

Carrier-Lyle Corporation

Division of CARRIER CORPORATION

850 Frelinghuysen Avenue, Newark, N. J.

Affiliated with the Carrier Engineering Corporation

District Sales Offices

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EAST ORANGE, N. J.	626 Central Ave.	BUFFALO, N. Y.	1146 Prudential Bldg.
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AIR CONDITIONING SYSTEM FOR HOMES IN WINTER

THE CARRIER WEATHERMAKER

The Carrier Weathermaker is a compact, self-contained gas fired unit; clean, efficient, economical to operate and quiet. It *warms* the air, *controls the temperature*, *maintains automatically the proper humidity* for health and comfort, *cleans the air* of floating dust particles, ridding it of germs. Distributes this cleaned, warmed, humidified air under pressure throughout the home.

Regulates Automatically Both Temperature and Humidity

The Weathermaker system for homes is the result of five years' research by Willis H. Carrier, President of the Carrier Engineering Corporation, and engineers associated with him to adapt to residential use in winter the principles of manufactured weather which were first developed and applied to industry and later to stores, theatres, offices and public buildings.

For more than two years these systems have been in use in homes throughout the

country so that manufactured weather for the home in winter may be considered an actual proven fact.

The most important feature of the system is its ability to regulate automatically both temperature and humidity and at the same time provide for manual control at the will of the home owner.

An attractively finished and accurately adjusted wall instrument, sensitive to air temperature and humidity, centrally located in the home accomplishes this. If at any time the owner desires to increase or decrease the temperature or the humidity he can do so by simply moving an indicator on this instrument.

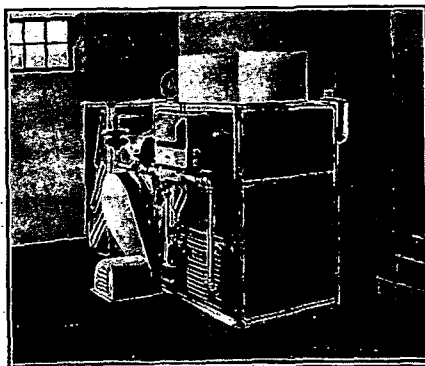
The forced distribution of air in the Weathermaker System makes for a compact arrangement of ducts. This, in addition to the saving caused by the elimination of fuel storage facilities, allows the architect to convert the basement into a usable part of the house.

And of even more value is the space that can be saved upstairs. Inconspicuous grilled openings for the conditioned air are provided flush with walls which may be painted to harmonize with the decorative scheme of the room. The artistic effect of fine paneling and woodwork is not marred by unsightly heating fixtures.

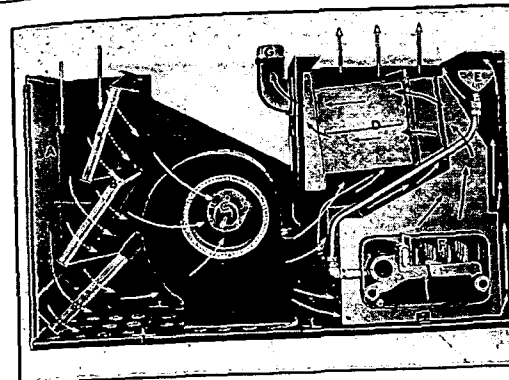
Every Weathermaker System is laid out and installed under direct supervision of company engineers cooperating with the consulting engineer and architect—studied as an individual case and planned according to the particular operating problem involved.

It is not an attachment for the present heating plant or an individual type unit, but a complete system of winter air conditioning in homes and for small commercial buildings.

In the near future the Weathermaker system will be adapted for Summer cooling by the addition of special equipment now under development.



Exterior View of Carrier Weathermaker



Sectional View Showing Details of Carrier Weathermaker Construction

A. Opening connected to duct through which air is drawn from house.

B. Filters through which air passes, removing dust, dirt and impurities.

C. Blower operated by electric motor, which draws air in and then passes it over and around the outside of heating sections (D).

D. Heating sections warmed by gas, which transmit heat to the air.

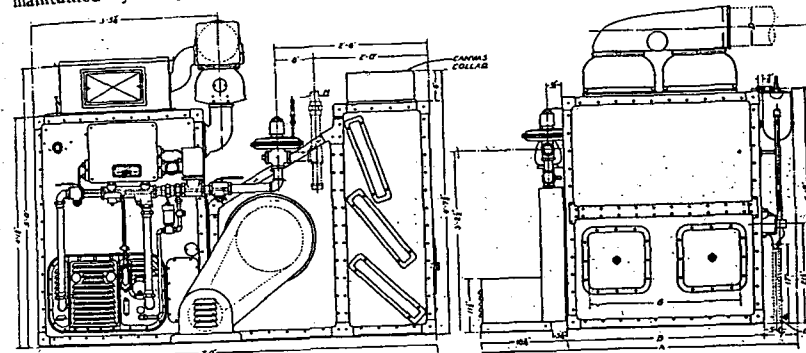
E. Vaporizer containing water which supplies moisture at the point where the clean warmed air leaves the Weathermaker unit. The temperature of this water is maintained by a separate gas burner con-

nected to a hygrostat upstairs by which the amount of humidity is regulated automatically.

F. Gas burners which supply heat to sections around which the air travels. The combustion chamber and gas passages through the heating sections are totally separate from the air travel.

G. Exhaust for waste gases which is connected to the chimney.

After the air is cleaned, warmed and humidified it enters a system of ducts taken off from the top of the unit above the heat interchanger and is distributed to the rooms through small pipes.



DIMENSIONS

No. Weather-maker	Over-all Length, Ft.	Over-all Width A, Ft.-In.	Height to Center of Flue Connection C, Ft.-In.	Flue Diam. D, In.	Return Air Opening, In.	Air Dis-charge Opening, In.
301	7	4-1	5-3/8	6	14x16	24x12
302	7	4-6/2	5-3/8	8	14x24	24x18
303	7	5-6/8	5-4/8	8	14x32	24x24
304	7	5-11/8	5-4/8	10	14x40	24x30
305	7	6-6/8	5-4/8	10	14x48	24x36

RATINGS

Output B.t.u. per Hr.	Motor Hp.	Gas Supply, In.	*Gas Consumption Cu. Ft. per Hr.	Shipping Weight, Lb.
100,000	1/4	1/4	220	2300
150,000	1/4	1/4	330	2450
200,000	1/2	1/2	440	3063
250,000	1/2	1/2	550	3300
300,000	1/2	2	660	3690

*Based on 550 B.t.u. gas with 3 1/2 inches water pressure at the regulator.