

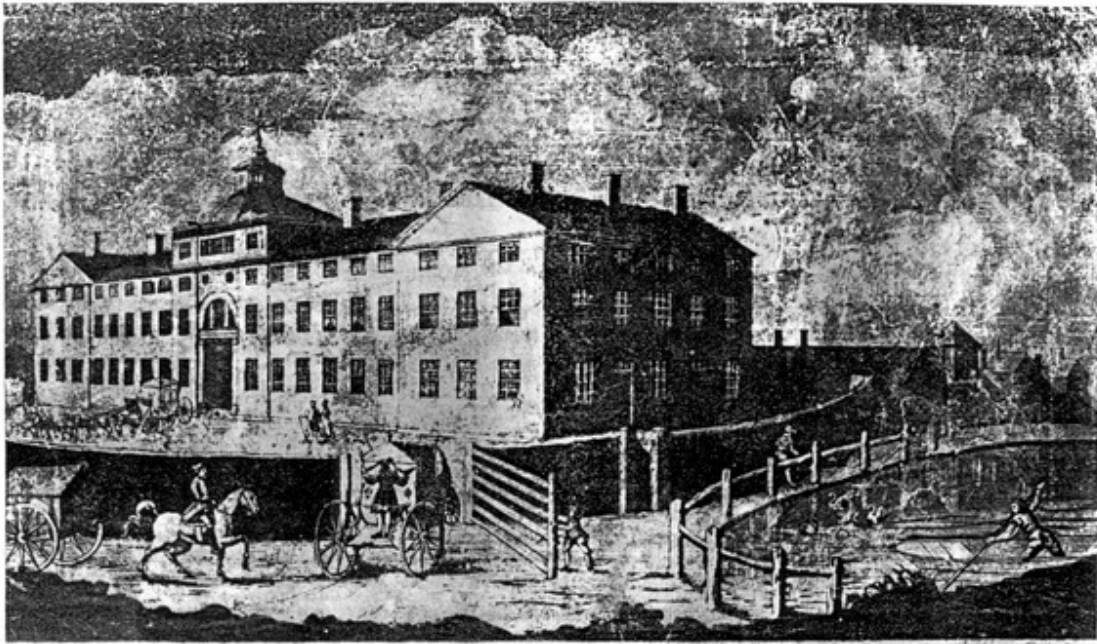
A
SERIES OF ADVERTISEMENTS
which appeared in the
ARCHITECTURAL PRESS
1941—2
COMMEMORATING
HADENS'
125th ANNIVERSARY



JAMES WATT

G. N. HADEN & SONS LTD
* * *Estd. 1816*

HEAD OFFICE : 19-29 WOBURN PLACE · LONDON · W.C.1
MANCHESTER · BIRMINGHAM · GLASGOW · BRISTOL · BOURNEMOUTH · TORQUAY
LINCOLN · LIVERPOOL · NEWCASTLE · YORK · BRIGHTON · ABERDEEN



Mr. Boulton's Manufactory at SOHO near BIRMINGHAM.

Mr. Boulton's Manufactory at Soho, near Birmingham, circa 1781.

JAMES WATT and Matthew Boulton entered into partnership in 1772 at the famous Soho Foundry in Birmingham. There Watt perfected his steam engine, and there also began the story of Hadens, another firm destined to become the pioneers of a new engineering industry.

HEATING
BY ALL SYSTEMS
HIGH PRESSURE HOT WATER
SYSTEMS FOR HEATING AND PROCESS WORK
AIR CONDITIONING AND VENTILATION
PLUMBING & SANITATION, ELECTRIC LIGHTING & POWER



JAMES WATT

IN WAR TIME
A.R.P. VENTILATION
AND GAS FILTRATION
HOT WATER SUPPLIES
FOR CLEANSING STATIONS
PATENT DEINFESTING APPARATUS FOR CLOTHING, ETC.

G. N. HADEN & SONS LTD

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FULLY EQUIPPED BRANCHES AT:
 Manchester 2, 4 Albert Square - - - - - Blackfriars 6356
 Birmingham 3, 45 Great Charles Street - - - - - Central 8591
 Glasgow C.2, 86 St. Vincent Street - - - - - Central 3156
 Bristol 1, Orchard Street - - - - - Bristol 20286
 Bournemouth, Avon Works, Avon Road - - - - - Boscombe 512
 Torquay, Castle Road - - - - - Torquay 3831
 Lincoln, Guildhall Street - - - - - Lincoln 993
 Newcastle-on-Tyne, 13 Mosley Street - - - - - Newcastle-on-Tyne 26780

York, 39 Micklegate - - - - - York 4256
 Aberdeen, 80-82 Upper Denburn - - - - - Aberdeen 391

Temporary Address
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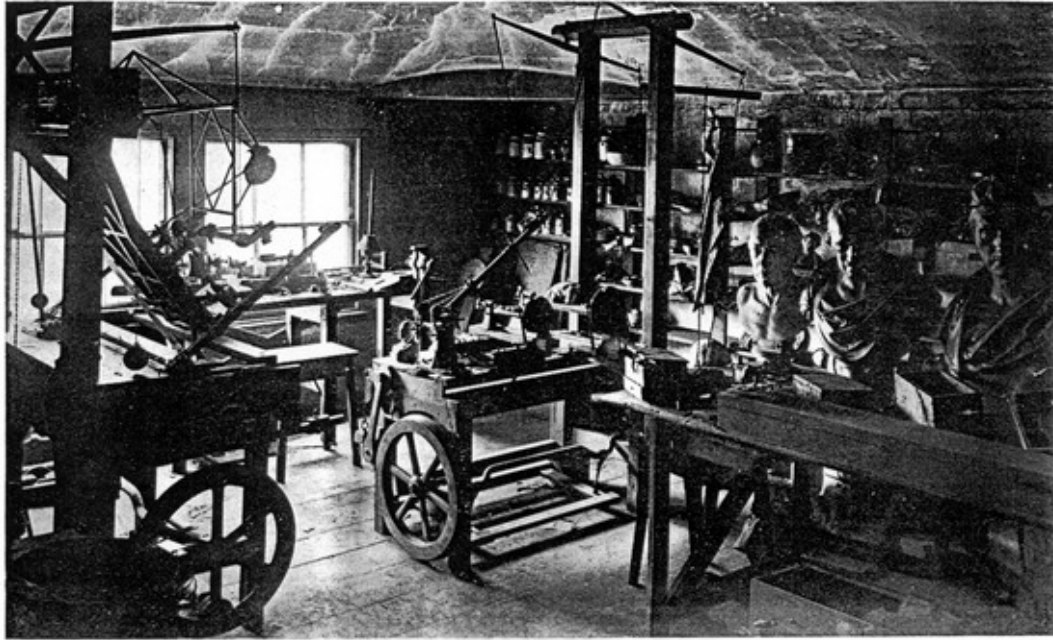
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Wires: Warmth, Westcent, London

125 YEARS OF ENGINEERING DEVELOPMENT

Series No. 2.



By courtesy of J. H. Tangye, Esq.

James Watt's Workshop at Heathfield, circa 1895.

TOWARDS the end of the 18th century George Haden entered the employ of Boulton & Watt at Soho Foundry, Birmingham. There he served the great James Watt as foreman of the copying press department, as the buyer of timber for the beams of his engines, and as assistant to Murdock in the erection of industrial gas works. By his will James Watt left "to George Haden, an honest man, five pounds."

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Glasgow C.2, 86 St. Vincent Street	-	-	-	-	-	Central 3156
Bristol 1, Orchard Street	-	-	-	-	-	Bristol 20286
Bournemouth, Avon Works, Avon Road	-	-	-	-	-	Botcombe 312
Torquay, Castle Road	-	-	-	-	-	Torquay 3831
Lincoln, Guildhall Street	-	-	-	-	-	Lincoln 993
Newcastle-on-Tyne, 13 Mosley Street	-	-	-	-	-	Newcastle-on-Tyne 26780

York, 39 Micklegate	-	-	-	-	-	York 4256
Aberdeen, 80-82 Upper Denburn	-	-	-	-	-	Aberdeen 391

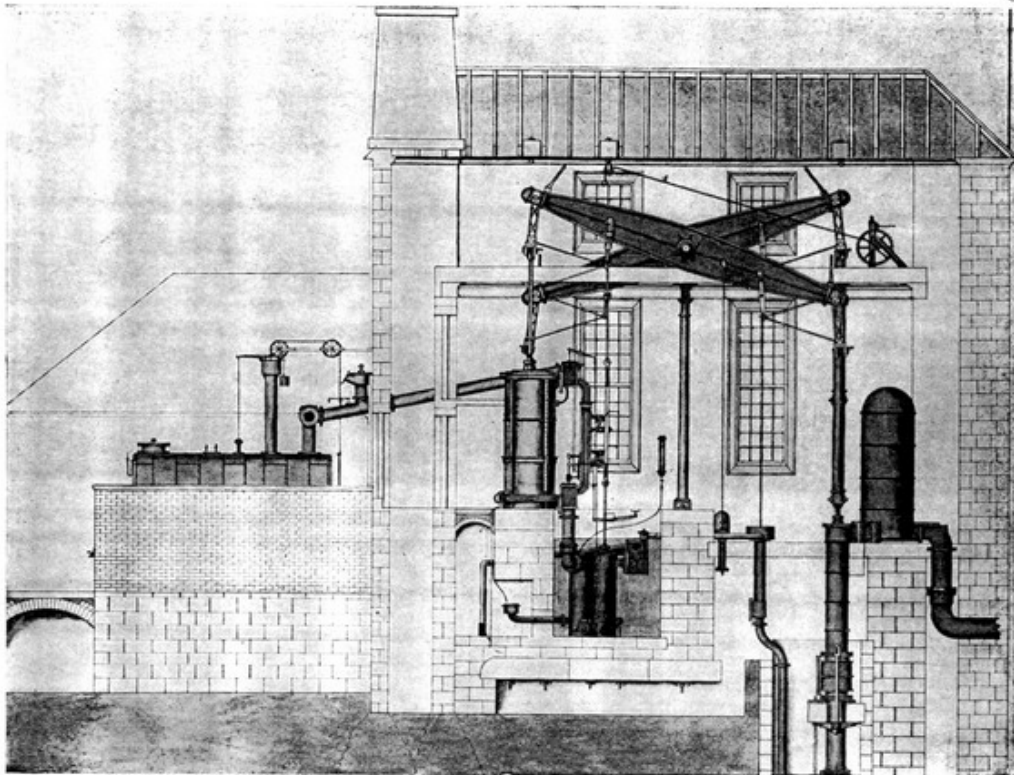
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Liverpool: 4 Albert Square, Manchester 2	-	-	-	-	-	Blackfriars 6356

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Pumping engines at Cranstone Hill Water Works, Glasgow. From the drawing by George Haden, 1815.

IN the first decade of the 19th century George Haden apprenticed his son, of the same name, to his employers, Boulton & Watt. In 1815 James Watt entrusted him with the erection of two pumping engines in one house at Cranstone Hill Water Works, Glasgow, the first steam pumping plant built for a Corporation's use.

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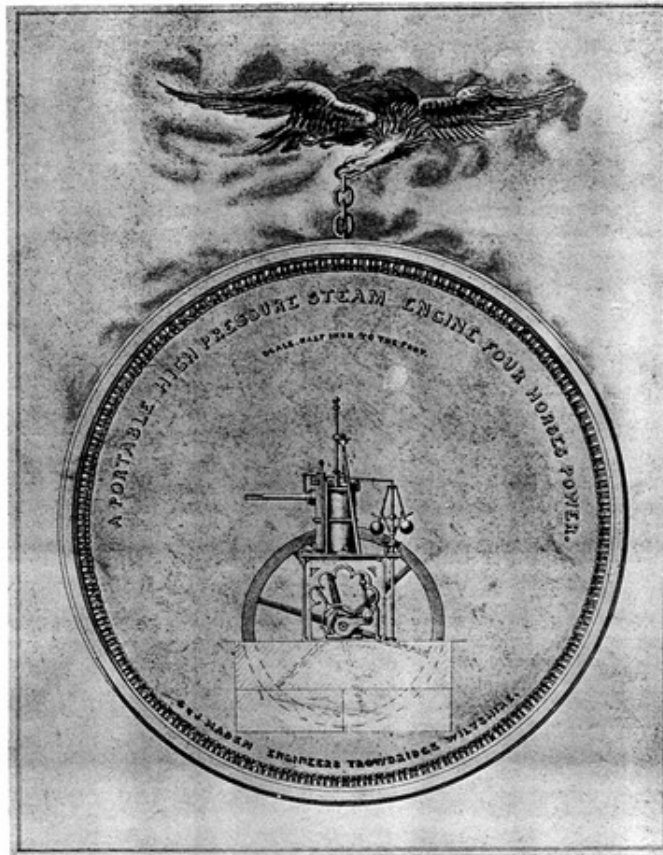
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Wires: Warmth, Westcent, London

125 YEARS OF ENGINEERING DEVELOPMENT

Series No. 4.



From a drawing by George Haden, circa 1825

IN 1816 George Haden undertook the erection of Boulton & Watt's engine in the West of England Cloth Mills. There, with the blessing of his old firm, he and his brother founded the firm of G. & J. Haden at Trowbridge, Wiltshire, as general engineers, and makers of steam engines and machines under James Watt's patents and their own.

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★ ★ Estd. 1816

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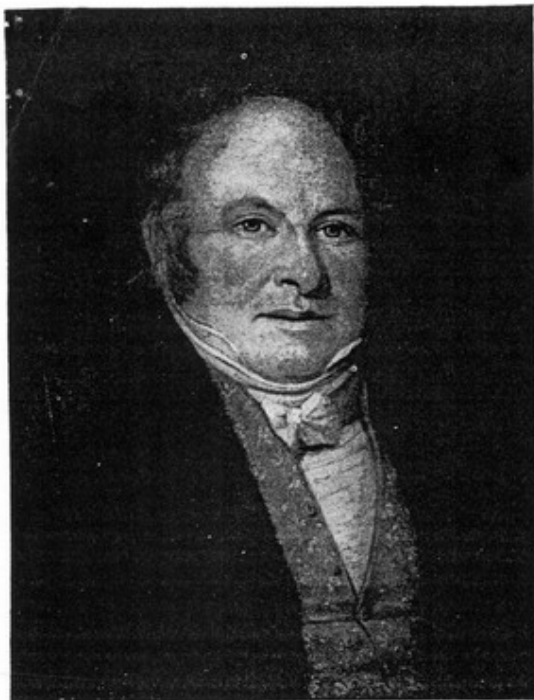
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Bristol 1, Orchard Street	- - - -	- Bristol 20286
Bournemouth, Avon Works, Avon Road	- - - -	- Boscombe 512
Torquay, Castle Road	- - - -	- Torquay 3811
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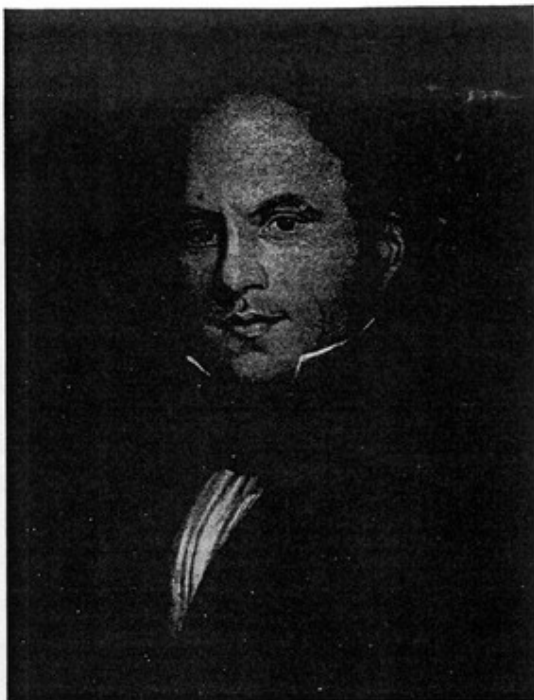
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Trowbridge 722



GEORGE HADEN, M.I.C.E.
1788—1855



JAMES HADEN
1791—1872

Founders of the Firm.

IN the year 1819 the brothers G. & J. Haden, founders of the firm, designed and patented a warm air stove. The first was fitted in Matthew Boulton's house, and before long warm air systems were built into public and domestic buildings from Cornwall to Caithness.

To-day stoves of very similar design, made by the company and fired by gas, warm the modern hypocaust at Liverpool Cathedral.



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Torquay, Castle Road	Torquay 3837
Lincoln, Guildhall Street	Lincoln 993
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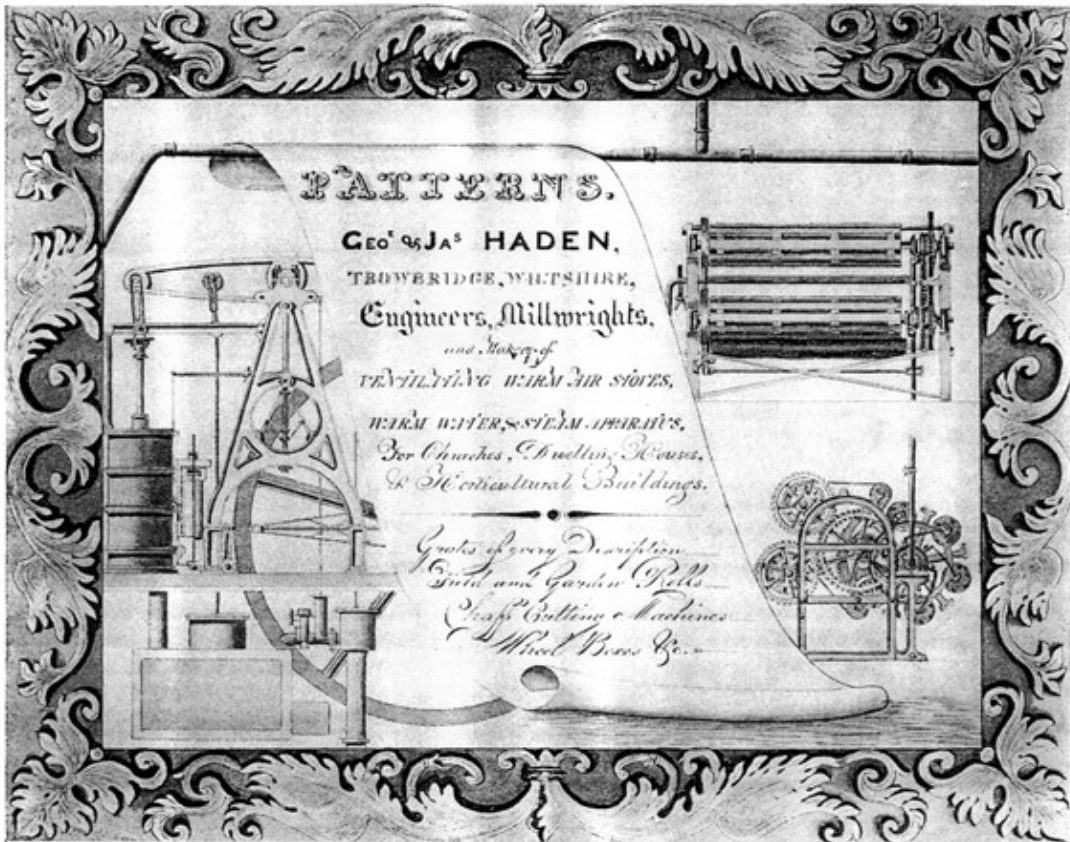
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Wires: Warmth, Westcent, London

125 YEARS OF ENGINEERING DEVELOPMENT

Series No. 6.



From the original drawing for an early Haden advertisement. Circa 1825.

EARLY in the last century, the brothers Haden began to combine the warming and ventilation of buildings by air with warming by hot water, often from one furnace. They produced a patent rubber-ringed joint for cast-iron piping, which simplified fixing, and which still stands the higher pressures of modern practice in Westminster Abbey and a dozen Cathedrals.

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Liverpool: 4 Albert Square, Manchester 2	Blackfriars 6356

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Affiliated Company: HADENS ENGINEERING CO. LTD., 199 Pearse Street, Dublin, C.5 Dublin 43987



*Grille with keyholes,
cast by the company.*

FIFTY years after the foundation of the firm, the sectional radiator was still unknown. In those days coils of pipes were concealed in cast casings, or below grilles. The foundry of the company produced many of these fine examples of the art of the patternmaker and the moulder.



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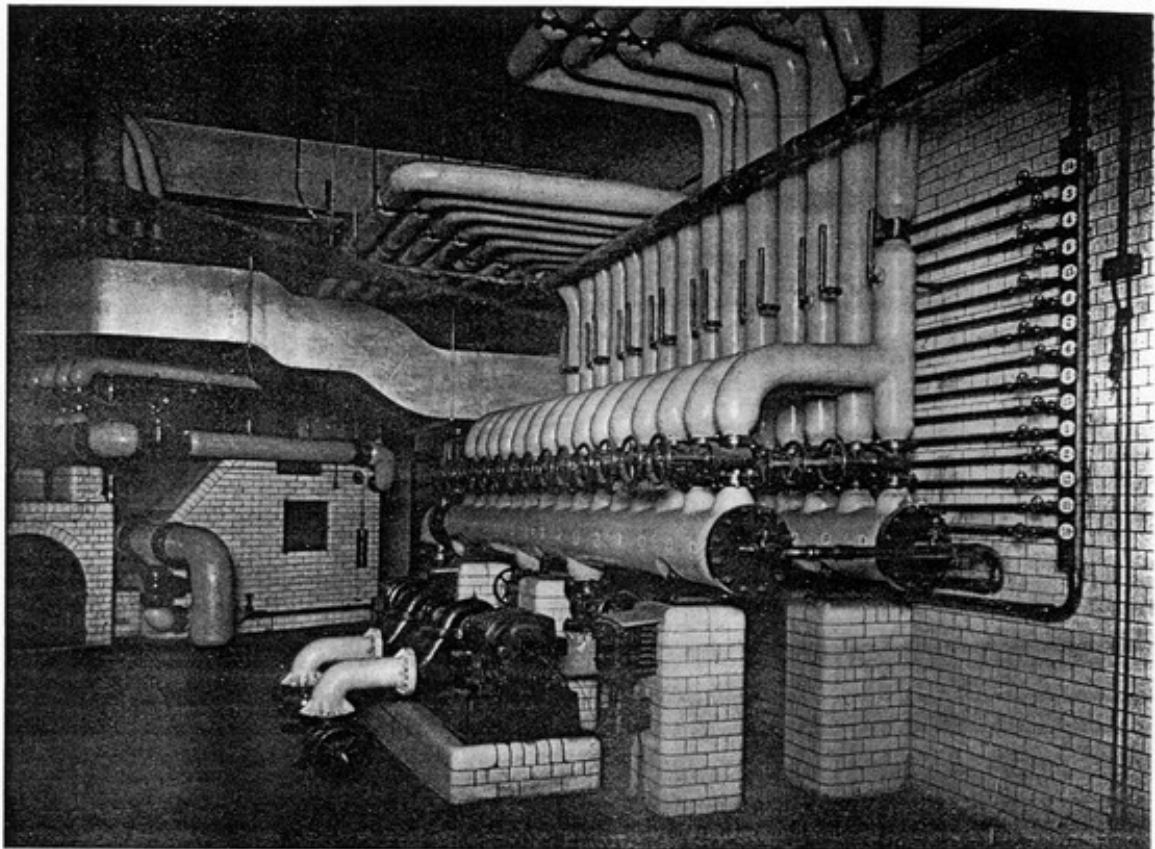
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*'Phone: TERminus 2877 (10 lines)
Wires: Warmth, Westcent, London*

125 YEARS OF ENGINEERING DEVELOPMENT

Series No. 8



Pipe Work by Haden

THE firm has always led the way in the centralisation of services.

In the middle of the last century the firm designed and installed single heating systems covering wider and wider areas, using steam to reach distant calorifier chambers.

Towards the end of the century, with the advent of the electric motor, the firm developed first the water screw, and then the centrifugal pump. Before the end of the century installations covering a square mile were warmed by hot water circulated from one central point.

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Wires: Warmth, Westcent, London



Calorifier and Pump Chamber by Hadens.
50 million B.Th.U. per hour.

WHEN electricity is generated by steam, great quantities of heat are wasted in the exhaust.

Early in the century the firm opened its electrical department, and balancing the electrical load with the demand for hot water supplies, turned this waste to good purposes in numbers of large buildings.

To-day, the electrical department handles not only power but special lighting problems of every kind.

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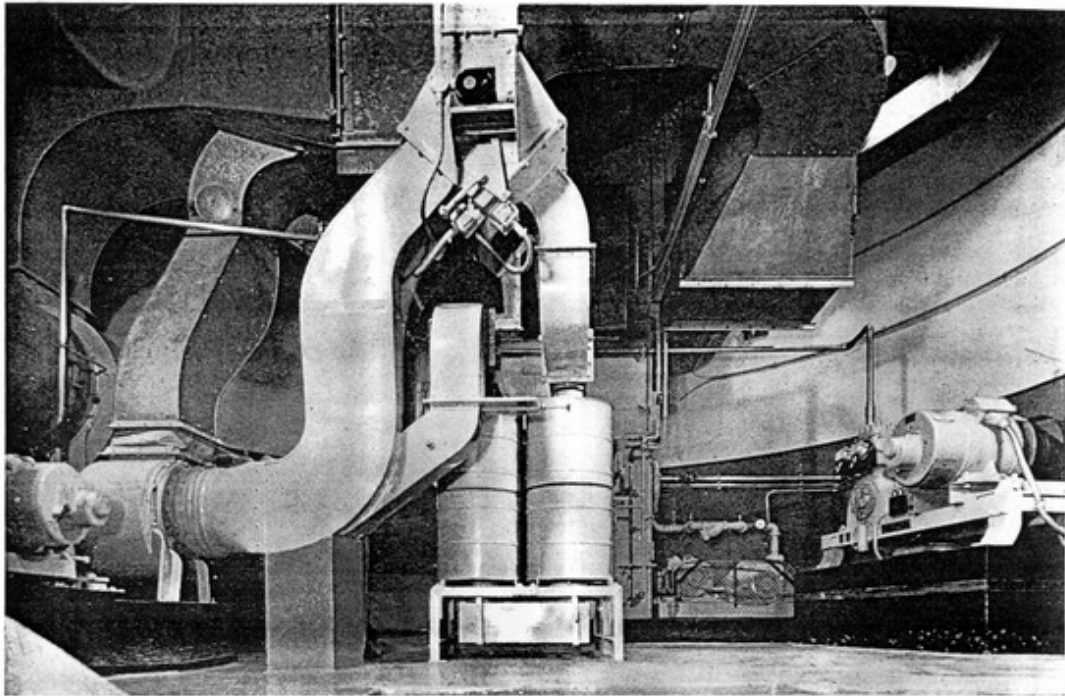
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Wires: Warmth, Westcent, London

125 YEARS OF ENGINEERING DEVELOPMENT

Series No. 10.



EIGHTY years ago we filtered air and increased its humidity by passing it through wet horsehair screens and over prismatic glass baffles, occupying much space.

To-day, with the use of refrigeration, we "condition" air, i.e., we control its temperature and humidity automatically, in a much smaller space.

This illustration shows part of an air conditioning plant 100 feet below ground, with alternate air and war-gas filtration controlled from above.

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Torquay, Castle Road	- - - - -	Torquay 3834
Lincoln, Guildhall Street	- - - - -	Lincoln 593
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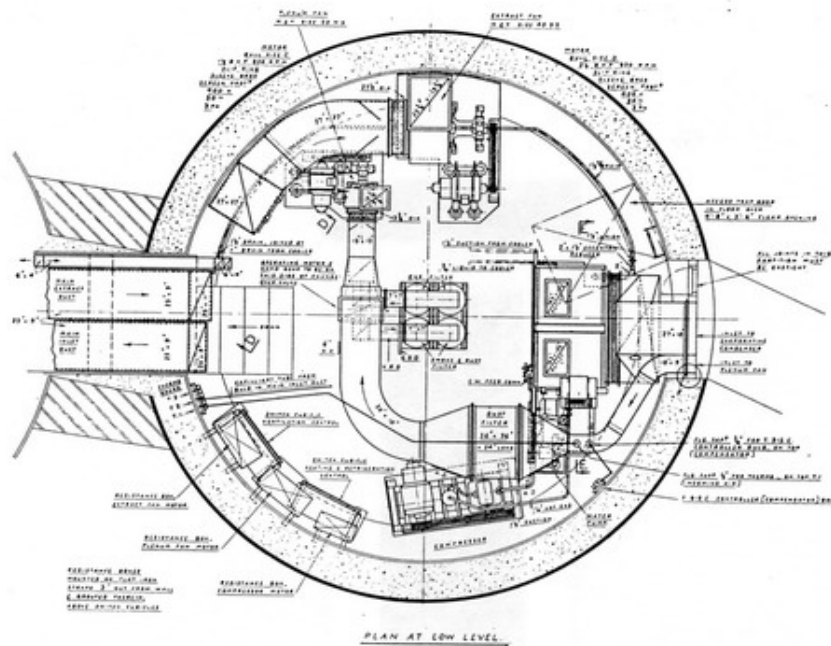
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Wires: Warmth, Westcent, London



THIS drawing indicates in miniature the quality of design, the ingenuity of arrangement, and the standard of draughtsmanship attained in the company's technical departments.

It illustrates a plant which supplies conditioned air to persons in charge of vital services 100 feet below ground, and includes dust and gas filters, heating and cooling batteries and refrigerating plant.

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