Carrier Engineering



EMPIRE THEATRE, LEICESTER SQUARE, LONDON

Theatres are listed in alphabetical order by name





INDOOR AIR BY CARRIER

Describing
The Science of
VENTILATING
WARMING
COOLING
for
PUBLIC BUILDINGS



Carrier Fngineering Company Itd 24 Buckingham Gate, London.

Theatres

Difficult Problem HE modern cinema theatre presents a very difficult problem in ventilation owing to the many hours a



day during which it is in continuous use. Once the audience is admitted, the maintenance of comfortable conditions is dependent upon an adequate supply of cool dry air evenly and slowly distributed throughout the auditorium. This is true for all theatres, once they have been in use sufficient time for the building materials to dry out thoroughly.

Downward Diffusion The only way of attaining the ideal is to adopt the Carrier Patent Downward Diffusion system whereby the incoming air enters at ceiling level to descend and diffuse gently in virtue of its greater weight compared to the warmer air which it displaces at the lower level.

In this way, the air during its downward passage absorbs the bodily heat and moisture given off by the audience, reaching them at the temperature necessary for their comfort. The air at this point being uncontaminated by dirt and dust is finally removed at the floor level through exhaust openings.

To avoid any cold draughts annoying the audience, the cooling of the theatre is carried out in two stages.

Graded Cooling

In a separate mixing chamber the supply of cold or cooled fresh air is first used to cool a body of re-circulated air drawn from the auditorium; the mixture then, at a temperature of only 7 degrees below that of the theatre, is distributed from above so that in rising in temperature these 7 degrees during its downward passage it absorbs the heat given off by the audience and reaches them at the ideal temperature and humidity.

Meeting Requirements

The Carrier Downward system of ventilation is guaranteed to pass all requirements of the Ventilation and Fire Department of the London County Council, both for the Cinema or Legitimate Theatre.

Theatre owners have given it as their opinion that the chief reason for the poor attendance at Cinema Theatres during the hot summer months is due to the Englishman's proverbial love of fresh air.

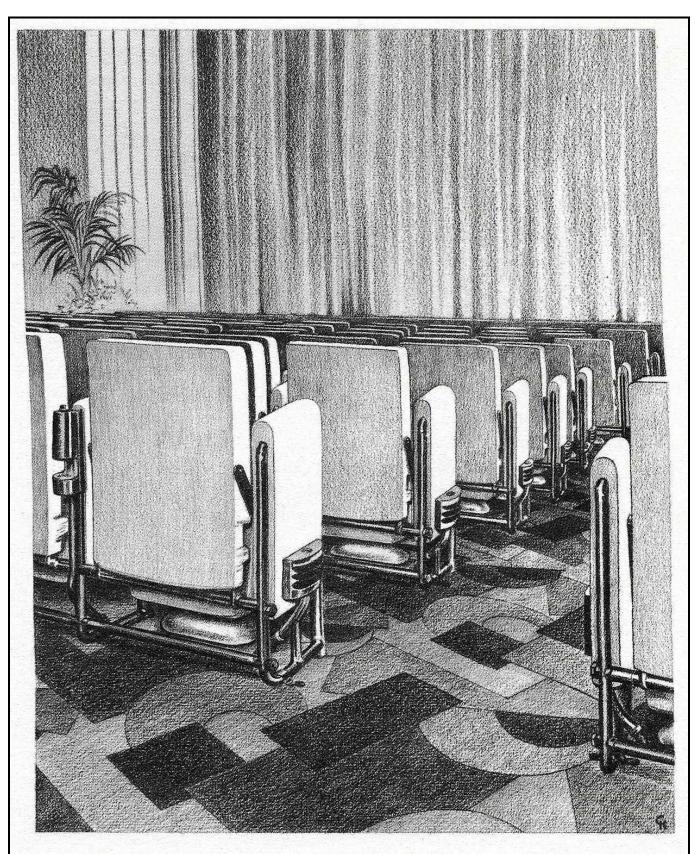
This is undoubtedly true, but it is all the more reason why a comfortable atmosphere should be provided in the theatre



during the hot summer days, maintaining inside the theatre an atmosphere superior to that prevailing outside both as regards temperature and humidity. This would be a certain method of attracting patrons and filling the theatres during what has hitherto been regarded as an unavoidably poor business season.

Carrier Air Conditioning Equipment is now providing the ideal atmosphere in over sixty-three theatres.

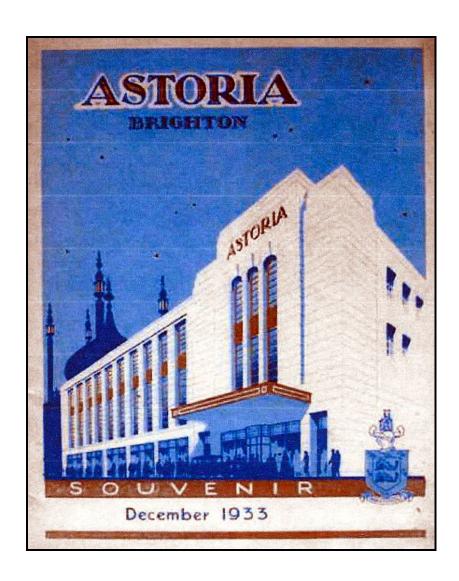
Results



Theatre Seating shewing Air Extraction Mushrooms Carrier Air Conditioning System

Astoria Theatre

BRIGHTON



Date Built: 1933

Seating Capacity: 1823

Architect: Edward A Stone

Cooling: Carrier Engineering Corporation

Astoria Theatre

BIIXTON, LONDON



Date Built: 1929

Seating Capacity: nearly 3000

Architect: Edward A Stone

Cooling: Carrier Engineering Corporation

Astoria Theatre

FINSBURY PARK, LONDON

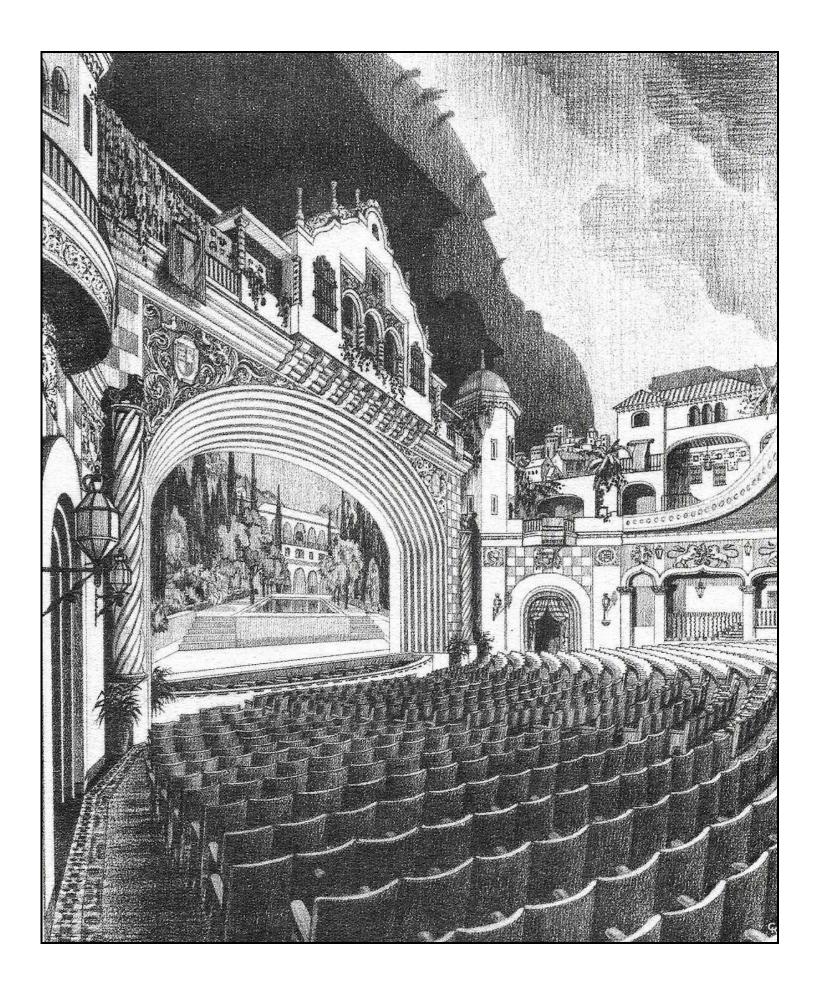


Date Built: 1930

Seating Capacity: 3300

Architect: Edward A Stone

Cooling: Carrier Engineering Corporation



Astoria Theatre

STREATHAM, LONDON

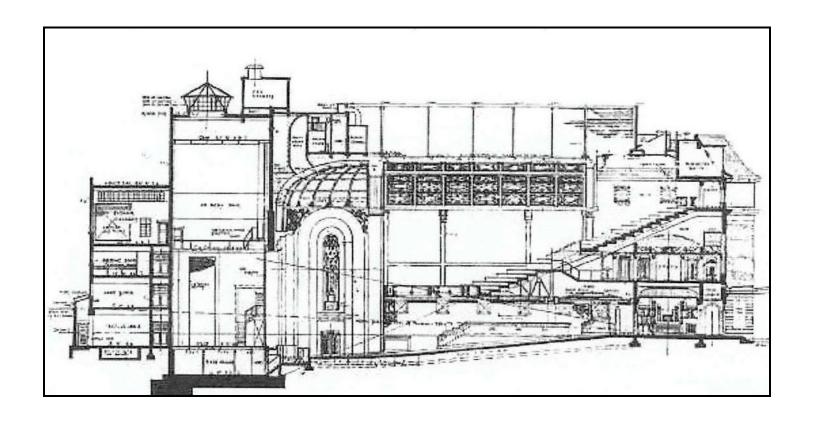


Date Built: 19303

Seating Capacity: 3000

Architect: Edward A Stone

Cooling: Carrier Engineering Corporation





Carlton Theatre

HAYMARKET, LONDON



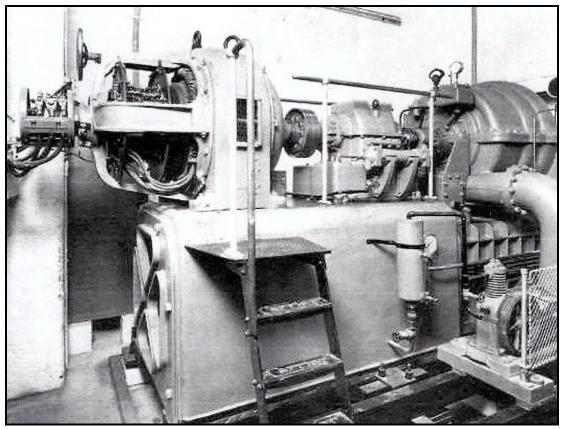
Date Built: 1927

Seating Capacity: 1159

Architect: Frank T Verity

Air Conditioning: Carrier Engineering Corporation





Carrier centrifugal refrigeration at the Carlton Theatre This was the first fully air conditioned cinema in Britain The Carrier centrifugal was the fourth to be installed in the UK

Empire Theatre

LEICESTER SQUARE, LONDON

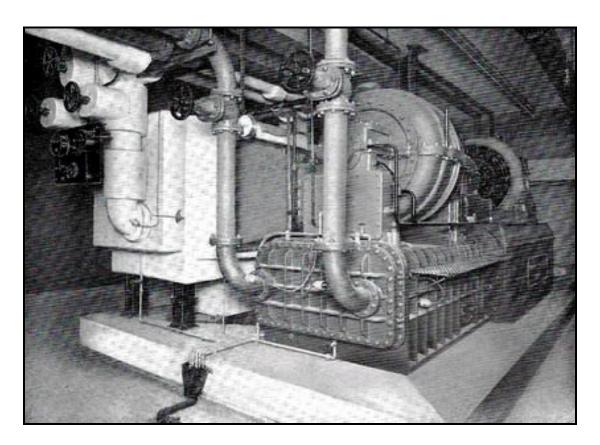


Date Opened: 1928

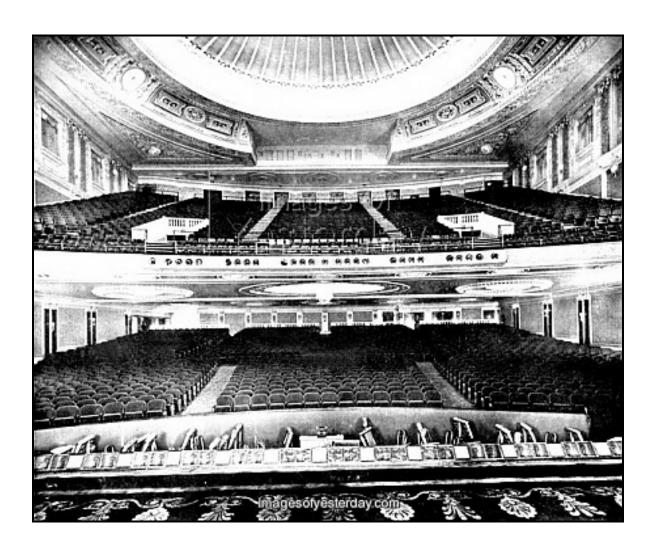
Seating Capacity: 3226

Architect: Thomas W Lamb & Frank Matcham Practice

Air Conditioning: Carrier Engineering Corporation Refrigeration: Carrier centrifugal chiller 250 TR



Carrier 250 TR chiller



EMPIRE THEATRE



DINNER AT EIGHT



Paramount Theatre

LEEDS

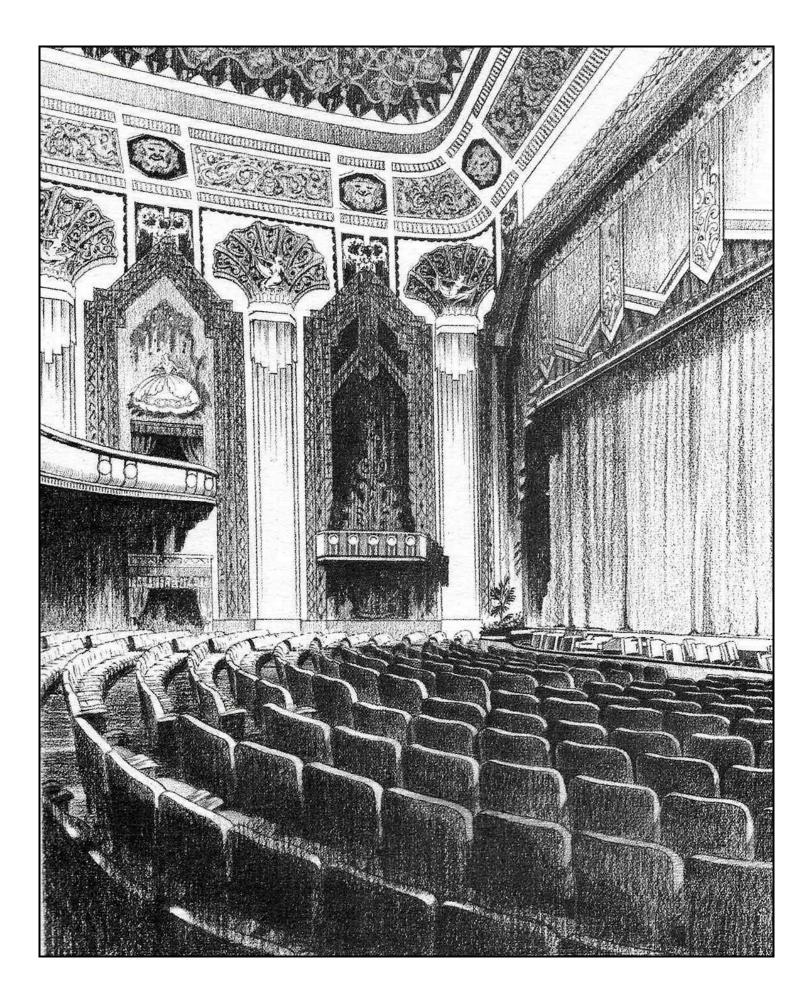


Date Built: 1932

Seating Capacity: 2500

Architect: Frank T Verity

Air Conditioning: Carrier Engineering Corporation



Paramount Theatre

TOTTENHAM COURT ROAD, LONDON



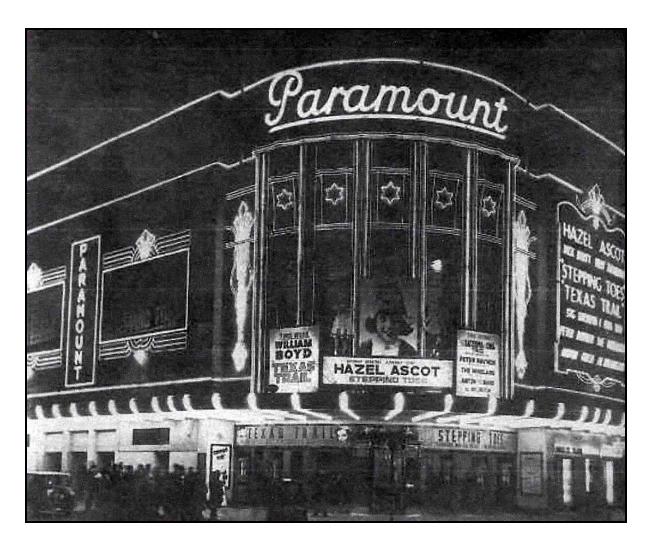
Date Built: 1936

Seating Capacity: 2568

Architect: Frank T Verity & Sam Beverly

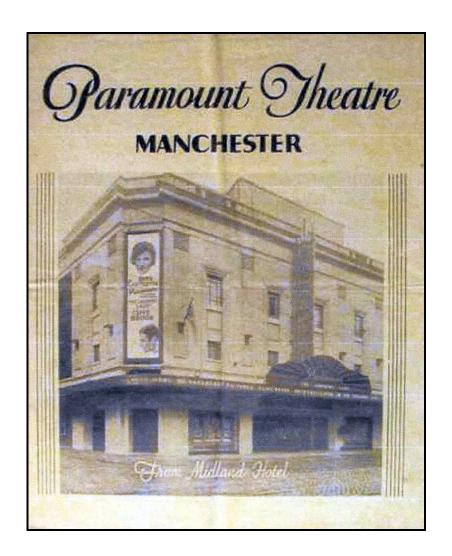
Air Conditioning: Carrier Engineering Corporation





Paramount Theatre

MANCHESTER



Date Built: 1930

Seating Capacity: 2920

Architect: Frank T Verity & Sam Beverly

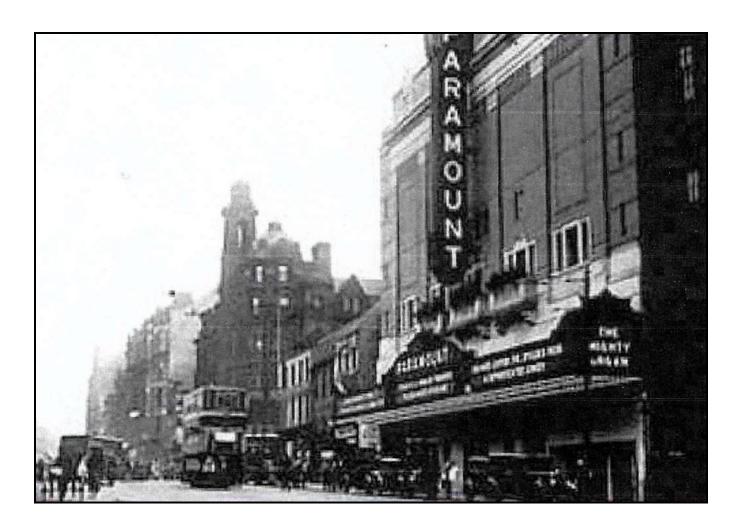
Air Conditioning: Carrier Engineering Corporation

Refrigeration: Carrier centrifugal chiller

Model 8.E.R7.7, Number 02037

Paramount Theatre

NEWCASTLE



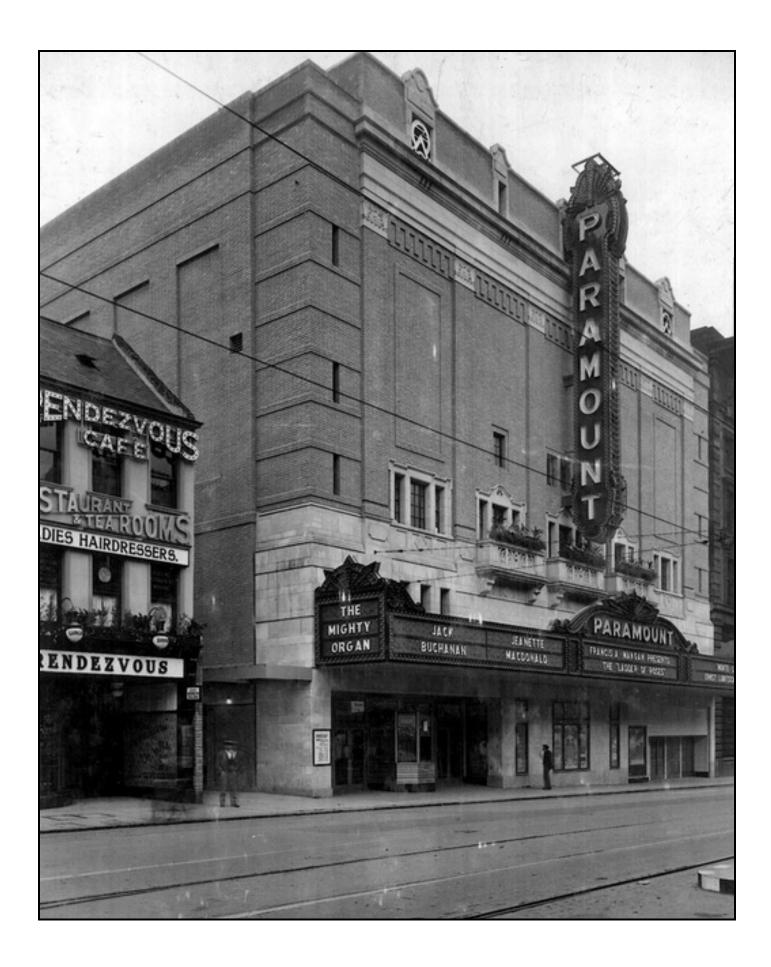
Date Built: 1931

Seating Capacity: 2600

Architect: Frank T Verity & Sam Beverly Cooling: Carrier Engineering Corporation

Mechanical ventilation with air washer, possibly

Carrier refrigeration



Warner Theatre

LEICESTER SQUARE, LONDON

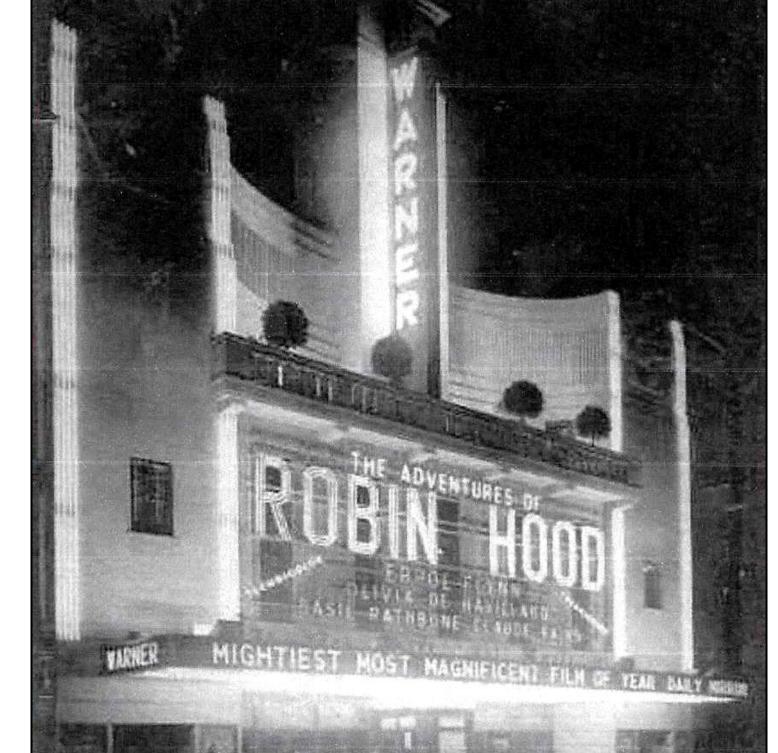


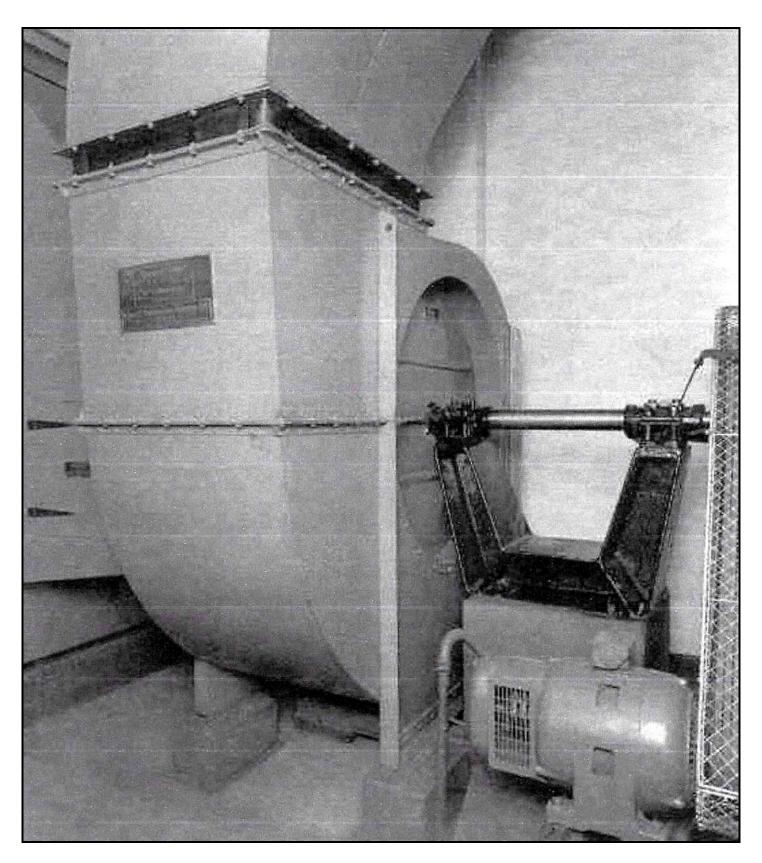
Date Built: 1938

Seating Capacity: 1789

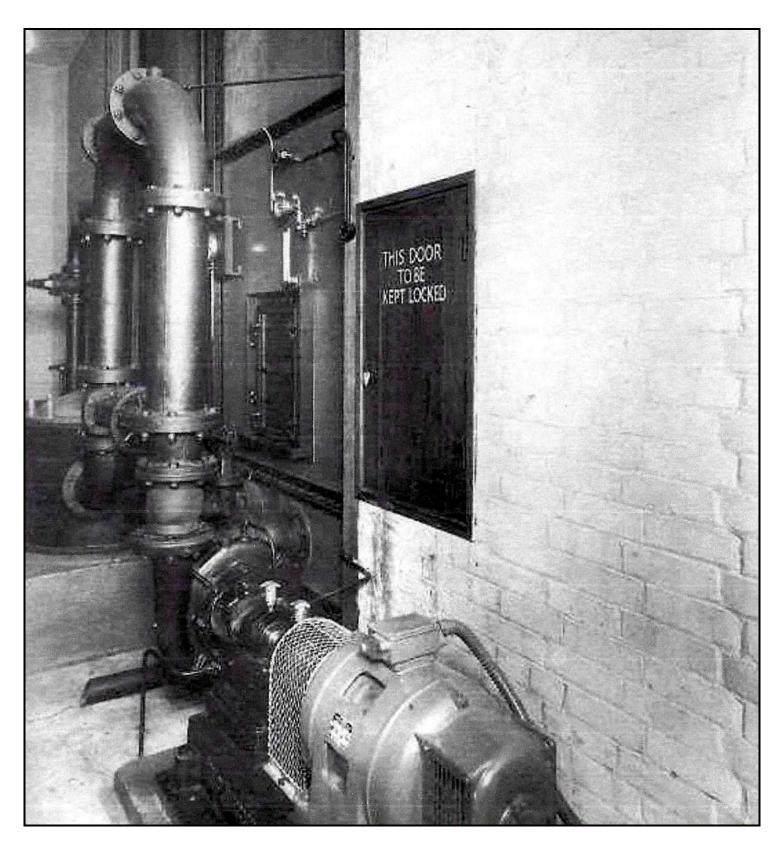
Architect: Edward A Stone & T R Somerford

Air Conditioning: Carrier Engineering Corporation





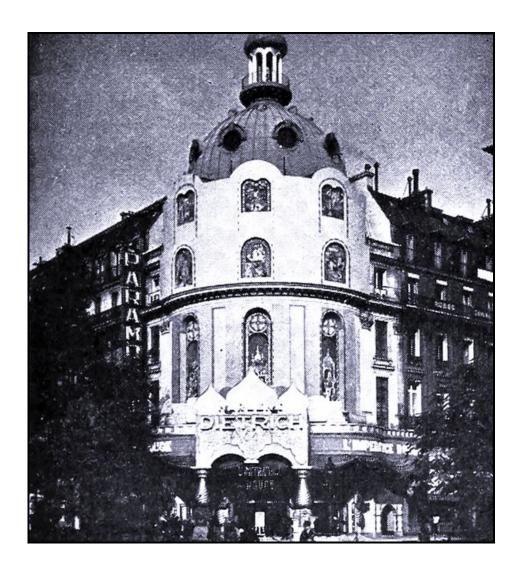
Main fan



Chilled water air washer

Paramount Theatre

PARIS, FRANCE

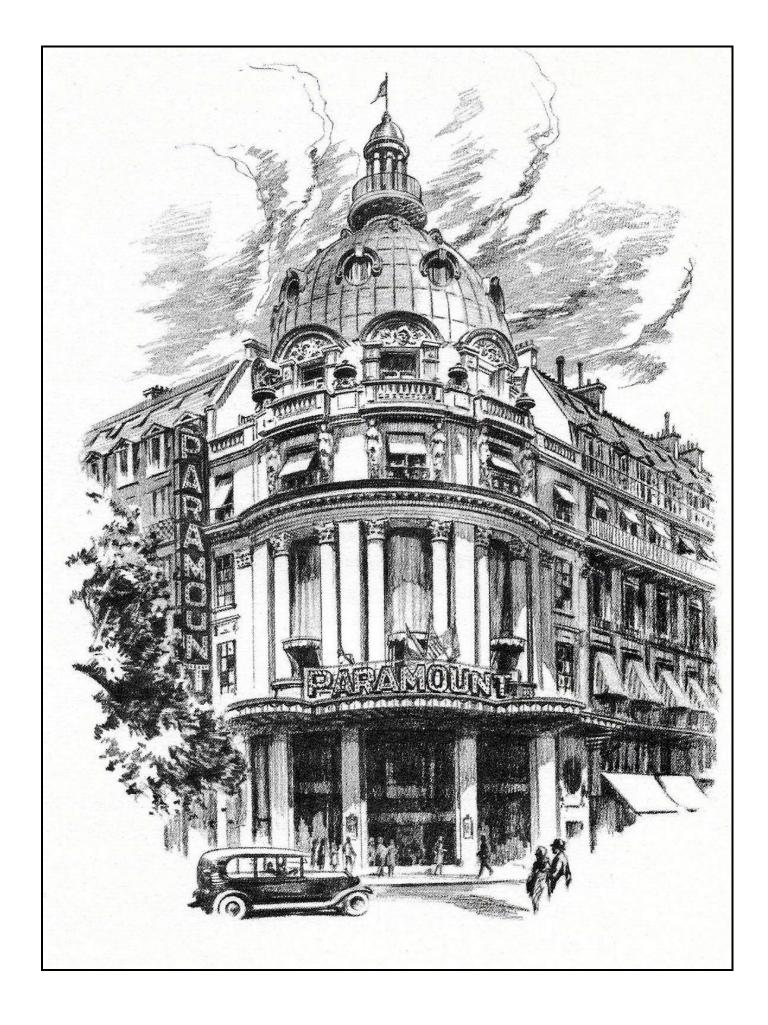


Date Built: 1928

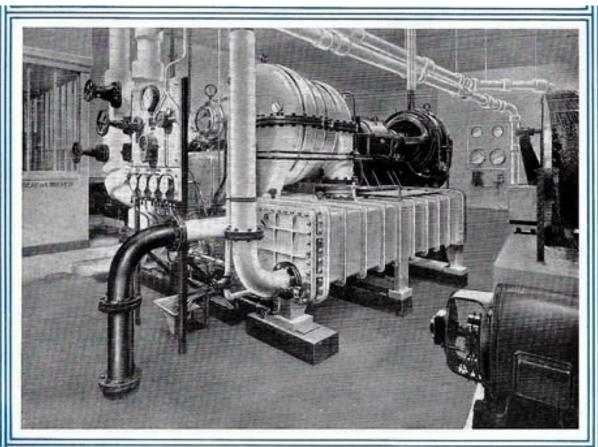
Seating Capacity: 2187

Architect: Frank T Verity & Auguste Bluysen

Air Conditioning: Carrier Engineering Corporation







Showing the Carrier Centrifugal Refrigerating Machine, having a capacity of 150 ice melting tons, installed at the Paramount Theatre, Paris, in conjunction with the Carrier Air Conditioning System for the cooling of the Auditorium.



Guarantee

The Carrier System of Hir Conditioning is guaranteed to Automatically maintain constant conditions of temperature and humidity in any given closed space, full or empty, night or day, winter and summer, without draughts.





