned to rooms through warm-air ducts. Circulation is continuous and positive.

Combustion—The heat is supplied by gas burner (J). Combustion chamber and gas passages are entirely separate from the air passages.

The Carrier Weathermaker operates with an overall efficiency of 90 per cent.

Temperature Regulation—The thermostatic control mechanism (M) operates a throttling valve on the gas line. It regulates the gas supply to the demand for heat.

Protective Controls—A thermostatic pilot control (P) operates to close the main gas supply should pilot go out or gas-flow fail; a heat-limiting control (N) turns off the gas supply before overheating, through any cause, can occur.



Solid arrows show air travel. Outline arrows indicate combustion gases.

Filters—The air is cleaned by oil-coated, metallic-fiber filters.

Humidity Control—Moisture is added to the circulating air by the humidifier (G). Once adjusted to provide the desired relative humidity of the house atmosphere, the humidifier functions automatically.

Positive Circulation of Air—The blower provides forced circulation of air throughout the house. It is indirectly driven by a separately-mounted electric motor.

Non-corroding Construction—The combustion chamber and interchanger are made from a special nickel-chrome steel which is leak-proof and impervious to rust and acids.

Space Economy—The forced distribution of air permits the Carrier Weathermaker to be placed anywhere in the cellar, with resulting economy of space. It permits, also, the use of smaller ducts and long runs.

RATINGS, CAPACITIES, GAS CONSUMPTION, WEIGHTS

Weathermaker Number	Output B.t.u. per Hour	Fan Capacity Cubic Feet per Minute	Motor Horsepower	Gas Consumption Cubic Feet per Hour*	Approximate Shipping Weight Pounds
1	75,000	600	1/8	155	800
2	155,000	1200	1/6	318	1100
3	225,000	1800	1/4	455	1400

*Gas consumption figures based on manufactured gas of 550 B.t.u. and 3½ in. water gauge at pressure regulator. (*A. G. A.* Standard).

DIMENSIONS

Weathermaker Number	Overall Length	Overall Width	Height	Height Including Draft Diverter	Size of Return Air Opening	Size of Air Discharge Opening	Size of Gas Supply Line	Diameter of Flue Conn.
1	6'-3⅝"	3'-3½"	3'-11⅛"	4'-10"	12" x 14"	11" x 22"	1"	7"
2	6'-3⅝"	4'-2⅛"	3'-11⅛"	4'-10⅛"	12" x 25⅛"	22" x 22"	1¼"	8"
3	6'-3⅝"	5'-2¼"	3'-11⅛"	4'-11⅛"	12" x 36¼"	22" x 33"	1½"	9"