
**COMFORT AIR CONDITIONING**

**EVAPORATIVE COOLING, REFRIGERATION, ROOM UNITS**

**BRIAN ROBERTS**
Evaporative air cooler and air washer (The Practical Magazine, 1873).
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Room Air Cooling “Misnamed Air Conditioning” Units
Patents: Babcock 37, Moore 35, Schutz 34, Sherman 34, Terry & Komroff 36,
Makers: Carrier 28 & 29, Carrier-Brunswick 30, Crosley 39, Fedders 39, Frigidaire 28 & 29,
General Electric 30 & 31,43, Mueller 41, Philco 40, Servel 40, Westinghouse 42, York 44

(“Every day a good Day” You CAN MANUFACTURE WEATHER
Humidification-Dehumidification
Ventilation-Purification-Drying
Carrier Engineering Corporation
39 Cortlandt Street-New York
Boston Buffalo Philadelphia Chicago
VENTILATING MAGAZINE when you write.


Information and illustrations are taken from the Heritage Group Archives and Website.
BMR, Budleigh Salterton 2021.

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Pure Air is the One Important Essential necessary to perfect health in every station of life. THE CARRIER SYSTEM OF AIR PURIFYING AND HUMIDIFYING makes possible a healthful condition of air in every type of large building. Air breathed ordinarily is not pure. It must be washed free from the dust, dirt and germ-laden matter before it is absolutely pure and healthful. The CARRIER AIR WASHER and HUMIDIFIER washes air taken from outside the buildings—the fan distributing it to all rooms in a healthy condition and properly humidified.

The Eliminator Plates in the CARRIER AIR WASHER eliminate all infectious matter from the air. No system embodies such constructive principles and no system yet devised can equal ours in effectiveness. It is unquestionably perfect. Fully described in our literature, which is sent free on request. Also, at your request, our Engineer will call and lay before you a plan for your immediate requirement. Write today.

Carrier Air Conditioning Company
OF AMERICA
39 Cortlandt Street - - - - - NEW YORK
EVAPORATIVE COOLING 1906

Buffalo Air Washer

Patented in the United States (No. 808,697) and Canada (Nos. 95,719 and 96,771)

The first Air Washer in America borne the name "BUFFALO." We have been building them for years.

PRACTICAL OPERATION OF BUFFALO AIR WASHER

New Illustrated Catalog No. 97 just out. Send for a copy. Treats thoroughly and concisely on the Buffalo Air Washer and Humidifier.

BUFFALO AIR WASHER SHOWING NOZZLES AND SPRAY CHAMBER

Buffalo Forge Company
Buffalo, N.Y.
The Opening Souvenir Programme for the Davis Theatre Croydon - Tuesday December 18th 1928

Above - A Sketch of the Davis Theatre from the Theatre's opening souvenir programme on the 18th of December 1928

The Romance of the Davis Family

PIONEERS OF HIGH-CLASS CINEMA ENTERTAINMENT
The publicity manager is Mr. H. A. Arnold, from the publicity department of W. and F. Fil'm Service, Ltd.

Mr. Trask, the engineer-in-charge, has for years held a similar position at the Lavender Hill Pavillon; fourteen years under the Davis regime.

Miss Chant, the manageress of the cafe-restaurant, for years held a similar position at the Marble Arch Pavillon, and is an old employee of the Davis Family.

Mr. Morris Levey, the assistant house manager, has for some months been at the Shepherd's Bush Pavillon preparatory to taking over his duties at Croydon.

**Heating and Ventilating Apparatus**

The auditorium is warmed and ventilated in winter and cooled in summer on the most modern "Downward" system. The whole of the fresh air is introduced at the ceiling levels, whilst the vitiated air is exhausted at the floor levels in the stalls and balconies. By this means, cool air may be introduced in summer without causing objectionable draughts, whilst even in cooler weather, the temperature of the crowded auditorium may be prevented from rising unduly by the introduction of relatively cool air without creating draughts.

The auditorium is ventilated by means of 280 tons of fresh air per hour. This air is thoroughly washed and cooled in summer by passing through a large chamber filled with finely atomised water, and provided with special arrangements for preventing free moisture from passing into the building. This air washing chamber is the most modern "Mist" type air washer, by means of which the humidity of the air can be carefully regulated.

The air is warmed in winter by passing over steam-heated batteries, the temperature of the air being controlled from a specially designed control board in the boiler room. The engineer in charge can read the temperature of any part of the auditorium by means of an electrical temperature recorder fixed on the above control board, so that he may regulate the temperature of the theatre without leaving the boiler house.

*Right - An advertisement for Lloyd Loom Woven Furniture as supplied to the Davis' Theatre - From the opening souvenir programme for the Davis Theatre, Croydon, 18th of December 1928.*

The remaining portions of the building are heated by means of hot water low pressure radiators, supplied with hot water from a steam-heated calorifier in the boiler house.

The vitiated air is exhausted from the theatre at floor level by means of a very powerful motor-driven exhaust fan of special design.

Steam is supplied to the air heater and the hot water calorifier from two dry back oil-fired steam, boilers, the oil fuel being stored in two large tanks under the road adjoining the boiler house. The oil is pumped to the boilers by means of specially designed pumps, and the oil is atomised by means of compressed air.
AIR CONDITIONING 1922-1930
Carrier Engineering Co, Ltd
AIR CONDITIONING 1931, 1933
Carrier Engineering Co, Ltd

Broadcasting House
Equipped with Carrier Air Conditioning System

Cumberland Hotel
Equipped with Carrier Air Conditioning System

Consulting Engineer: M. T. Tussiby, M.I.C.E.
AIR CONDITIONING 1922
Carrier Engineering Co, Ltd

The London County Hall
Equipped with Carrier Air Conditioning System

Architect: Ralph Knott, Esq., F.R.I.B.A.

The London County Hall
Equipped with Carrier Air Conditioning System

Architects: Knott & Collins
H. Stone Collins, F.R.I.B.A.
AIR CONDITIONING 1930, 1932
Carrier Engineering Co, Ltd

[Images of theater interiors with air conditioning systems]
AIR CONDITIONING 1929
Carrier Engineering Co, Ltd

Architects: Frank Verity, F.R.I.B.A. and Auguste Bluysen

The Paramount Theatre
Paris
Equipped with Carrier Air Conditioning System
Theatre Seating showing
Air Extraction Mushrooms
Carrier Air Conditioning System
AIR CONDITIONING 1930
Carrier Engineering Co, Ltd


Astoria Cinema, Streatham, London.
AIR CONDITIONING 1930
Carrier Engineering Co, Ltd

AIR CONDITIONING
Carrier Engineering Co, Ltd

Warner Theatre, Leicester Square, London.
AIR CONDITIONING
Carrier Engineering Co, Ltd

Warner Theatre, Leicester Square, London.
ABSORPTION REFRIGERATION 1903
Carbondale Machine Company

BIG COOLING PLANT IN STOCK EXCHANGE.

Three 150 Ton Machines Will Try to Keep the Brokers' Tempers Even—This Practically Marks the Opening of a New Era in Refrigeration.

New York Stock Exchange.
THE PONTIFEX-HENDRICK
ICE MAKING AND REFRIGERATING MACHINE
(REFRIGERANT—ANHYDROUS AMMONIA.)
SPECIALY ADAPTED FOR LOW TEMPERATURES IN
FREEZING AND COLD STORAGE HOUSES, CHEMICAL
WORKS, OIL REFINERIES, FISH FREEZERS, FUR STOR-
AGES, HOTELS AND RESTAURANTS, ETC., ETC.

The Carbondale Machine Co.,
CARBONDALE, PA.

NEW YORK: 141 BROADWAY.  CHICAGO: 61 PORTLAND BLOCK.
BOSTON: 544 TREMONT BUILDING.
PITTSBURG: 727 PARK BUILDING.

New York Stock Exchange.
Brown Boveri
Refrigerating Turbo-Compressors

BROWN, BOVERI & COMPANY
LIMITED

BADEN (SWITZERLAND)
56
VICTORIA STREET,
LONDON,
S.W. 1.

1827 E - IX 1

WESTGARTH-BROWN BOVERI, LTD.

April, 1932
Keep Cool
AT THE
Rivoli

We have invested over $100,000 in a refrigerating cooling plant to keep you cool and comfortable when the world is sweltering. Unseen, unheard, restless are the huge motors with a combined pulling power of 221 horses—representing but a small part of the marvellous equipment which absolutely assures a temperature that is just right. Delightfully refreshing days and evenings all summer at

The RIVOLI THEATRE
BROADWAY at 49th STREET
THE HOME OF Paramount Pictures
YORK MFG, CO₂ REFRIGERATION 1929
State/Kings Theatre, Brooklyn, NYC
YORK MFG, CO₂ REFRIGERATION 1929
State/Kings Theatre, Brooklyn, NYC
CENTRIFUGAL REFRIGERATION 1946
Fox Theatre, Atlanta, Georgia
REFRIGERATION-SPRAY AIR WASHER
Fox Theatre, Atlanta, Georgia
CHILLED WATER REFRIGERATION 1970
Cable & Wireless Offices, Hong Kong
CENTRIFUGAL REFRIGERATION 1972
Trane- Kai Tak Airport, Hong Kong
ROOM AIR CONDITIONING UNITS 1920s
Frigidaire Room Cooler, USA
ROOM AIR CONDITIONING UNITS
General Electric Room Cooler, USA
ROOM AIR CONDITIONING UNITS
General Electric Room Cooler, USA
Placing Manufactured Weather within the reach of all Industries

Announcing the Carrier Unit Air Conditioner

Here is the most revolutionary step ever taken in the science of Air Conditioning.

1. Carrier Engineers, the pioneers and leaders in the design, development and application of systems to create and control any desired atmospheric conditions within buildings, have now perfected the Carrier Unit Air Conditioner.

2. This Unit performs every function of the complete Carrier Central Station Air Conditioning Systems which for 15 years have been making “Every day a good day” in many of the great industrial plants of the world. The Unit is not a miniature humidifier copied from the standard central station equipment, but a completely novel design developed under the direction of Willis H. Carrier to place Manufactured Weather within the means of any manufacturer.

3. There is an economic gain which directs whether the Carrier Unit Air Conditioner or the Carrier Central Station System shall be used in manufacturing plants. Upon request, Carrier Engineers will present all of the facts, without obligation, to manufacturers.

Every Manufacturer, large or small, every Engineer should obtain immediately the full details of the Carrier Unit Air Conditioner. Write for Bulletin 103, The Carrier Unit Air Conditioner. Ask for a visit from one of our engineers.

Carrier Engineering Corporation
ROOM AIR CONDITIONING UNITS
Carrier Engineering before 1930
In 1932, Henry Galison and Charles Neeson invented an air cooled, R12 room cooler, for which they were awarded the John Scott medal in recognition of their achievement.

The records show that by 1929, commercial sales of room air conditioners were underway, and thus was launched a whole new industry. These early machines were mainly free standing, console types, with water-cooled condenser, belt driven compressors.
ROOM AIR CONDITIONING UNITS
Moore Patent 1943
ROOM AIR CONDITIONING UNITS
Babcock Patent 1946
ROOM AIR CONDITIONING UNITS 1933
Carrier-Brunswick "Atmospheric Cabinet"
ROOM AIR CONDITIONING UNITS
Crosley and Fedders

CROSLEY Cleans as it Dries as it
cools the air comfortably!

FOR BETTER HEALTH, GREATER COMFORT

FEDDEERS
AIR CONDITIONER
ROOM AIR CONDITIONING UNITS
Window Box: Philco top pic, Servel below
ROOM AIR CONDITIONING UNITS
Mueller Wall Mounted

A New Refreshing Comfort - Appeal

Of all the fine qualities features you build into your home, none will create more "boy appeal" in the minds of your prospect than being able to tell them your homes have cooling. Think of the comfort, modern living, and "pride of ownership" advantages cooling offers. The value of cooling has already been demonstrated in the commercial field — in stores, restaurants and theaters. Until recently, absence of air conditioning has been a "nuisance" for the home. Right now, it is here again.

Soon, perhaps, this year, summer air conditioning will be a "must" in today's society if you want to sell your homes at a profit.

Keep in mind that at least a part of the cost for cooling equipment may be offset by good planning.

As an example, with cooling it would not be necessary to provide screens for those rooms that are cooled, or to provide a screen door for each.

Mueller Climatrol
ROOM AIR CONDITIONING UNITS
Westinghouse Window Box

make your own weather

with Westinghouse ROOM AIR CONDITIONERS

WHEREVER YOU LIVE YOU CAN NOW ENJOY COOL, DRY, RESTFUL COMFORT
with the New Westinghouse Room Air Conditioner
All new G.E. Thinline Air Conditioner takes up ⅓ less space!

G.E. Thinline is 16½ inches thin... no unsightly overhang!

Why waiter when you can switch from hot, hummid misery to cool, cool comfort with a G-E Thinline Room Air Conditioner?

Here is a completely new concept in room air conditioners that offers top performance, yet actually takes up one-third less space than previous corresponding models.

It fits flush with your window sill and has no unsightly overhang console. And not only does it offer you amazing cooling capacity and dehumidification—its high Power Factor Design assures economy of operation.

You have a choice of many different comfort-temperatures just at the flick of a switch. Delightfully cooled, filtered air rushes quietly into your rooms, makes your days and nights comfortable all summer long! See your G-E dealer today for a demonstration or for more information—his name is listed in your classified phone book.

General Electric Company, Room Air Conditioner Department, Appliance Park, Louisville 1, Kentucky.

Most models available in Canada.

Progress Is Our Most Important Product

GENERAL ELECTRIC
ROOM AIR CONDITIONING UNITS
York Window-Wall Box

The YORK Snorkel
...has the thinnest line of all!
Just 12 3/4” front to back