KEITH-BLACKMAN

ADVERTISEMENTS

HEATING AND VENTILATING

A well known manufacturing firm with a very long record is **Keith Blackman Ltd** of Tottenham. Its history goes back to 1823 when James Keith, tinsmith and gas fitter began business in Arbroath. It is claimed that the James Keith Company was responsible for the introduction of both the sectional boiler and the sectional radiator to the British Isles, and it had an unusually enlightened labour relations policy which included a reduction of the working week—most uncharacteristic of those times.

In 1900 James Keith amalgamated with the Blackman Air Propeller Ventilating Co., Ltd., which in 1883 had introduced a range of belt-driven ventilating and exhaust fans. At the time these were

described as "contrivances for moving any quantity of air with a minimum of power". The Keith Blackman Company (as the combined company became known) is famous for combining the twin industries of heating and ventilating, and can therefore be said to be truly one of the first heating and ventilating manufacturing concerns.

The company now manufactures a very wide range of centrifugal fans for both ventilation and industrial processes work, bifurcated fans, high pressure blowers and special purpose axial fans, also low noise level fans for packaged air conditioners and air handling units.

As a pioneering gas man, James Keith would approve of the present day activities of Keith Blackman's industrial gas division, which supplies standard products from gas burners to switches and controls.

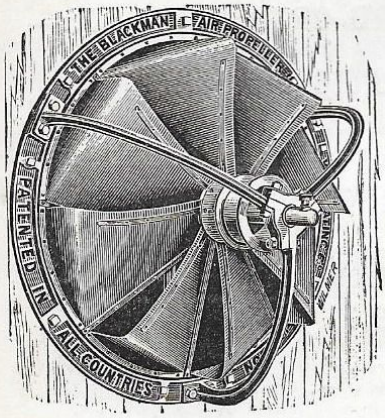
Written in 1977

THE

BLACKMAN

VENTILATING COMPANY'S

FANS,



For REMOVING HEATED or FOUL AIR, DUST, or STEAM from thousands of Industrial Buildings, Factories, Workshops, &c. It is also largely used for VENTILATING and WARMING PUBLIC BUILDINGS, SCHOOLS, &c., wherever motive power is or can be made available.

EXPERIENCED ENGINEERS SENT TO ADVISE AND REPORT WITHOUT CHARGE.

BLACKMAN VENTILATING CO.,

LIMITED,

63, FORE STREET, LONDON, E.C.

ALSO AT

MANCHESTER, BRADFORD, GLASGOW, AND BRISTOL.

THE BLACKMAN FAN, OR AIR-PROPELLER.

The Blackman Fan, or Air-propeller, is the best known mechanical ventilator, and is largely used, especially in industrial buildings, where the general use of motive power has no doubt greatly facilitated its adoption; 10,000 fans, averaging thirty-six inches diameter, being in use in industrial buildings alone.

According to the printed matter issued by the Blackman Ventilating Company, this appliance moves air through ordinary buildings at the rate of about 15,000 cubic feet per minute per horse-power. It is important to notice that that standard of duty is not kept up if the resistance be more than is represented by ¼ inch of water column.

Happily there is seldom if ever occasion to exceed that, indeed the more moderate the speed of the currents, the less risk there is of objectionable draughts; five-eighths of an inch of water reduces the quantity of air moved by one-half, and the power required is much greater for that half duty than if the whole normal volume were moved against the nominal resistance that can generally be arranged for in buildings.

The Blackman is used in the ventilation of many public buildings, and its use renders practicable and convenient simple arrangements for central-heating by "indirect" radiation, the heating surface being so arranged that the fresh air is either blown or drawn over it by the fan, so that all the air is necessarily warmed as it enters the building —a very important condition.

Very little heat is wasted in the air passages. They are formed of brickwork, which is a good non-conductor; and where the warming is thus thoroughly combined with the ventilation, as it always should be, the effect is satisfactory in the coldest weather; there hardly can be any inrush of cold air from outside, the air is changed regularly and the temperature can be kept nearly uniform throughout.

To apply this system properly its application should be considered fully by the architect, with the assistance of an expert, before proceeding with the plans. It is easy to make a building breathe if it is "caught young."—*See p.* 473.

THIS IS THE AGE OF "FIRSTS,"

AND KEITH'S SPECIALTIES,

Manufactured under 30 JAMES KEITH PATENTS, in GREAT BRITAIN, UNITED STATES, and CANADA,

"STAND 'FIRST' OR 'AT THE HEAD'"

IN THE HEATING, GAS, AND HYDRAULIC WORLD.

Awarded TWENTY PRIZE MEDALS

At International Exhibitions at Home and Abroad.

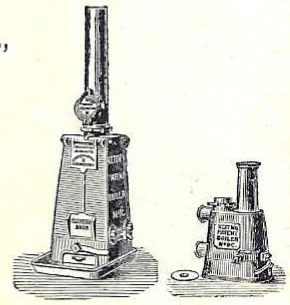
KEITH'S PATENT BOILERS,

"CHALLENGE," "VIADUCT," "PYTHON," &C.,

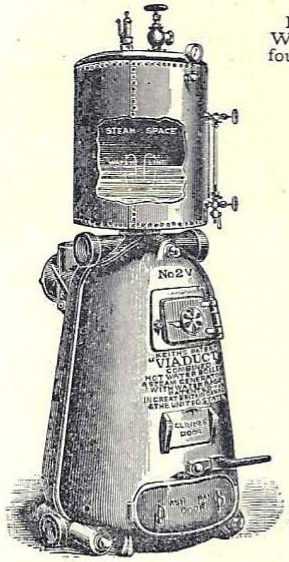
FOR HOT-WATER HEATING,

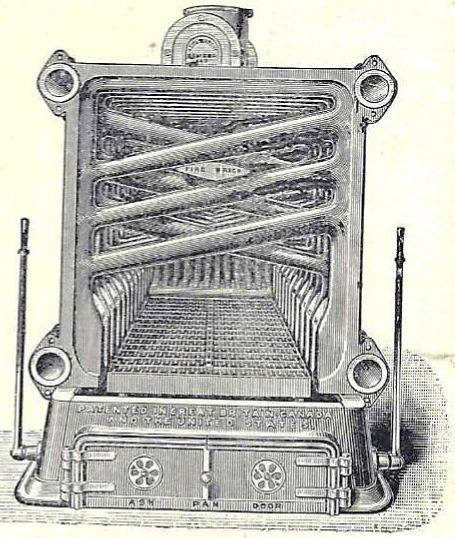
require no building work round them, are without rivals in efficiency and economy, and heat respectively from 50 feet up to 20,000 feet of 4-inch pipe, or its equivalent.

KEITH'S PYTHON BOILER, as illustrated below, with front section removed, has 1000 square feet of effective heating surface; heats 20,000 feet of 4-inch pipe, and is the most powerful and complete sectional "special" hot-water heating boiler in the world.



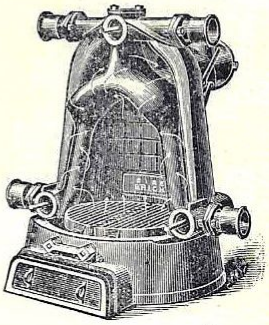
KEITH'S combined Hot-Water and Steam Boiler, in four removable pieces.





KEITH'S BOILERS

are in successful use by the thousands in all parts of the world, and they are almost exclusively used by Her Majesty's Government at the Home Office, for the heating work of the prisons throughout the United Kingdom, in preference to all others.



ESTABLISHED 1823.

1891

PHENOMENAL REVOLUTION IN

PUBLIC BATHS & WASH-HOUSES.

KEITH'S PATENTED SYSTEMS of HEATING WATER,

For Swimming Ponds, Slipper and other Baths, Wash-tubs, Laundries, &c., by direct and indirect hot-water circulation on entirely new lines, have, within the past year or two, and with the approval of Her Majesty's Local Government Board, been largely adopted by Municipal Corporations and Commissioners of Public Baths and Wash-houses in preference to all other systems.

KEITH'S systems have been adopted, notably, at the Putney, the Hampstead, the Battersea, and the various Camberwell and Islington Public Baths and Wash-houses London, and at the Leicester Corporation Baths, &c., &c., with unparalleled efficiency and economy.

At the Hampstead Public Baths, London, where there are 350,000 gallons of water in Swimming Baths alone to warm and to keep warm, at the end of the first season, a profit, equivalent to 50 per cent. of the total income was realised, a result, up to date, without parallel, in the history of Public Baths.

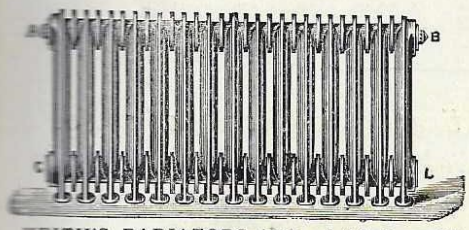
See Special Prospectuses.

KEITH'S PATENT "UNIVERSAL" RADIATORS,

FOR HOT-WATER HEATING,

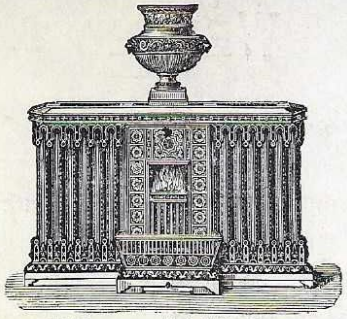
Made in one piece, and in many sizes and modifications; thousands in use.

NEW DEPARTURE—NO JOINTS TO LEAK.



KEITH'S RADIATORS, both of "Universal" and "Ornamental" type, are also made suitable for ventilation purposes.

KEITH'S PATENT ORNAMENTAL OPEN FIRE HOT-WATER APPARATUS.



With enamelled Tile Front, Combine warmth, cheerfulness, and ventilation, with efficiency, economy, and perfect safety.

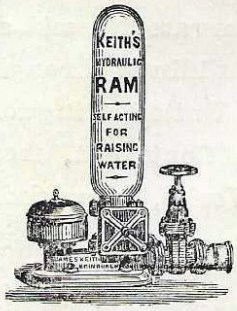
KEITH'S PATENT HYDRAULIC RAMS AND RAM PUMPS,

Self-acting for raising water.

KEITH'S PATENT AUTOMATIC VALVE GEAR,

For enabling Rams to stop and re-start again, without attendance; also for automatically flushing drains, &c.

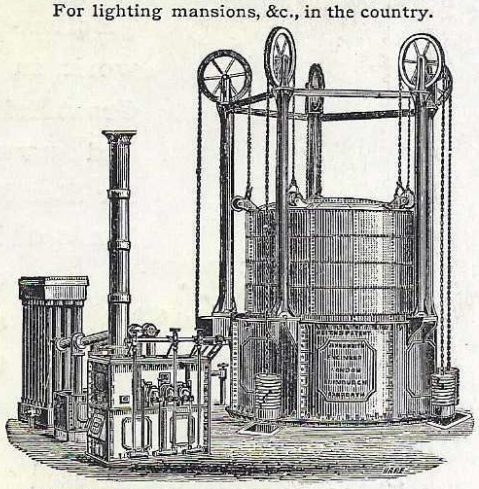
Perfect and simple in action.



The very highest efficiency attained in self-acting hydraulics, by Keith's Rams.

KEITH'S PATENT MINERAL OIL GAS WORKS,

For lighting mansions, &c., in the country.



Adopted by the Board of Trade and Commissioners of Northern Lights at Ailsa Craig, Langness, &c., &c.

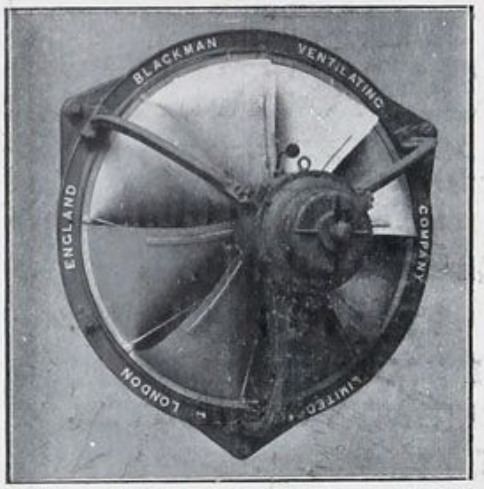
JAMES KEITH, C.E., Assoc. M. Inst C.E.,

GAS, HYDRAULIC, HEATING, VENTILATING, & CONSULTING ENGINEER.

Contractor to Her Majesty's Government,

57, Holborn Viaduct, London, E.C., also at Edinburgh and Arbroath.

2



BLACKMAN FANS

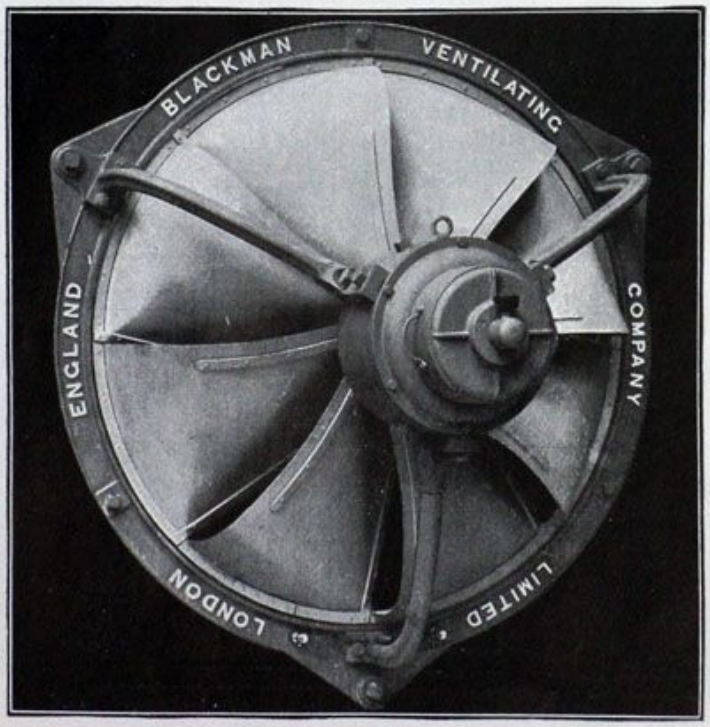
With or without ELECTRIC Motors combined, for VENTILATING and COOLING WORKSHOPS, FACTORIES, &c.

James Keith & Blackman Co., Ltd.,
27, Farringdon Avenue,
LONDON, E.C., *and Branches.*

1902

BLACKMAN ELECTRIC FANS

(Or Belt Driven)



FOR VENTILATING.

OVER 60,000 IN USE.

MOST CONVENIENT EFFICIENT, & ECONOMICAL.

GOLD MEDAL PARIS, 1900.

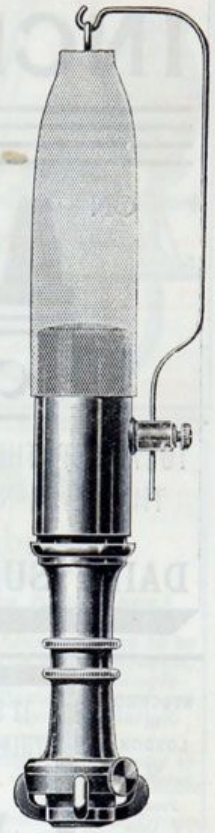
JAMES KEITH & BLACKMAN CO., Ltd.,
Specialists in Heating, Ventilating and High Pressure Gas Lighting,
27, FARRINGDON AVENUE,
LONDON, E.C.,
And BRANCHES.
Works: HOLLOWAY, N.
Foundries: ARBROATH.

1902

KEITH'S PATENT SYSTEM

OF

HIGH PRESSURE GAS LIGHTING,



A Better Effect than the Electric Arc at less than half the cost.

1,000 CANDLE POWER FOR 1D. PER HOUR.

As used
In the Grounds
of the
GLASGOW EXHIBITION,
1901;
TURIN EXHIBITION, 1902;
and by over
800 Leading Firms.

Estimates furnished for Outfits, including Compressor, suitable Lanterns, and Burners.

JAMES KEITH & BLACKMAN CO., LTD.

27 FARRINGDON AVENUE, LONDON, E.C.

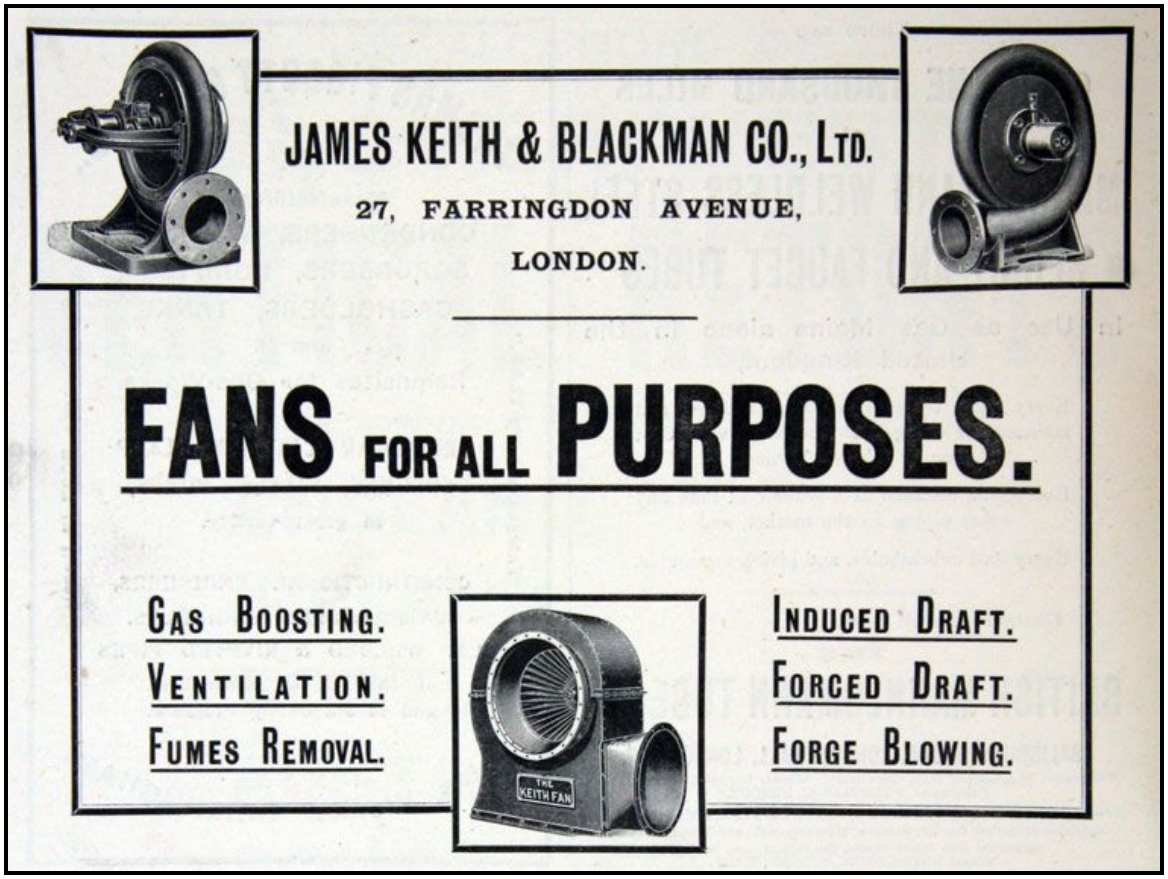
MANCHESTER—3 & 4 TODD STREET.
LEEDS—GASCOIGNE STREET, BOAR LANE.
GLASGOW—85 WEST GEORGE STREET.
BIRMINGHAM—1 COLONNADE PASSAGE.

Works: HOLLOWAY. Foundries: ARBROATH.

1903

KEITH'S SECTIONAL CHALLENGE BOILERS
FOR
HOT WATER HEATING.
The most efficient and economical on the Market.
Heating from 500 to 20,000 feet 4-in. Pipe.
James Keith & Blackman Co., Ltd.,
27, Farringdon Avenue,
LONDON, E.C.
Heating, Ventilating, Hydraulic, and High Pressure Gas Lighting Engineers.
Branches: MANCHESTER, BIRMINGHAM, LEEDS, and GLASGOW.
Works: HOLLOWAY, N.
Foundries: ARBROATH, N.B.

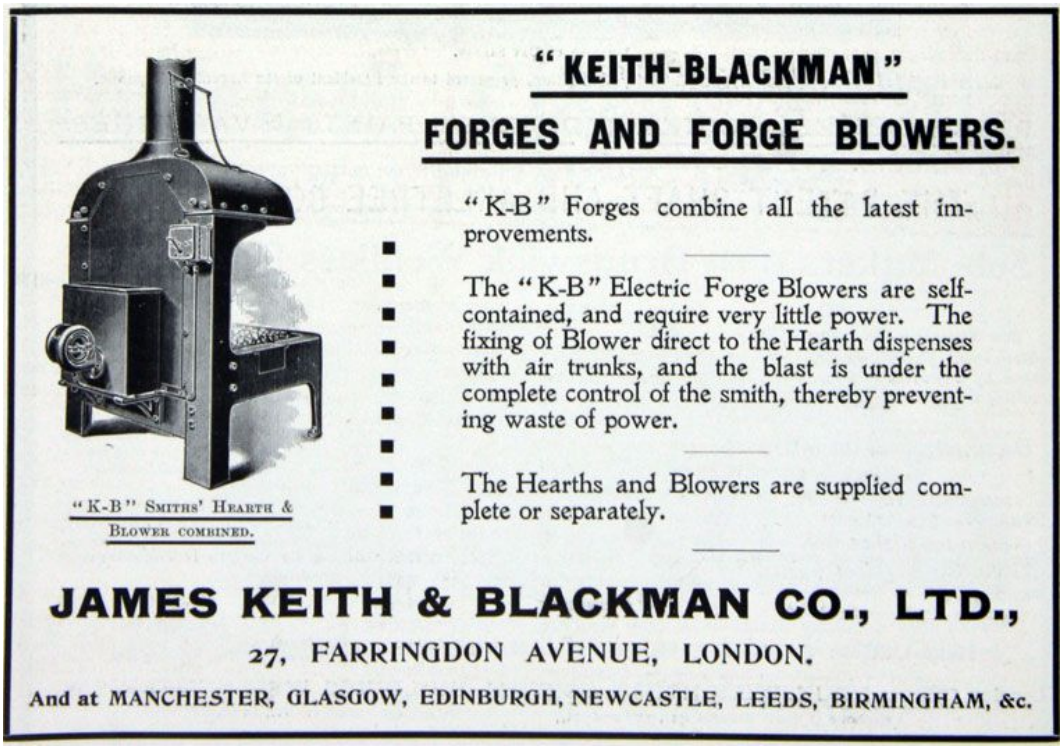
1906


JAMES KEITH & BLACKMAN CO., LTD.
27, FARRINGDON AVENUE,
LONDON.
FANS FOR ALL PURPOSES.
GAS BOOSTING.
VENTILATION.
FUMES REMOVAL.
INDUCED DRAFT.
FORCED DRAFT.
FORGE BLOWING.
THE KEITH FAN

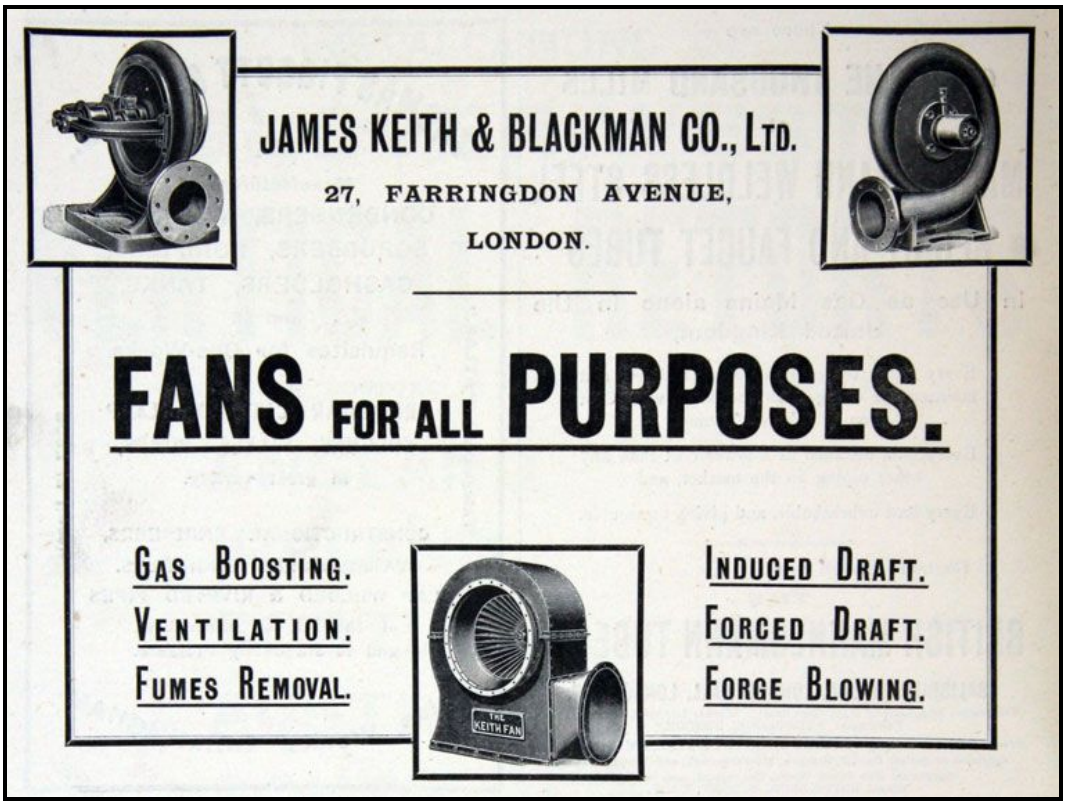
1913

"K-B"
GAS BOOSTING FANS
FOR RAISING THE PRESSURE OF GAS IN DISTRICT MAINS.
THESE FANS ARE ARRANGED FOR DRIVING BY GAS ENGINE, STEAM TURBINE, &c.
THE ILLUSTRATION IS OF A No. 7 "K-B" GAS BLOWER DIRECT COUPLED TO A 25 H.P. MOTOR, AND CAPABLE OF DELIVERING HALF-A-MILLION CUBIC FEET OF GAS PER HOUR.
COMPLETE BOOSTING INSTALLATIONS CARRIED OUT.
JAMES KEITH & BLACKMAN CO., LTD.
27, Farringdon Avenue, LONDON.

1913


"KEITH-BLACKMAN"
FORGES AND FORGE BLOWERS.
"K-B" Forges combine all the latest improvements.
The "K-B" Electric Forge Blowers are self-contained, and require very little power. The fixing of Blower direct to the Hearth dispenses with air trunks, and the blast is under the complete control of the smith, thereby preventing waste of power.
The Hearths and Blowers are supplied complete or separately.
"K-B" Smiths' Hearth & Blower combined.
JAMES KEITH & BLACKMAN CO., LTD.,
27, FARRINGDON AVENUE, LONDON.
And at MANCHESTER, GLASGOW, EDINBURGH, NEWCASTLE, LEEDS, BIRMINGHAM, &c.

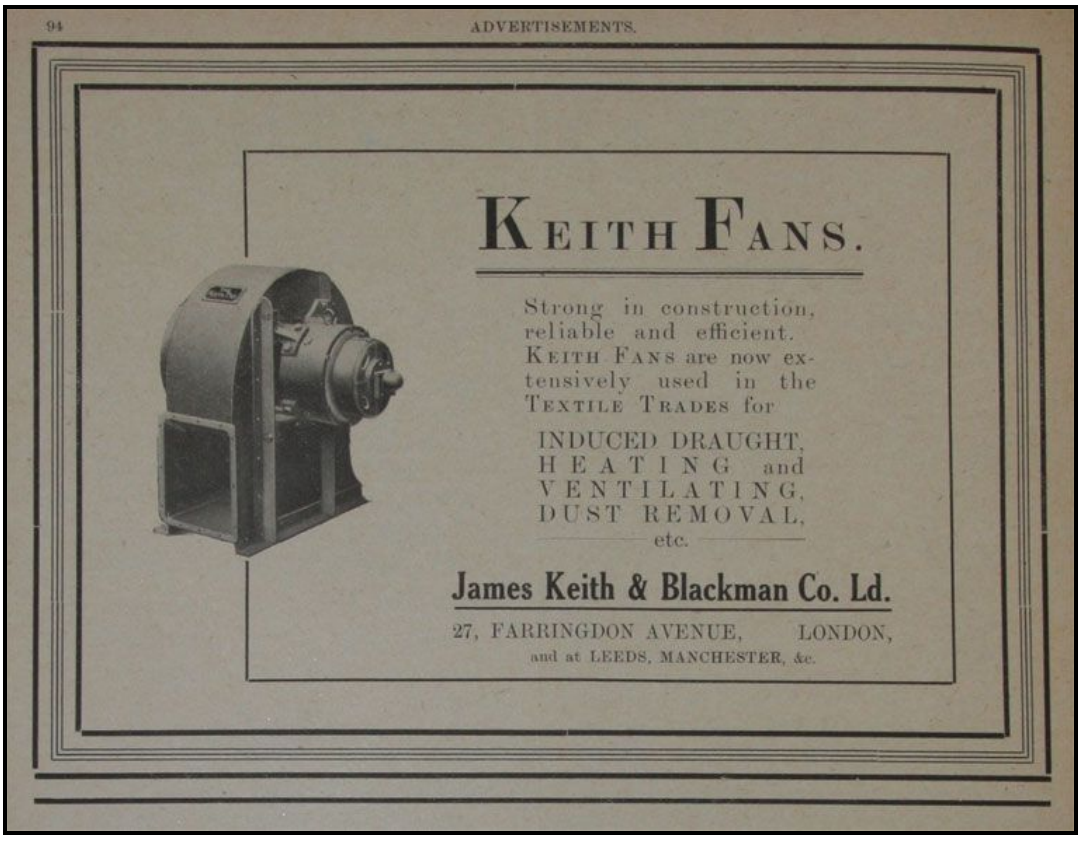
1913


JAMES KEITH & BLACKMAN CO., LTD.
27, FARRINGDON AVENUE,
LONDON.
FANS FOR ALL PURPOSES.
GAS BOOSTING.
VENTILATION.
FUMES REMOVAL.
THE KEITH FAN
INDUCED DRAFT.
FORCED DRAFT.
FORGE BLOWING.

1913

THE KEITH COKE FIRED BOILERS
ARE THE BEST
For Supplying Hot Water for Domestic Purposes.
The only Boilers having the essential features of
Large Cleaning Doors.
Providing adequate facilities for removal of incrustation.
Rocking Grates.
Reducing the labour of stoking to a minimum.
SECTION OF O.C. BOILER, With Fuel Magazine.
"E" Type Boiler.
O.C. BOILER.
COST OF RUNNING FOR CONTINUOUS SERVICE FROM 1/6 PER WEEK.
PRICES FROM £3 15s. TO £18 15s. SUBJECT.
JAMES KEITH & BLACKMAN CO., LTD.,
27, FARRINGDON AVENUE, LONDON.

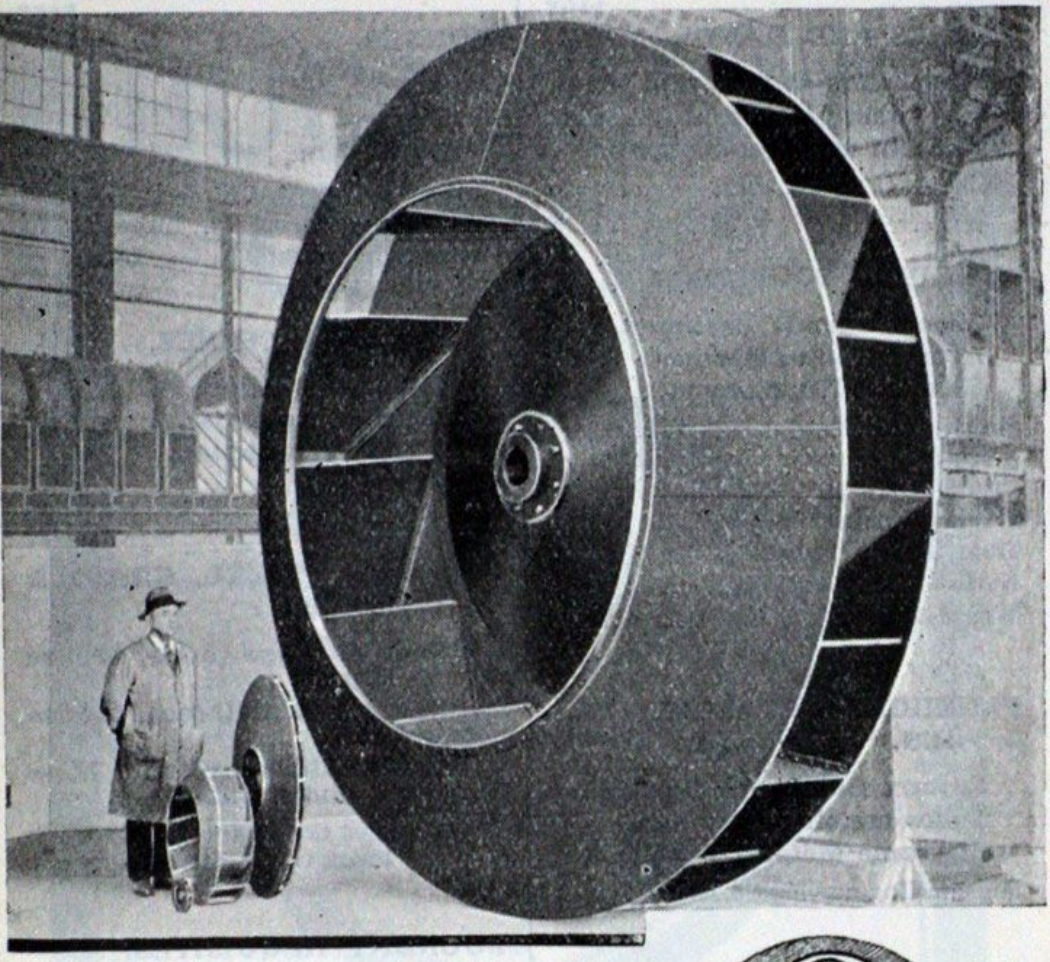
1914


KEITH FANS.
Strong in construction, reliable and efficient. KEITH FANS are now extensively used in the TEXTILE TRADES for
INDUCED DRAUGHT, HEATING and VENTILATING, DUST REMOVAL, etc.
James Keith & Blackman Co. Ld.
27, FARRINGDON AVENUE, LONDON,
and at LEEDS, MANCHESTER, &c.

1917

Keith-Blackman
Hot Water Supply
and
Central Heating
BOILERS
for every type and size of Building
SEND US YOUR ENQUIRIES
WRITE FOR "BOILER" CATALOGUES
No 4B "CHALLENGE" BOILER
No 2B "CHALLENGE" BOILER for Hot Water Supply
2E BOILER
"PILOT" DOMESTIC BOILER with Patent Airing Rail
"O.C." DOMESTIC BOILER
JAMES KEITH & BLACKMAN Co LTD
Head Office 27, FARRINGDON AVENUE, LONDON, E.C.4
Branch Offices at Manchester, Birmingham, Leeds, Glasgow etc

1928



A 180-in. single-inlet "Keith" Fan Runner for a Mine Ventilating job. Capacity: 170,000 c.f.p.m. at 3" w.g. Efficiency not less than 80%. When you are in the market for fans—no matter how large or how small, or for what purpose—send us your enquiries or ask us to send a representative from the nearest of our several branches to discuss your requirements on the spot. Our specialised technical knowledge and extensive experience will save you time and money.

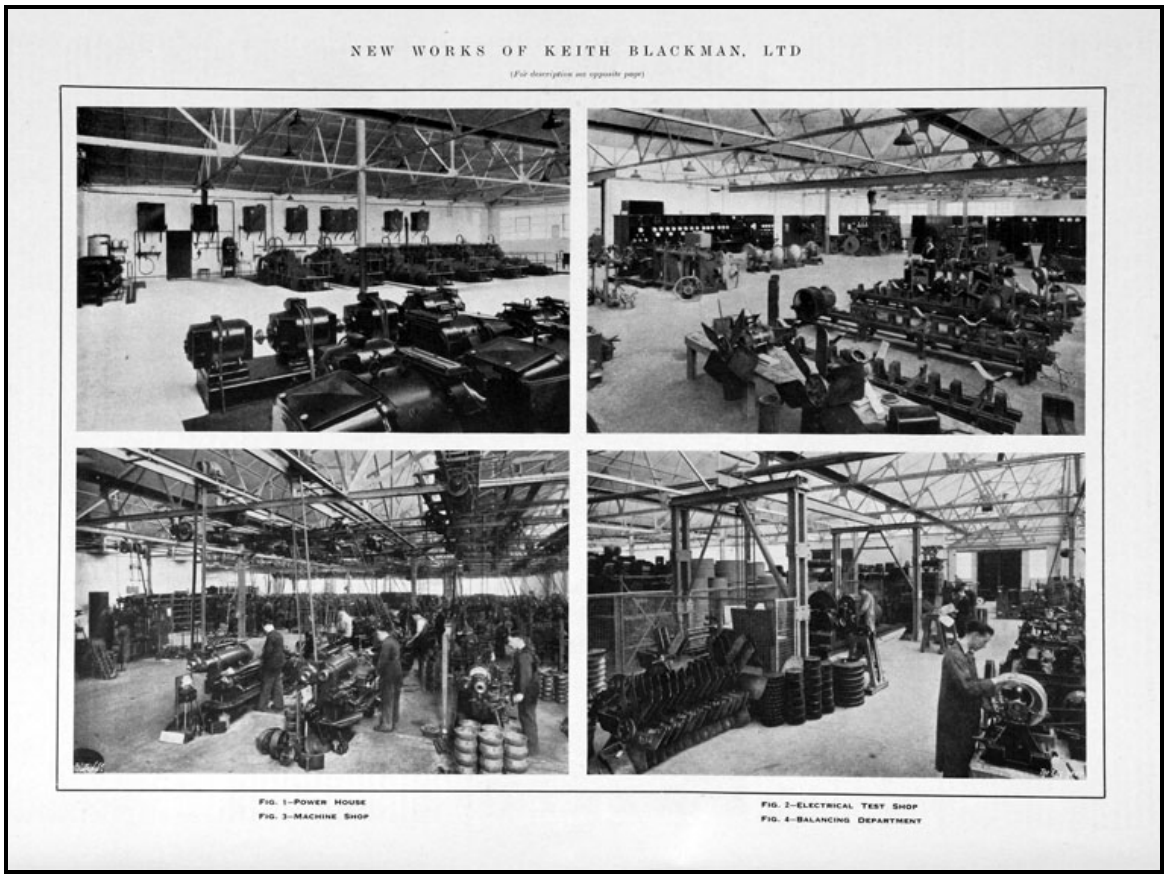
K&B

FANS *for all purposes!*

JAMES KEITH & BLACKMAN CO. LTD.

Head Office : 27 Farringdon Avenue, London, E.C. 4

Phones: Central 7091–99. 'Grams: "James Keith, Phone, London."


NEW WORKS OF KEITH BLACKMAN, LTD
(For description see opposite page)
FIG. 1—POWER HOUSE
FIG. 2—ELECTRICAL TEST SHOP
FIG. 3—MACHINE SHOP
FIG. 4—BALANCING DEPARTMENT

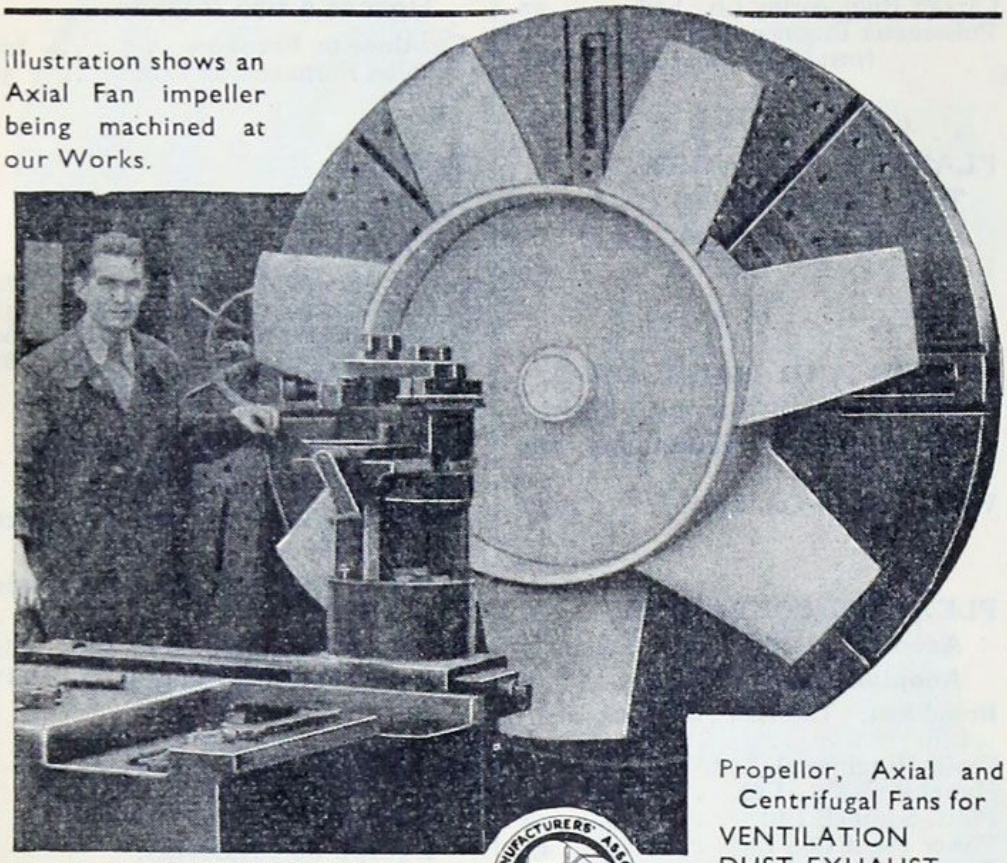
1939

Dust Removal
Forge Blowing
INDUCED
DRAFT, etc.
KEITH
BLACKMAN
FANS
AND ALL
ANCILLARY EQUIPMENT
Write
for
Catalogue
'Phones : Tottenham 4522. 'Grams : "Keithblac Phone London."
KEITH BLACKMAN LTD. MILL MEAD ROAD, LONDON, N.17.

1943

There is a "KEITH-BLACKMAN" FAN for every purpose for which a fan can be profitably used.

Illustration shows an Axial Fan impeller being machined at our Works.



"KEITH-BLACKMAN" FANS

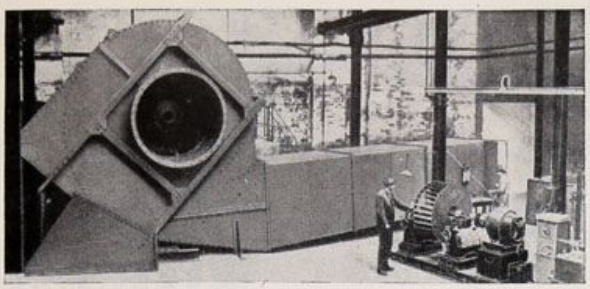
Send us particulars of your requirements or ask us to send a representative from our nearest branch office.

Propellor, Axial and Centrifugal Fans for

VENTILATION
DUST EXHAUST
BOILER DRAUGHT
FUME REMOVAL
FORGE BLOWING
FURNACE BLAST
CUPOLA BLOWING
HEATING
COOLING
DRYING, etcetera.

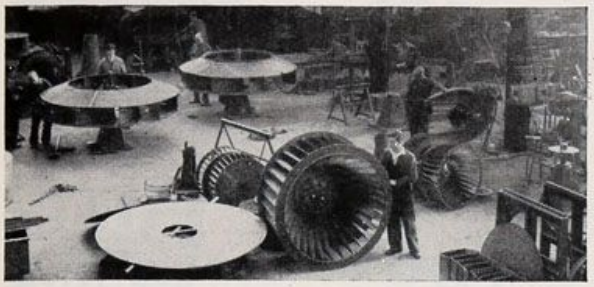
We also make all fan ancillaries such as Gilled tube Air Heaters in copper and steel; Electric Air Heaters; Air Filters, Air Washers and Conditioners; Dust Settlers and Collectors.

KEITH BLACKMAN LTD., MILL MEAD ROAD, LONDON, N.17
Phone: Tottenham 4522. Grams: "Keithblac Norphone London"



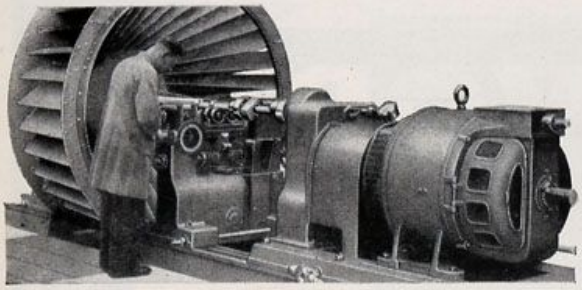
to

A large centrifugal type fan set up for torque testing — Research Division, Arbroath.



put

Part of plant area devoted to production of fan runners — Arbroath.



you

A centrifugal type runner undergoing tests on dynamic balancing machine — Test Division, Arbroath.

in the picture

A very wide range of fan engineering equipment is manufactured at our plants at Tottenham and Arbroath. The advertisements which follow in this series are designed to "put you in the picture" so far as our products for the Heating and Ventilating Industry are concerned. Watch for these advertisements and keep them for easy reference.

Left : Part of the administrative block — Tottenham

Keith Blackman LIMITED

MILL MEAD ROAD, TOTTENHAM, LONDON, N.17

'Phone : Tottenham 4522 (twelve lines). 'Grams : "Keithblac, Norphone, London."

BRANCH OFFICES : AT MANCHESTER, BIRMINGHAM, LEEDS, GLASGOW, NEWCASTLE-ON-TYNE, PENARTH near CARDIFF, AND BELFAST

See stand D.726 for FANS

✳ Fans for ventilation · fume removal · air blast. dust extraction and mechanical draught.

Industrial gas heating and controlling appliances, too. *Ask for literature.*

KEITH BLACKMAN LTD

MILL MEAD ROAD · LONDON · N.17

1957

Tornado

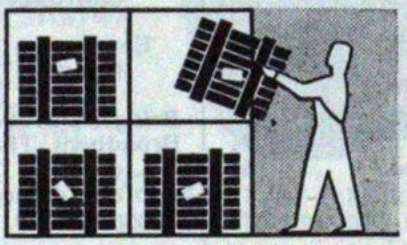
FANS and BLOWERS

Thousands available from stock

propeller · axial · centrifugal

independent drive or motorised

STRAIGHT off the SHELF



KEITH BLACKMAN

Keith Blackman Limited Mill Mead Road London N17

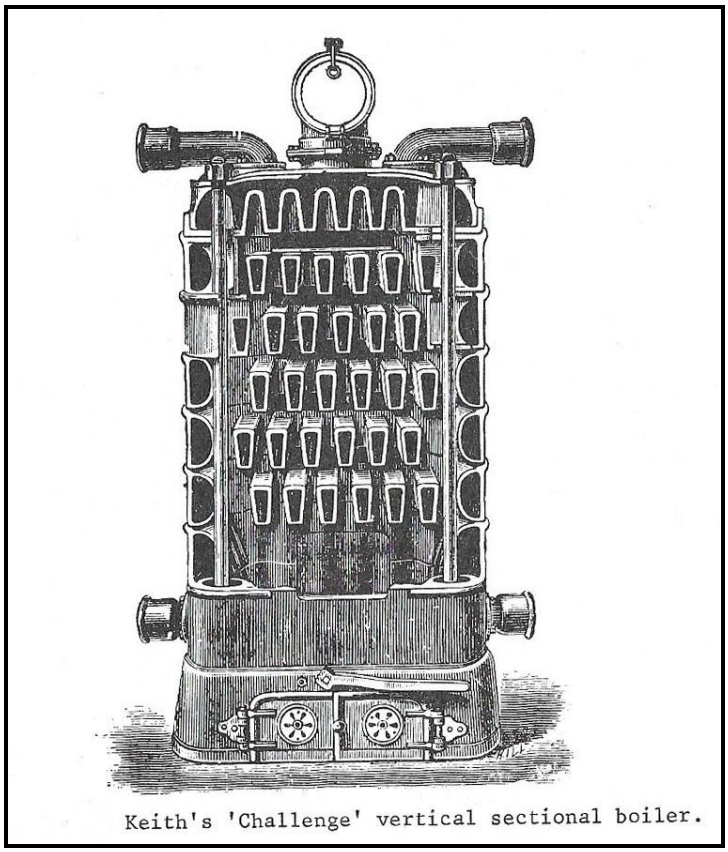
TOTtenham 4522

T.A.10796/797

1960

formula for leadership
Experience Founded originally in 1823 the Company has had the widest experience in the design and manufacture of all types of equipment for the handling of air and other gases. Blowers, exhausters, heaters, filters, dust and fume removal equipment, and of course, fans of all types, fall within this wide scope. Fans of every size and for every purpose, from Coal Mines to Aircraft Carriers, have been designed, manufactured and tested by Keith Blackman and installed in all parts of the world—experience unparalleled in the field.
Research Keith Blackman's lead in design is maintained by five separate research departments. Specialised facilities are available at Tottenham for the development and testing of axial fans, centrifugal fans and filtration equipment, while a metallurgical laboratory controls the quality of materials founded at Arbroath. Tottenham also possesses one of the most advanced acoustics laboratories in the world for the investigation of sound levels in all types of fan engineering equipment.
In addition, the company's generating station, as well as supplying power to the factory, is designed to produce a wide range of A.C. and D.C. supplies for the test beds.
Range The Keith Blackman range covers virtually every type of fan and blower in all sizes—axial types from 5 inch to 100 inch diameter, centrifugal types ranging from 1½ inch to 180 inch, and propeller fans from 6 inch to 72 inch diameter. Much equipment is designed for clients' specific requirements involving, frequently, the use of special materials including pvc. Other equipment is made for heating, cooling, washing, dust and fume extraction, filtration and air conditioning. Five thousand fans of varying types are kept continuously in stock for quick delivery.
Tornado
Keith Blackman Ltd
(incorporating Blackman Export Co. Ltd.)
MILL MEAD ROAD, LONDON N.17 TOTTENHAM 4522
Leaders in the Fan Industry
Resources The company's three factories cover an area of 17½ acres, and employ over 1,800 people. The main Tottenham works produces small and medium units and includes drawing offices, test facilities and machine shops, as well as the sales and administration offices. The Arbroath works deals with the production of the larger fans. Its iron and non-ferrous foundry plant supplies the whole of the company's casting needs. The Edmonton Factory concentrates on light sheet metal and plate work and the fabrication of steel structures. Virtually all components, including fan motors and bearing housings, are thus designed and manufactured within the organisation—a unique combination of resources.
Service Through the years the company has built up an enviable reputation for service at all stages.
Sales representatives are all fully trained technical men capable of giving 'on the spot' advice on routine applications or special problems. The sales organisation operates from branches throughout the country backed by a staff of qualified sales engineers at Head Office. Despatch of stock items, of which 5,000 units are kept continuously available, is possible in as little as four days. The Company has its own road transport fleet and direct rail connections from the main factory.
TA 2641/1058
Enter No. 791 on reply card

1960



Keith's 'Challenge' vertical sectional boiler.

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