

6-1-1962

The Irish Plumber and Heating Contractor, June 1962 (complete issue)

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THE IRISH PLUMBER & HEATING CONTRACTOR



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SHE WANTS**

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THE ORIGINAL SCHEME FOR OIL-FIRED CENTRAL HEATING IN THE HOME

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IRISH SHELL AND BP LIMITED



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2 ENDEX capillary fittings for small-bore central
heating—efficient, unobtrusive and cheaper
to install.

3 CONEOR go underground with safety. Coneor couplings
are zinc-free gunmetal castings specifically
chosen for use with soft copper tubing.

4 FYFFE'S up-to-date range of *PLUMBERS' BRASS
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can be supplied—polished or chromium-plated.

ADD THEM UP TO A FIRST CLASS JOB

IT PAYS TO KEEP TO THE FYFFE LINES

Fyffe Couplings (Ireland) Ltd.

Instantor Works, James's Street, Dublin, 8.



THE IRISH PLUMBER & HEATING CONTRACTOR



**MRS
1970
KNOWS WHAT
SHE WANTS**

And she knows just where to get it. Because the hard hitting advertising which first sells her on the idea of installing Shell and BP Housewarming also tells her of the superb service offered by her local Appointed Installer. The special Shell and BP Appointed Installer's sign is prominently featured in each advertisement to help her remember it. There are hundreds of Mrs. 1970's. All looking for the Irish Shell and BP Limited Appointed Installer's sign — the sign which they know means prompt efficient service. Hundred's of Mrs. 1970's — hundreds of systems to install and service. It's obviously very good business to give Mrs. 1970 what she wants!

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INSTANTOR

the most efficient joints in the world for copper tubing. Equally reliable for use with plastic pipes.

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CONEOR

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4

FYFFE'S

up-to-date range of *PLUMBERS' BRASS WARE* is at your stockist's now. All patterns can be supplied—polished or chromium-plated.

ADD THEM UP TO A FIRST CLASS JOB

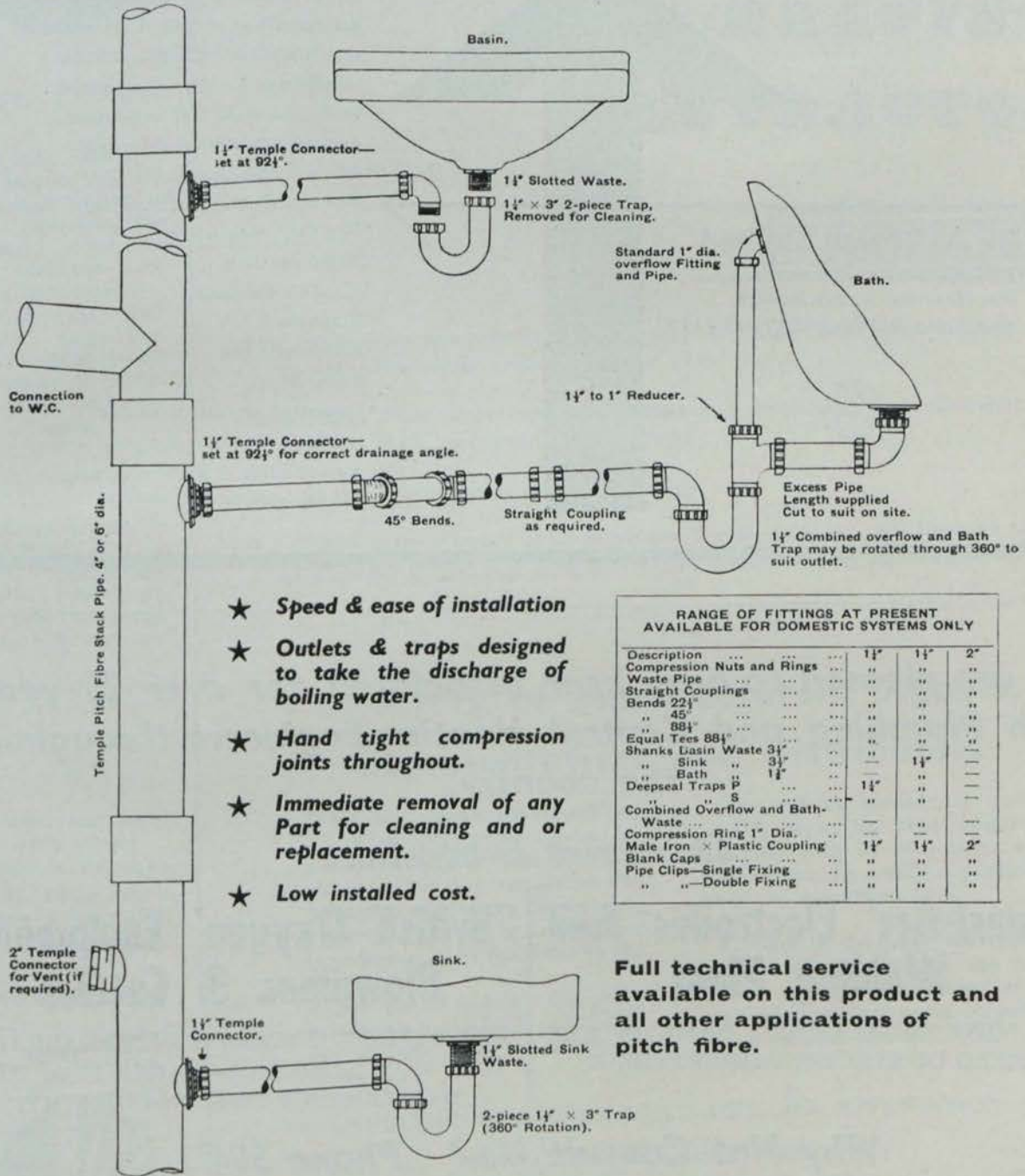
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Description	1 1/2"	1 1/2"	2"
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Straight Couplings
Bends 22 1/2°
" 45°
" 88 1/2°
Equal Tees 88 1/2°
Shanks Basin Waste 3 1/2"
" Sink " 3 1/2"	..	1 1/2"	..
" Bath " 1 1/2"
Deepseal Traps P	..	1 1/2"	..
" S
Combined Overflow and Bath Waste
Compression Ring 1" Dia.
Male Iron x Plastic Coupling	1 1/2"	1 1/2"	2"
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Pipe Clips—Single Fixing
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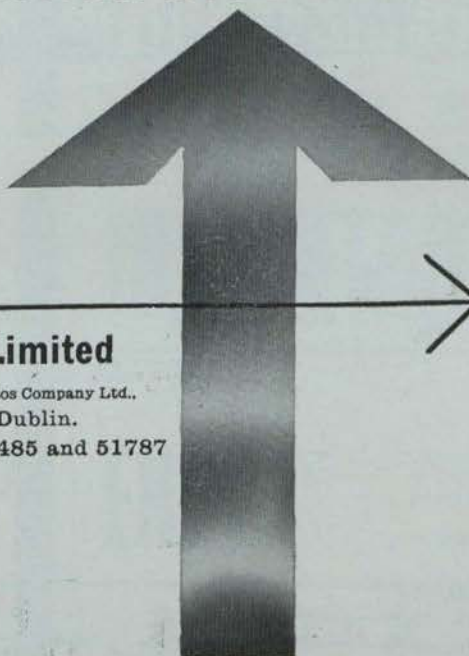
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PHONE: PASSFIELD 281/2

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Flexible Sections

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with Plumbing and Central Heating Engineers throughout
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Welding Plant**

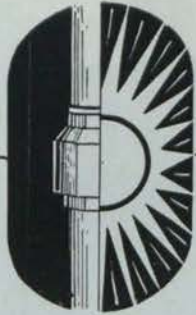
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FOR SAFETY, ECONOMY, DEPENDABILITY.
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MAINTENANCE TOOL IN INDUSTRY.

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Industrial Gases (I.F.S.) Ltd.
BLUEBELL, INCHICORE, DUBLIN



THE IRISH PLUMBER & HEATING CONTRACTOR

Vol. 2. No. 3.

The only publication in Ireland for the craftsman plumber and contractor, the heating, ventilation and insulation engineer and contractor, the electrical contractor, supplier, manufacturer and wholesaler of fittings and equipment for the trades.

Published monthly by Irish Trade & Technical Publications. Annual subscription, 21/-, post free. Single copies, 1/9, post free.

This special directory issue five shillings per copy.

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Callaghan Chambers,
13/15 Dame Street,
Dublin, 2. Tel.: 56466,
and 133 Royal Avenue,
Belfast.
Tel.: Belfast 22796.

JUNE, 1962.



IN THIS ISSUE

This month again sees John G. Bolton writing on welding practice. In this issue he deals with bronze welding of copper tubes	6
Having dealt with various roofing materials and techniques, A. L. Townsend, M.R.S.H., M.I.P., now turns to zinc roofwork	56
Trade Topics, keeping you in touch, are on page	4

Due to the inclusion of an important directory section in this issue, we have been obliged to hold over until next month a number of regular features.—Ed.

Directory of Manufacturers, Agents, Representatives and Distributors

THE first comprehensive register of manufacturers, agents, representatives and distributors of plumbing, heating, ventilation and insulation appliances, fittings and materials available in this country is presented with this issue of the Contractor.

This special directory will prove invaluable to the trade and should be carefully filed for future reference.

The register, running to close on fifty pages, has been designed complete with its own cover so that it can be easily separated from the magazine.

Covered by the many individual sections of the directory are relative appliances, fittings and materials available in the Republic of Ireland and the North of Ireland.

ADDITIONAL COPIES AVAILABLE ON APPLICATION.

PRICE FIVE SHILLINGS PER COPY.

INDEX TO ADVERTISERS

APPEARS ON PAGE SIXTY.

TRADE

TOPICS

DUE TO HEAVY DEMANDS ON SPACE THIS MONTH, many items which would normally be appearing in Trade Topics have had to be held over.

POTEZ DISTRIBUTORS APPOINTED

MESSRS. M. ROWAN & CO. LTD. (51-52 Capel Street, Dublin) have been appointed as distributors for the Potez range of heating units now being manufactured at the Galway factory. The three models now available are:—

Model 331: Heated space up to 4,945 c.ft. (corrected volume). An extra flat model with new type patented heat exchanger. Output: 17,280 B.t.u.'s/hr. Price: £28.

Model 631: Heated space up to 7,770 c.ft. (corrected volume). Output: 24,640 B.t.u.'s/hr. Price: £38.

Model 7R1: Heated space up to 12,713 c.ft. (corrected volume). Output: 37,440 B.t.u.'s/hr. Price: £48 5s.

A fuel tank and draught regulating shutter is incorporated in all three models.

£½m. Bolton St. extension opened

The teaching accommodation of the College of Technology at Bolton St., Dublin, has been increased by almost fifty per cent. since the new £500,000 extension was opened by the Taoiseach, Mr. Lemass. The Archbishop of Dublin, Most Rev. Dr J. C. McQuaid, blessed the extended building.

Speaking after the opening, the Taoiseach said that the College fulfilled a major role. The demand for places in it reflected the industrial growth of the country.

Mr. Martin Gleeson, Chief Executive Officer, City of Dublin Vocational Education Committee, said that with the extended building fully occupied the critical situation had been reached where the College would be unable next September to meet the demands on its accommodation.

A light-hearted thirteen minutes from Shires



Pictured at the Building Centre were, from left: Mr. E. D. King, Director, Shires; Col. N. O'Morrore, Director, Shires; Mr. D. McGreevy, Managing Director Building Centre; and Mr. J. Ferguson, Managing Director, Shires.

The new Shires thirteen minute colour film, "The Inconvenience," was shown in Dublin recently at a Building Centre reception given by Shires (Ireland) Limited.

The film has been made with the object of emphasizing the need for the incorporation of modern facilities in

the home, factory, workshop, school, and such buildings.

It does this by tracing, in a light-hearted manner, the history of this equipment and comparing the historically ornate and unhygienic models with the facilities available to-day. The film is available on loan from Shires.

Drugasar balanced flue heater

The Drugasar 3,000 Low (from F. A. Borchardt Limited) is a robustly constructed balanced flue type heater, designed to give convected as well as radiated heat. It has an attractive outer casing with top and centre grilles and is fitted with specially constructed flue equipment, so that the heating unit is completely sealed from the room which is being heated and ventilation problems are therefore obviated.

The ducts are concealed within an asbestos cement wall liner cemented into the wall opening, a grille being fitted flush on the outer side of the wall. These heaters should be fitted preferably on an outside wall or to fabricated flues. This heater is ideal for placing under low windows. Irish Agents: Preston Ltd., 201 Pearse St., Dublin.

★ Walker Crossweller & Co. Ltd., the Cheltenham manufacturers of thermostatic mixing valves, participated in two European exhibitions last month in Cologne and Zurich.

ADDITIONAL TORCH HEADS

A number of additional heads are now available for the famous Bullfinch Air/Kosangas heating torches.

With the No. 3 Head this Torch is now widely used for the fitting of P.V.C. piping. The new heads widen considerably the range of heating for all types of brazing. Sales and Service from Welding Services Ltd., 14-16 Amiens Street, Dublin (47051).

Irish Office

The Distillers Plastics Group, comprising British Geon Limited, British Resin Products Limited, and Distrene Limited, has opened an office in Dublin. The office is situated at 28, Upper George's Street, Dun Laoghaire, Co. Dublin.

Mr. G. Y. Blomeley will be in charge of the new office, being responsible for sales of all Distillers Plastics Group materials in the Republic of Ireland.



We chose Wavin PVC...

AT CASTLEFORBES WORKS

Castleforbes Works had a problem! A highly corrosive chemical, used in their modern manufacturing process in Dublin made very short work of conventional pipes. This could mean frequent renewal of the pipe-lines, with consequent loss of production and the risk of dangerous bursts—but they chose Wavin PVC because Wavin PVC Pipes are immune to chemical attack. They are also inexpensive and easy to instal, with a *complete* range of PVC fittings. And they solved their problem efficiently and cheaply.

If you have a problem in pipework, why not consult Wavin—the pioneers of PVC in Ireland.

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 CIAN PARK, DRUMCONDRA, DUBLIN 9
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● Tests have shown that the **CLAUDO** valve remains leakproof after 100,000 cycles of operation at 140 p.s.i., which equals 40 years of duty.

CLAUDO VALVES — Suitable for compressed air, other gases, liquids or vacuum, employ a brand new principle in the design.

The shutoff mechanism is contained in a neoprene cylinder that is virtually indestructible.

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also at 98 LISBURN ROAD, BELFAST.

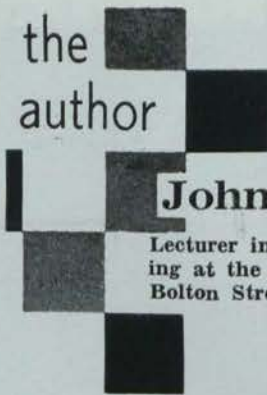
Phone: Belfast 28608.

The Irish Plumber and Heating Contractor.

BRONZE

WELDING

OF COPPER TUBES



the
author

John G. Bolton

Lecturer in Plumbing and Heating at the College of Technology, Bolton Street, Dublin.

LAST MONTH the welding of copper pipelines by the oxy-acetylene process was examined. It was pointed out that to make a true autogenous weld on a copper tube, it was necessary to actually melt the pipe ends so that complete fusion of the parent metal took place.

This process requires a high degree of skill to achieve satisfactory welds and, except for special work, is almost superseded by the Bronze Welding Method.

This technique was evolved from the brazing process used for many years in the engineering world, and although it is called bronze-welding by name, strictly speaking it is not welding in the true sense of the word, because it does not require the copper to be raised to melting temperature. However, for convenience we will continue to use the term "welding" in this article.

Difference

IT MAY be opportune at this point to definite the difference between brazing and bronze welding. In actual fact there is none, as the nature of the finished joint is somewhat the same. The term "brazing" is, however, more applicable to the slip-fit type of joint—e.g., bicycle frames—where the brazing metal or "spelter" runs, when heated, into the gap between the closely fitting parts of the joint, by capillary attraction.

On the other hand, in bronze welding, we do not depend on a slip-joint for efficiency, as the deposit of the bronze on the joint provides a degree

of strength to at least that possessed by the copper tube itself.

The chief advantage, therefore, of bronze welding over the autogenous welding of copper lies in the fact that joints can be made without raising the parent metal to melting point. The bronze is also easy to apply in any position which may be encountered on the job, and this technique will therefore give very satisfactory results when used by a trained craftsman.

Preparation

IN THE preparation of copper tubes for bronze welding, there are several points to keep in mind. First, the metal must be clean so that it will be readily "tinned" by the filler rod. This means that all traces of grease, paint, etc., must be removed, but usually no preparation is required on new copper tubes beyond the removal of burrs or sharp edges at the joints. Note that the use of deoxidised copper tube is not necessary as was the case with autogenous welding.

Secondly, it is important to form a joint which will permit a large area of contact between the filler metal and the copper. This is the reason why one side of a copper pipe joint is "belled out" so as to form a large V angle with the other side and thereby give greater surface area. This results in the joint having a high shear strength in addition to a high tensile strength. The yield stress on an average joint is in the region of 3½ tons per sq. in.

It has been found that, in many

tests, the tube will burst at about 3,000 lbs./sq. in. while the bronze welded joint is still perfect.

Avoided

IT MAY be mentioned here that face to face butt welds on light gauge copper tube are best avoided as the area of contact is small. In this respect the "belled out" joint is much superior in strength—a fact which is recognised in the Atomic Plants where butt joints on thin walled copper tubes are not permitted, and so the belled or V-joint reigns supreme.

Branch Joints.—Where branch joints occur we must keep to the same principle—to try and provide a large degree of surface contact between the bronze and the copper. This is usually achieved by tafting the opening up so as to form a cup into which is welded the branch (see sketch). Alternately, the branch can be made a close saddle fit and then bronze welded.

Fluxes.—It was mentioned earlier that the copper must be "tinned" as a preliminary to bronze welding, and most of the fluxes used to assist this process have therefore a borax base.

The flux is usually applied by dipping the heated end of the filler rod into the powder from time to time during welding and then applying it to the joint. The main reason for using a flux is to remove all traces of dirt or oxide from the surface of the copper so that the bronze will

(continued page fifty-five)



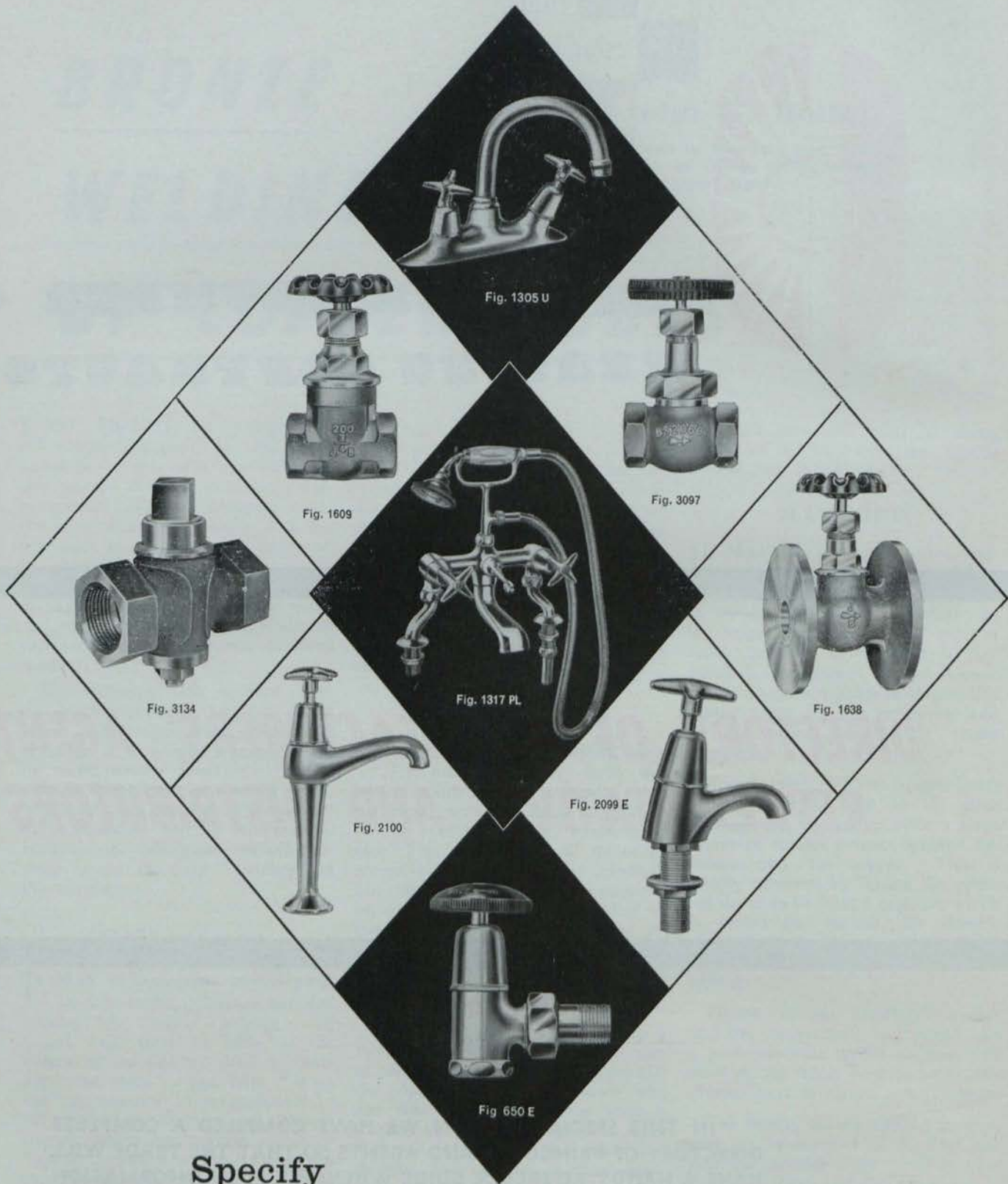
**THE IRISH PLUMBER &
HEATING CONTRACTOR**

***DIRECTORY OF MANUFACTURERS, AGENTS,
REPRESENTATIVES AND DISTRIBUTORS***

IN THIS SPECIAL SECTION WE HAVE COMPILED A COMPLETE DIRECTORY OF PRINCIPALS AND AGENTS SO THAT THE TRADE WILL HAVE A HANDY REFERENCE GUIDE WHENEVER SUCH INFORMATION IS REQUIRED. FOR THE BENEFIT OF READERS ALL CATAGORIES ARE LISTED ALPHABETICALLY AND AN INDEX OF ADDRESSES WILL BE FOUND ON PAGE FORTY-SEVEN.

Presented with the June, 1962, issue of the Irish Plumber And Heating Contractor.

For Variety - with Individuality



Specify

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Every Time

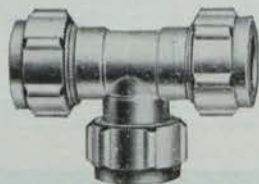
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MÍLE
FÁILTE**



... AND MAY WE OFFER TO MEET ALL
YOUR REQUIREMENTS FOR
**PLUMBERS' BRASSFOUNDRY
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290 Trap



12x Tee-Piece



5301 EC. Pillarcock



171x Combined Fitting

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080 Lavatory Waste



1650 Valve



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Agents and Stockists:—

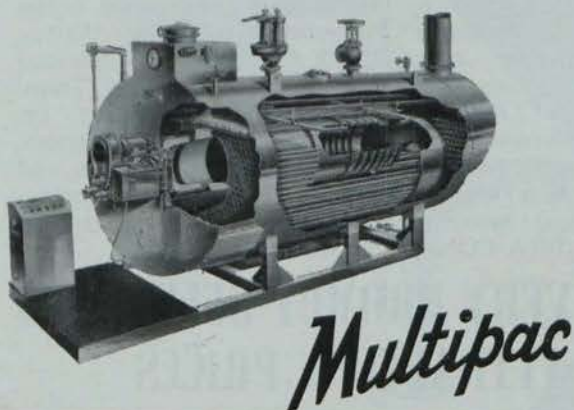
J. J. SAMPSON & SON LTD.

12a Wexford Street, Dublin. Phone 51856.

*Directory of
manufacturers,
agents,
representatives,
distributors*

EVERY effort has been made to ensure the accuracy of the entries in this directory, but the publishers accept no responsibility for any inaccuracies.

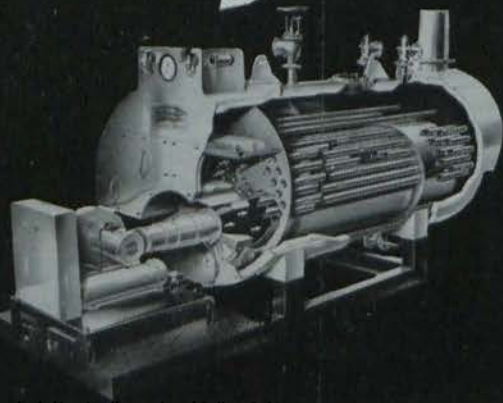
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Directory Of Manufacturers, Agents, Representatives And Distributors

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
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Air Cleaners, Electronic

Airnesco Products Ltd.	Halpin & Hayward Ltd.	AIRNESCO
Honeywell Controls Limited	Honeywell Controls Ltd. (Irish Office)	HONEYWELL

Air Conditioning Equipment

A.E.I. Birlec Limited	A.E.I. Export Ltd. (Irish Office)	R.U.
Andrew Air Conditioning Ltd.	F. G. Thornton	ANDREW
F. H. Biddle Ltd.	Quadrant Engineers	
Brightside Heating & Engineering Co. Ltd.	Brightside Engineering Co. Ireland Ltd.	HI-JET
Carlyle Air Conditioning & Refrigeration Ltd.	Enquiries supplied direct	CARLYLE
Chrysler Airtemp Ltd.	Everton Engineering Limited (Northern Ireland)	CHRYSLER AIRTEMP
Chrysler Airtemp Ltd.	H. A. O'Neil Ltd. (Republic of Ireland)	
Dunham Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH "
General Electric Co. Ltd.	General Electric Co. of Ireland Ltd.	CALIFORNIAN
Hall-Thermotank Ltd.	J. & E. Hall Ltd. (Irish Office)	AQUACHILL
Hall-Thermotank Ltd.	Thermotank Ltd. (Northern Ireland)	
Heating and Building Services Ltd.	Enquiries supplied direct	HI-VÉE
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	
Lightfoot Refrigeration Co. Ltd.	Lightfoot Refrigeration (Ireland) Ltd.	LIGHTFOOT
Stewarts & Lloyds Ltd.	Stewarts and Lloyds of Ireland Ltd.	
Stillite Products Ltd.	Enquiries direct	STILLITE
Trane Limited	Enquiries supplied direct	
Vokes Limited	The Leinster Engineering Co. Ltd.	" KOMPAK "
York Shipley Ltd.	York Shipley Limited (Irish Office)	EMBASSY

Air Vents

F. H. Biddle Ltd.	Quadrant Engineers	
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
Greenwood-Airvac Ventilating Co. Ltd.	Technical Sales Company	MECHA VENT
Spirax-Sarco Ltd.	Enquiries supplied direct	
Thermotank Ltd.	J. & E. Hall Ltd.	THERMOTANK
Thermotank Ltd.	Thermotank Ltd. (Northern Ireland)	
Charles Winn & Co. Ltd.	J. S. Lister Limited	UNIVENT

Air Washers

Andrew Air Conditioning Ltd.	F. G. Thornton	ANDREW
Copperad Ltd.	British Steam Specialties Ltd.	MANWOOD MILLER
Davidson & Co. Ltd.	Enquiries supplied direct	SIROCCO
Keith Blackman Ltd.	Keith Blackman Ltd. (Irish Office)	TORNADO
Thermotank Ltd.	J. & E. Hall Ltd.	THERMOTANK
Thermotank Ltd.	Thermotank Ltd. (Northern Ireland)	

Autoclaves

Cochran & Co., Annan Ltd.	Enquiries direct	COCHRAN
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Automatic Clock Controllers

Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son, Ltd. (N.I.)	

Blowers and Exhausters

Keith Blackman Ltd.	Keith Blackman Ltd. (Irish Office)	TORNADO
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Boiler Controls

Electroflo Meters Co. Ltd.	Enquiries supplied direct	ELECTROFLO
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LIST OF ADDRESSES OF MANUFACTURERS AND AGENTS STARTS ON PAGE 47.

The Irish Plumber and Heating Contractor.

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
Airnesco Products Ltd.	Halpin & Hayward Ltd.	AIRNESCO
Bolton Superheater & Pipeworks Ltd.	Halpin & Hayward Ltd.	
British Steam Specialties Ltd.	British Steam Specialties Ltd. (Irish Office)	BOSS
Combustion Equipment Ltd.	Halpin & Hayward Ltd.	
Charles Winn & Co. Ltd.	J. S. Lister Limited	WINN
Hattersley (Ormskirk) Ltd.	W. H. Leech	
Peglers Ltd.	Enquiries supplied direct	PEGLERS

Boilers

Allied Ironfounders Ltd.	Waterford Ironfounders Ltd.	AGA/WATTS
Bastian & Allen Ltd.	Hendon Bros. (Machinery) Ltd.	
Baxi Ltd.	F. A. Smyth	BAXI-PAK
Beeston Boiler Co. Ltd.	I. F. Glasgow	ROBIN HOOD
Buderus'sche Eisenwerke	Quadrant Engineers	BUDERUS
Burgess & Co. (Engineers) Ltd.	Enquiries direct	BURGESS
Charles Portway and Sons Ltd.	Irish Technical & Production Co. Ltd.	PORTWAY
Clayton, Son & Co. Ltd.	Peter Macfarlane & Son Ltd.	CLAYTONOIL
Clyde Fuel Systems Ltd.	Clyde Fuel Systems Ltd. (Irish Office)	CLYDE
Cochran & Co. (Annan) Ltd.	Enquiries direct	COCHRAN
Coexpo Ltd.	Baxendale & Co. Ltd.	AMANDA
Crane Ltd.	Enquiries supplied direct	CRANE/CAVENDISH
Colt Ventilation Ltd.	F. W. Norman	TURBO-STATIC
Danish Stoker & Varmekedal Kompagni	Danish Stoker & Boiler Co. Ltd. (Irish Office)	D.S.V.
Dartmouth Manufacturing Co. Ltd.	Kenneth M. Reynolds Ltd.	
Delmore Engineering Co. Ltd.	O.B.C. Ltd. (Irish Office)	DELMORE
Dunsley Heating Appliance Co. Ltd.	John Barrett & Sons	DUNSLEY
Edmond D. Ryder	Enquiries supplied direct	AUGUSTINE
Edwards Engineering Corp.	Hugh C. Maguire	EDWARDS
Foley, Duffy & Co. Ltd.	Enquiries direct	ELLERSTYLE
Forta, N. V.	Quadrant Engineers	
Frederick Kay (Engineering) Ltd.	Waterford Ironfounders Ltd.	AGA/KAYENCO
G. C. Pillinger & Co. Ltd.	G. C. Pillinger & Co. (Ireland) Ltd.	
Glow-Worm Boilers Ltd.	Monsell Mitchell & Co. Ltd.	GLOW-WORM
Grange-Camelon Iron Co. Ltd.	Enquiries supplied direct	SOFONO
Hartley & Sugden Ltd.	McGrath & Kenny	OILEX/WHITE ROSE/HALIFAX WILSON OILHEAT
Henry Wilson & Co. Ltd.	G. A. Reid	HOVAL
Hoval Boilers (U.K.) Ltd.	Enquiries supplied direct	STEAMBLOC
H. R. Holfeld Ltd.	Enquiries supplied direct	IDEAL
Ideal-Standard Ltd.	E. J. Cocker	INTERNATIONAL
International Boilers and Radiators Ltd.	Monsell Mitchell & Co. Ltd.	JANITOR
Janitor Boilers Ltd.	D. H. Sullivan	VEHA
J. B. Van Heijst en Zonen N.V.	J. B. Van Heijst & Sons Ltd.	WILSON
John Thompson Ltd.	William Peet & Sons John Thompson Ltd. (N.I.)	
Joshua Bigwood Ltd.	P. J. Casey	" TRAVELLER "
Lincoln Furnaces Ltd.	Dunwoody & Dobson Ltd.	SOLAR
Lumbys Ltd.	G. F. Morley Ltd.	
Marshall & Anderson Ltd.	D. P. Engert & Co.	REDFYRE
Newton, Chambers & Co. Ltd.	Baxendale & Co. Ltd.	
Newton, Chambers & Co. Ltd.	W. P. F. Hume Ltd. (N.I.)	O.B.C.
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	POWERMASTER
Orr & Sembower, Inc.	Hendon Bros. (Machinery) Ltd.	PERKINS
Perkins Boilers Ltd.	Enquiries supplied direct	PARKRAY
Radiation Parkray Ltd.	L. C. Young	PRIMATIC
Range Boilers Ltd.	Enquiries supplied direct	TASSO
Rasmussen, H. & Co. Ltd.	Hugh C. Maguire	THERMAX
Ruston & Hornsby Ltd.	Ruston & Hornsby Ltd. (Irish Office)	RYAX
Ryax Heating Ltd.	P. Donnelly & Sons Ltd.	CHAPPEE
Societe Generale De Fonderie	Irish Technical & Production Co. Ltd.	SMITHS
S. Smith & Sons (England) Ltd.	Monsell Mitchell & Co. Ltd.	
S. Smith & Sons (England) Ltd.	W. P. F. Hume & Co. Ltd., Belfast, N.I.	PARCA
Steel Radiators Ltd.	Hugh C. Maguire	
Stewarts & Lloyds Ltd.	Stewarts & Lloyds of Ireland Ltd.	SUNROD
Sunrod Domestic Boilers Ltd.	Monsell Mitchell & Co. Ltd.	
Sunrod Domestic Boilers Ltd.	W. P. F. Hume & Co. Ltd. (N.I.)	TAYCO
Tayco Boilers Ltd.	Enquiries supplied direct	POTTERTON
Thomas Potterton Ltd.	W. P. F. Hume & Co. Ltd. (N.I.)	TRIANCO
Trianco Ltd.	Heatavent Supply Co.	VALOR
Valor Company Ltd.	Esso Petroleum Co. (Ireland) Ltd.	

LIST OF ADDRESSES OF MANUFACTURERS AND AGENTS STARTS ON PAGE 47.

IRISH TECHNICAL & PRODUCTION CO. LTD.

25 UPPER MOUNT STREET, DUBLIN. Telephone: 62636.

Agents for

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Boilers For Oil & Coal Firing

★ For Hot Water Installations

AN100 Series	33,000/61,000 BTUs/hour
AX200 Series	66,000/144,000 BTUs/hour
AN300 Series	128,600/278,000 BTUs/hour
AN400 Series	269,000/603,000 BTUs/hour
AN500 Series	524,000/1,400,000 BTUs/hour
AN600 Series	1,100,000/2,500,000 BTUs/hour
B200 Series	262,000/628,000 BTUs/hour

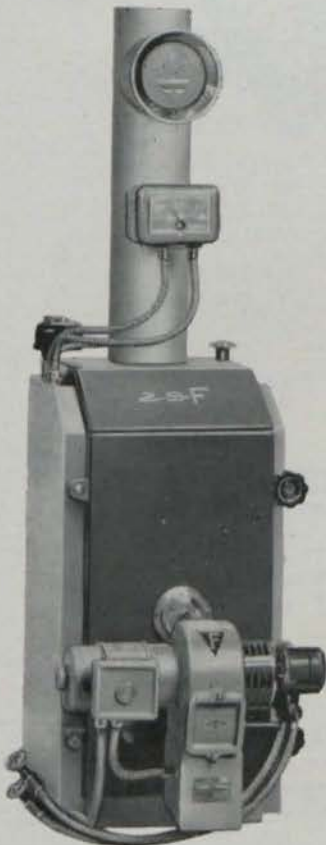
★ For L.P. Steam Installations

A5000 Series	270,000/1,250,000 BTUs/hour
A6000 Series	975,000/2,260,000 BTUs/hour
B2000 Series	262,000/629,000 BTUs/hour



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FRANCIA Pressure Jet Oil Burners



● 25 F and 45 F Domestic Package Units,
25 F—100,000 BTU/h.
45 F—200,000 BTU/h.



FROM 70,000 TO
6,000,000 BTU/h.
FOR LIGHT OR HEAVY
OIL.

70,000 BTU/h.
to 6,000,000 BTU/h.

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● All Our Burners Are Backed By Us With Full Service & Spares Dept.

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
Vauxhall Boiler Co. Ltd.	P. J. Casey	GOLCALOR
Walther & Cie.	Quadrant Engineers	SUPERECONOMIC
Weldryte Ltd.	Enquiries direct	WELDRYTE
W. H. Paul Ltd.	G. F. Morley Ltd.	PAULOMATIC
Richard Baxendale & Sons Ltd.	Baxendale & Co. Ltd.	BEANCO

Burner Controls

Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
Rheostatic Company Ltd.	R. E. Ayers	SATCHWELL
Venner Ltd.	Roper Bros. Ltd.	VENNER

Burners, Gas

Bratt Colbran Ltd.	L. C. Young	
Continue-Flo Heating Products Ltd.	W. J. Thompson Ltd.	CONTINUE-FLO
Felcoil Burners Ltd.	Enquiries supplied direct	
Geo. Bray & Co. Ltd.	Enquiries supplied direct	
Keith Blackman Ltd.	Keith Blackman Ltd. (Irish Office)	
Radiation-Parkray Ltd.	L. C. Young	PARKRAY
Selas Gas and Engineering Co. Ltd.	A. H. Masser Ltd.	BUNSEN

Burners, Oil

Atlantic Distribution Industries (G.A. Walsh Group)	Enquiries supplied direct	
Auto-Combustions (London) Ltd.	Auto-Combustions (Ireland) Ltd.	
F. H. Biddle Ltd.	Quadrant Engineers	
Brightside Heating & Engineering Co. Ltd.	Brightside Engineering Co. (Ireland) Ltd.	
Camron Engineering Co. Ltd.	Monsell Mitchell & Co. Ltd.	CAMRON
Clyde Fuel Systems Ltd.	Clyde Fuel Systems Ltd. (Irish Office)	CLYDE
Continue-Flo Heating Products Ltd.	W. J. Thompson Ltd.	CONTINUE-FLO
Dansk, Stoker & Varmekedel Kompagni	Danish Stoker & Boiler Co. Ltd. (Irish Office)	D.S.V.
Davis Wayne (Burners) Ltd.	Farrell Engineering Co. Ltd.	DAVIS WAYNE
Felcoil Burners Ltd.	Enquiries supplied direct	
Francia & Cie	Irish Technical & Production Co. Ltd.	FRANCIA
G. C. Pillinger & Co. Ltd.	G. C. Pillinger & Co. (Ireland) Ltd.	PILLINGER
Industrial & Domestic Heaters Ltd.	Enquiries supplied direct	SELECTOS
J. B. Van Heijst en Zonen N.V.	J. B. Van Heijst & Sons Ltd. (Irish Office)	VEHA
Kingdom Engineering Co. Ltd.	Farrell Engineering Co. Ltd.	
Kresky Manufacturing Co. Ltd.	W. J. Thompson Ltd.	KRESKY
Nu-Way Heating Plants Ltd.	NU-Way Heating Plants Ltd. (Irish Office)	NU-WAY
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	
Tecalemit Ltd.	Enquiries supplied direct	
Urquharts (1926) Ltd.	Quadrant Engineers	URQUHART
Wilson, Henry & Co. Ltd.	George A. Reid	WILSON OILHEAT

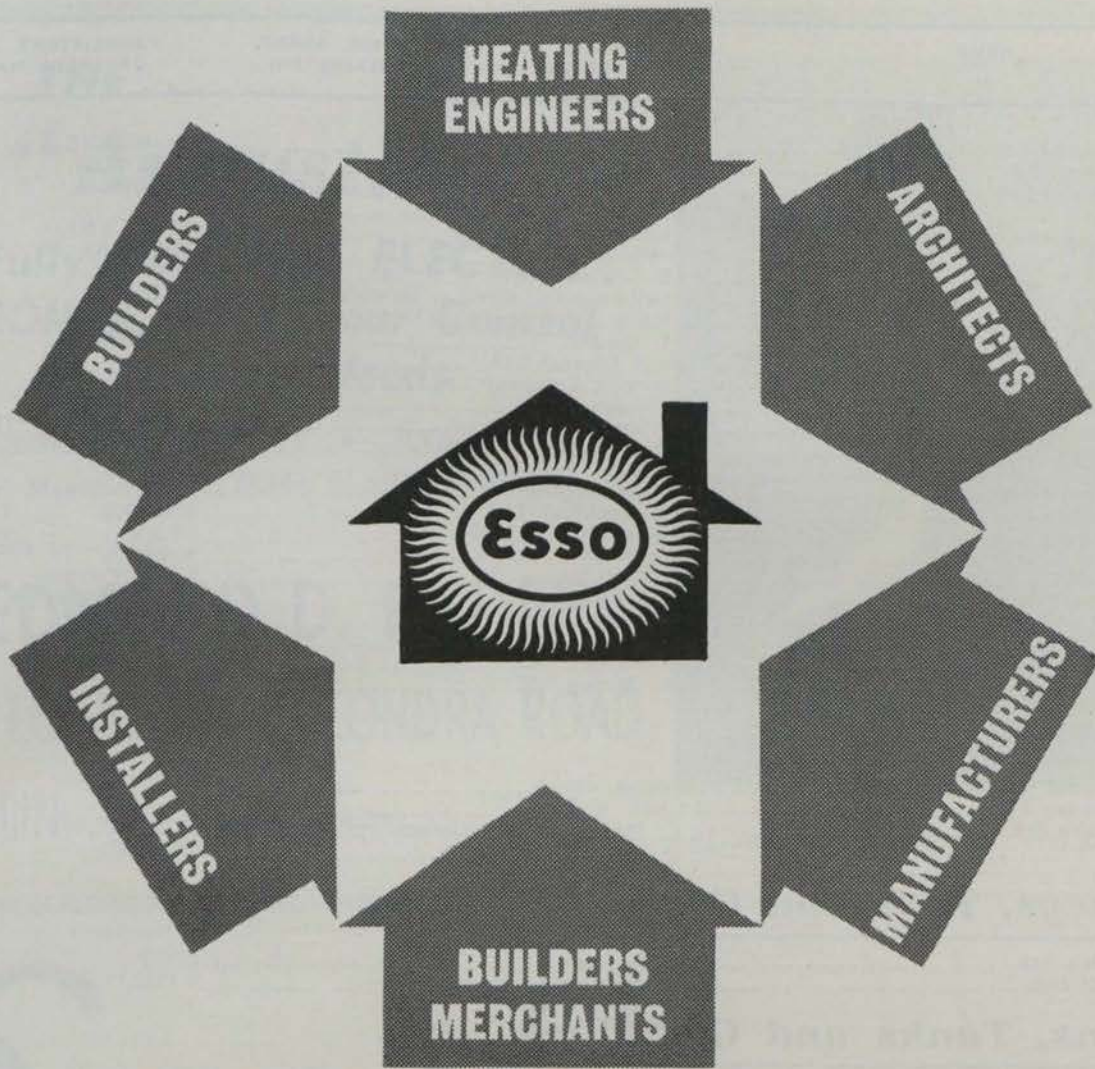
Burners, Solid Fuel

Joshua Bigwood & Son Ltd.	P. J. Casey	
Dansk, Stoker & Varmekedel Kompagni	Danish & Boiler Co. Ltd.	D.S.V.
Engineering Products Ltd.	Enquiries supplied direct	
Ruston & Hornsby Ltd.	Ruston & Hornsby Ltd. (Irish Office)	THERMAX
Suxé Combustion Ltd.	Thomas Heiton & Co. Ltd.	SUXE
Waterford Ironfounders Ltd.	Enquiries direct	MONA

Baths, Basins, Bidets and Sinks

Adamsez Ltd.	Enquiries supplied direct	ADAMSEZ
Allied Ironfounders Ltd.	Waterford Ironfounders Ltd.	ELYSIAN/VOGUE/LEISURE
Andrews Bros Ltd.	Alfred Briggs Ltd. (N.I.)	ELIZABETH ANN
Armitage Ware Ltd.	F. N. S. Ahern	"OVADALE"/ORIANA "DOVEDALE"
Associated Metal Works (Glasgow) Ltd.	Associated Metal Works Ltd. (Irish Office)	"ASSOCIATED METALS"
Belco Manufacturing Co. Ltd.	E. G. Mullane	BELCO
Curran Ltd.	Norman Stewart Ltd.	
C.S.A. Industries Ltd.	Enquiries supplied direct	
Dahl Brothers Ltd.	Enquiries supplied direct	DAHL

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OIL-FIRED CENTRAL HEATING

has a lot to offer you!

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ESSO HOME HEAT DEPT.

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TELEPHONE 881661

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
Easiclene Porcelain-Enamel (1938) Ltd.	Lowden & Partners Ltd. (N.I.)	EASICLENE
Fisher & Ludlow Ltd.	T. J. Phillips	FISHLOW
Fordham Pressings Ltd.	R. T. Large & Son	FORDHAM
Richard-Ginori	Arklow Pottery Limited	
Alfred Goslett & Co. Ltd.	Enquiries supplied direct	SWANLYNE
Gummers Ltd.	McGrath & Kenny	GUMMERS
Gummers Ltd.	M. A. Graham (N.I.)	
Hammond Lane Foundry Ltd.	Enquiries supplied direct or through merchants..	MAID
George Howson & Sons Ltd.	Stevenson & Turner Ltd. (N.I.)	HOLLYWOOD
Ideal-Standard Ltd.	E. J. Cocker	STANDARD
Ifoverkan, A. B.	Norman Stewart Ltd.	
Irish Foundries Ltd.	J. Corrie & Company Ltd.	CORRIE
Johnson Fireclay Co. Ltd.	F. C. Oxley	
Alfred Johnson & Son Ltd.	C. B. Sheridan	"PYRAMID"/VITRAMID
Oerietfabrik N. V.	Calumet Trading Co. Ltd.	LAVET/OCRIET
Klaus Rehahn	Kenneth M. Reynolds Ltd.	
K.D. Reinforced Plastics Ltd.	Enquiries supplied direct	K.D.
Shanks & Co. Ltd.	C. H. Lockhart Ltd.	SHANKS
Shires & Company Ltd.	Shires & Co. (Ireland) Ltd.	LYNX
W. & G. Sissons Ltd.	C. B. Sheridan	SISSONS
John Slater (Stoke) Ltd.	C. B. Sheridan	"WESTWOOD"
John Steventon & Sons Ltd.	R. T. Large & Son	ROYAL VENTON
The Taylor Rustless Fittings Co. Ltd.	Enquiries supplied direct	
Twyfords Ltd.	T. R. Ievers	TWYFORDS
W. H. Paul Ltd.	G. F. Morley Ltd.	PAUL
Wildblood & Taylor Ltd.	G. F. Morley Ltd.	

Calorifiers

Coppercraft Metal Works	Enquiries direct	
Hartley & Sugden Ltd.	McGrath & Kenny	
Holden & Brooke Ltd.	G. C. Pillinger & Co. (Ireland) Ltd.	NORDON/WYTHON
Lumbys Ltd.	G. F. Morley Ltd.	LUMBYS

Chimneys, Tops and Cowl

Colt Ventilation Ltd.	F. W. Norman	COLT
T. & C. Martin Ltd.	Enquiries supplied direct	"O.H."

Cisterns, Tanks and Cylinders

Armitage Ware Ltd.	F. N. S. Ahern	"UNISYLA"
Bendz Ltd.	Enquiries supplied direct	BENDZ
Cisterns Ltd.	Enquiries supplied direct or through merchants..	VIKING
Fordham Pressings Ltd.	R. T. Large & Son	VOLTA/ETERNA
G. A. Harvey & Co. (London) Ltd.	Enquiries supplied direct	
Osma Plastics Ltd.	V. H. Campbell	OSMA
Range Boilers Ltd.	Enquiries supplied direct	
Shanks & Co. Ltd.	C. H. Lockhart Ltd.	SHANKS
Shires & Co. (London) Ltd.	Shires & Co. (Ireland) Ltd.	LYNX
Twyfords Ltd.	T. R. Ievers	"UNITAS"

Cocks

British Steam Specialties Ltd.	British Steam Specialties Ltd. (Irish Office)...	BOSS
Hattersley (Ormskirk) Ltd.	W. H. Leech	HATTERSLEY
Manley & Regulus Ltd.	Kenneth M. Reynolds Ltd.	
F. W. Talbot & Co. Ltd.	S. W. Carty & Son	TALBOT

Coils

F. H. Biddle Ltd.	Quadrant Engineers	BIDDLE
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Compressors, Air or Gas

Keith Blackman Ltd.	Keith Blackman Ltd. (Irish Office)	
Shaw & Sons Ltd.	Halpin & Hayward Ltd.	SHAW

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**Fully Automatic ELECTRIC
BOILER Solve Your Central
Heating Needs**

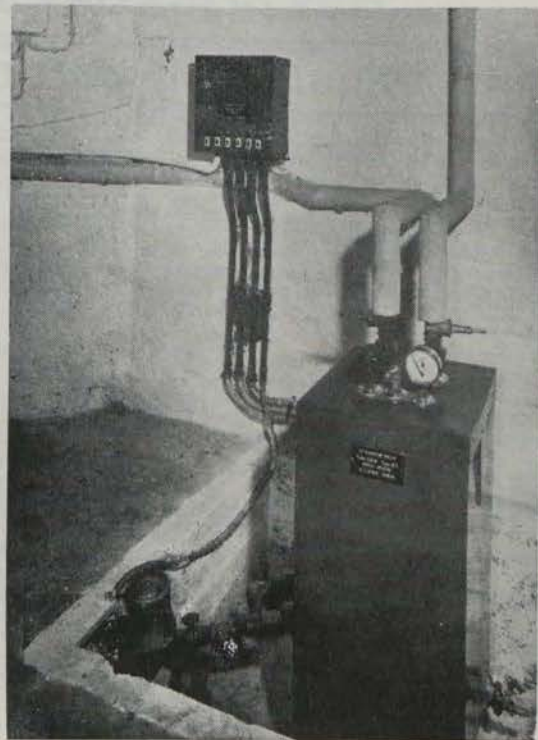
CLEAN ★ COMPACT ★ ECONOMICAL
★ Manufactured in Dublin to patent specification.

Enquiries to:—

EDMOND D. RYDER

46, LOWER DRUMCONDRA ROAD,
DUBLIN.

Telephone 45992.



BRITISH PATENT No. 875, 707, 17th AUG., 1959

Super-Vee*

combats atmospheric pollution with guaranteed 96% efficiency at minimum cost

Vokes Super-Vee is an inexpensive, expendable air filter which, because of its unique medium, can offer up to 25% greater capacity compared with similar filters of the same size. This medium, impregnated with a specially developed adhesive, combines high filtration efficiency (guaranteed 96% against Aloxite 50 Test Dust) with long life. Unaffected by moisture, non-cracking, and resistant to fungal growth, it is ideal for the collection of sooty or tarry deposits, **without any danger of fibre migration**. Vokes Super-Vee, which is fully interchangeable with other filters of its type, is already widely used in applications such as paint finishing plant, chemical laboratories, textile plant, distilleries and heating and ventilating installations. Write for details of how it can give you high filtration efficiency at lowest possible cost.

Comprehensive literature concerning all Vokes filters is available on request from the Sole Agents.

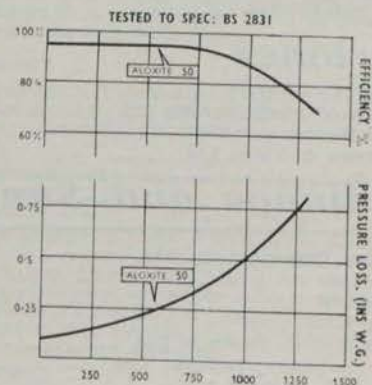
VOKES

*Registered Trade Name

THE LEINSTER ENGINEERING CO. LTD.

158-159 CHURCH STREET, DUBLIN.

Phone 77093/4



Dust Load on Filter (Grms.).
Filter Medium is Flame Resistant to BSS 476.

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ASSOCIATE CO., IRISH OFFICE, AGENT,
REPRESENTATIVE OR DISTRIBUTOR.

PROPRIETARY NAME
OR TRADE MARK.

Control Equipment and Controllers

British Rototherm Co. Ltd.	Rototherm Precision & Instrument Co. Ltd.	ROTOTHERM
Burgess Products Ltd.	Modern Plant Ltd.	BURGESS
Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Danfoss Ltd.	W. P. F. Hume & Co. Ltd. (N.I.)	DANFOSS
General Electric Company Ltd.	General Electric Co. of Ireland Ltd.	G.E.C.
Harford Pumps Ltd.	G. A. Reid	AQUAPACK
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Sons Ltd. (N.I.)	
Charles Portway & Son Ltd.	Irish Technical & Production Co. Ltd.	ODEST
Penn Controls Nederland	Manotherm Ltd.	PENN
The Rheostatic Co. Ltd.	R. E. Ayers	SATCHWELL
Square D. Co. Ltd.	Modern Plant Ltd.	
Thermoforce Ltd.	R. T. Large & Son	THERMOFOR
Thermocontrol Installations Co. Ltd.	Enquiries direct	ZONE-A-TROL
Tylors of London Ltd.	Tylors of Ireland Ltd.	TYLOR

Control Panels

Bastian & Allen Ltd.	Hendron Bros. (Machinery) Ltd.	B & A
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
General Electric Co. Ltd.	General Electric Co. of Ireland Ltd.	
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
Nu-Way Heating Plants Ltd.	Nu-Way Heating Plants Ltd. (Irish Office)	NU-WAY
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	
The Rheostatic Co. Ltd.	R. E. Ayers	SATCHWELL

Convectors

F. H. Biddle Ltd.	Quadrant Engineers	VECTAIR
F. A. Borchardt Ltd.	Preston Limited	DRUGASAR
Calovent Ltd.	Calovent Ltd. (Irish Office)	CALOVENT
Copperad Ltd.	British Steam Specialties Ltd. (Irish Office)	COPPERAD
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
Flexaire Ltd.	Enquiries supplied direct	
General Electric Co. Ltd.	General Electric Company of Ireland Ltd.	
Trane Ltd.	Enquiries supplied direct	

Coolers

F. H. Biddle Ltd.	Quadrant Engineers	
Copperad Ltd.	British Steam Specialties Ltd.	COPPERAD
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
J. & E. Hall Ltd.	J. & E. Hall Ltd. (Irish Office)	
Lightfoot Refrigeration Co. Ltd.	Lightfoot Refrigeration (Ireland) Ltd.	LIGHTFOOT
Stewarts & Lloyds Ltd.	Stewarts & Lloyds of Ireland Ltd.	S & L
York Shipley Ltd.	York Shipley Ltd. (Irish Office)	YORK

Cyclones

Andrew Air Conditioning Ltd.	F. G. Thornton	ANDREW
Keith Blackman Ltd.	Keith Blackman Ltd. (Irish Office)	
Matthews & Yates Ltd.	Enquiries supplied direct	

Drainage and Sanitation-Traps and Wastes

Barking Brassware Co. Ltd.	Enquiries supplied direct	
Belco Ltd.	E. G. Mullane	BELCO
Bendz Ltd.	Enquiries supplied direct or through Merchants	BENDZ
Conex-Terna Ltd.	Sanbra-Conex (I.) Ltd.	CONEX
Econa Modern Products Ltd.	Enquiries supplied direct	ECONA
Fyffe Couplings (Ireland) Ltd.	Enquiries direct or through Merchants	INSTANTOR
J. S. & F. Folkard Ltd.	A. H. Masser Ltd.	" VULCATHENE "
Greenwood & Hughes Ltd.	McGrath & Kenny	GREVAK
Gummers Ltd.	McGrath & Kenny	GUMMERS
Hans Grohe K.G.	Norman Stewart Ltd.	XCENTRA
Kay & Co. (Engineers) Ltd.	Enquiries supplied direct	KONTITE
Peglers Ltd.	Enquiries supplied direct	PEGLERS
Tylors of London Ltd.	Tylors of Ireland Ltd.	TYLORS

LIST OF ADDRESSES OF MANUFACTURERS AND AGENTS STARTS ON PAGE 47.

Ductair

DUCTAIR G105/23 GAS ONLY

Ductair G105/23 is designed for use in the average small house or flat. It pro-



CENTRAL HEATING BY FANNED WARM AIR GAS, OIL AND SOLID FUEL

vides full heating by ducted warm air for the living room and kitchen and background heating in the bedrooms by ducting or by spillover warm air from the hall. Warm air can also be diverted to a clothes drying cupboard. The unit is controlled by a room thermostat which automatically switches on both fan and burner immediately heat is called for. This system is specially suitable for installation in flats, including multi-storey blocks, where it makes possible individual metering. G105 needs no floor space—the cabinet hangs on the kitchen wall. Balanced flue and SE-duct models are available. It can be used for air circulation during the summer.

PERFORMANCE

Output: 23,000 Btu/h. This provides full heating for living rooms of 4000 to 6000 cu. ft. total capacity according to house insulation aspect etc. Alternatively full heating for a smaller living area with background warmth in the bedroom.

CENTRAL HEATING WITH HOT WATER DUCTAIR 22 — gas, oil and solid fuel

Ductair 22 provides the same services as the G105 plus constant hot water throughout the house and a heated towel rail. It is available for use with three different types of fuel. With the gas-fired model a C70 Circulator is used to supply hot water to the storage cylinder and to the heat exchanger in the Ductair cabinet. For the oil-fired version, a Parkray O35 oil boiler is used in the same way and, for solid fuel, a Parkray S55 or S56. In all cases the unit is controlled in the same way by a room thermostat.

PERFORMANCE

Output: 22,000 Btu/h. (space heating). This provides for a living area of 4000-5000 cu. ft. capacity, depending on insulation standards, etc. Alternatively, full heating for a smaller living area with background warmth in the bedrooms.

Domestic water heating, by gas, when providing space heating—5000 Btu/h., summer water heating only—12,000 Btu/h. By oil and solid fuel 5,000-10,000 Btu/h. depending on choice of water heater.

Parkray

PARKRAY G301/2 GAS

This new gas-fired boiler for central heating and hot water in the 2-3 bedroom home is specially designed to give maximum efficiency on both circuits with low gas consumption. Because it is designed to give economical water heating as a



continuous service, the time switch is arranged to control the central heating circuit only. This allows the water heating to recover even when the central heating is off (for instance, overnight) and together with its other features makes it possible for this unit to deal with peak loads in excess of the unit rating.

The particularly economical water heating is achieved by the unique circuit with special thermostat and High/Low burner control. This arrangement also ensures that the domestic hot water is always controlled to a maximum temperature of 155°F, and the central heating circuit to a desirable higher figure of approximately 175°F. This balanced-flue appliance can be mounted on any outside wall at high or low level and is particularly suitable for flat development. The stainless steel heat exchanger is corrosion resistant and requires the minimum of maintenance.

PERFORMANCE

Output: 25,000 Btu/h. This provides constant hot water and approximately 100 sq. ft. of radiating surface, depending on heating requirements, standards of insulation etc.

CENTRAL HEATING ONLY PARKRAY G301/1 — GAS

This version of the G301 is installed when the full output is required for central heating alone. The unit offers the same convenience of mounting and the same economy of maintenance.

PERFORMANCE

Output: 25,000 Btu/h. The unit provides forced circulation of hot water for a radiator circuit (approx. 125 sq. ft.) at a controlled temperature of 170°F. It is controlled by the room thermostat and time switch which are arranged to cut out the pump and burner without after heating.

PARKRAY G604 — GAS

This automatically controlled gas-fired unit gives a fast uniform flow of heat round the circuit. It will give full heating in all the rooms for a 3-4 bedroom house or flat, or a high level of background heating for the larger home. The hot water can be used to heat conventional radiators or skirting radiators. It is controlled by a wall thermostat, usually placed in the main living room.

PERFORMANCE

Output: 45,000 Btu/h. Typical heating surface: 220 sq. ft. with transmission rate of 170°F Btu/sq. ft./h. 100°F temperature difference. Controlled circulating water temperature: Mean 170°F.

PARKRAY S56 SOLID FUEL

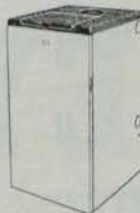
Hopper feed coke boiler

A large hopper over the Parkray S56 boiler holds sufficient fuel to look after all normal heating requirements for 24 hours. Even at maximum output the S56 will operate for 10 hours on one refueling. A waist-high external level provides effortless riddling and a prismatic viewer in the ashpit cover shows the state of the fire and the level of the ashes in the pan. The ashpan, of completely new design normally needs emptying only once a

day and is provided with a special cover that prevents any dust escaping. A fitted thermostat controls the rate of burning and a dial thermometer is available as an optional extra. The recommended fuels are Sunbrite hard coke and gas coke.

PERFORMANCE

Output: 33,000 Btu/h. Allowing 10,000 Btu/h. for domestic hot water, 115 sq. ft. of radiating surface can be heated. Central heating only—165 sq. ft. of radiating surface including unlagged pipes.



PARKRAY S25 — SOLID FUEL

This small boiler provides plenty of hot water for the small household, heats a radiator or two and gives gentle background warmth in the kitchen. A fuel hopper over the boiler cuts stoking to a minimum, and the new shaker grate ensures efficient clearance of ashes. Easy to install and economical to run, the S25 requires less than 18 inches square of floor space and stands only 25 inches high.

PERFORMANCE

Output: 15,000 Btu/h. When fitted with a 30 gallon indirect cylinder, the Parkray S25 will provide, in addition to domestic hot water supply, sufficient hot water to heat 30-40 sq. ft. of radiating surface, including unlagged pipes. When the boiler is not supplying hot water—80 sq. ft. of radiating surface.

Full technical information on all Radiation products is available from:

Radiation Parkray Limited, Radiation House, North Circular Road, Neasden, N.W.10. Telephone: WILlesden 1234



Marley rainwater goods, made of smooth glossy vinyl, need no maintenance—not even an initial painting! They're light in weight, easy to handle and fix, and they cannot deteriorate or wear out even in industrial or coastal atmospheres. Available from leading Builders' Providers.

MARLEY

VINYL GUTTERS AND DOWN PIPES

CONCRETE PRODUCTS OF IRELAND LTD., LUCAN, TEL. 381

Register of Manufacturers, Agents, Representatives and Distributors

In this special directory—the first of its kind ever published in Ireland—appliances, fittings and materials available in the Republic of Ireland and the North of Ireland are listed under the following main headings:

- Oil, Solid Fuel and Gas-Fired Boilers.
- Electric Heating Appliances.
- Thermostats and Controls.
- Pumps and Circulators.
- Radiators.
- Insulation Materials.
- Oil Storage Tanks.
- Ventilators & Fan Equipment.
- Sanitary Ware.
- Tap and Shower Fittings.
- Pipes, Jointings and Gutters.
- Tools and Welding Metals.
- Hot Water Supply Equipment and Boilers.
- Water Pumping Equipment.
- Water Storage Tanks.

★ ★ ★

Keep this register for future reference. It has been designed so that it can be easily separated from the magazine.

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York Shipley Ltd.York Shipley Ltd. (Irish Office) YORK

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General Electric Co. Ltd.General Electric Co. of Ireland Ltd. G.E.C.
Lightfoot Refrigeration Co. Ltd.Lightfoot Refrigeration (Ireland) Ltd. LIGHTFOOT

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Uni-Tubes Ltd.Technical Sales Company KOPEX

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Keith Blackman Ltd.Keith Blackman Ltd. (Irish Office)
Dunham-Bush Ltd.Henry R. Ayton Ltd. DUNHAM-BUSH
Woods of Colchester Ltd.General Electric Co. of Ireland Ltd. WOODS

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British Insulated Callenders Cables Ltd.British Insulated Callenders Cables Ltd. (Irish
Office) B.I.C.C.
Cambridge, E. J. (Heetrite) Ltd.Enquiries supplied direct HEETRITE
Clayton, Reginald Ltd.Enquiries direct DELUXETE
Colt Ventilation Ltd.F. W. Norman COLT
Dimplex Ltd.A. Bell & Co. (Ireland) Ltd. DIMPLEX
Ekco Heating & Electrical Ltd.Kelly & Shiel Ltd. THERMOVENT
Elsey & Gibbons Ltd.Enquiries supplied direct
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Falk, Stadlemann & Co. Ltd.Falk, Stadlemann & Co. Ltd. (Irish Office) ... FALKS

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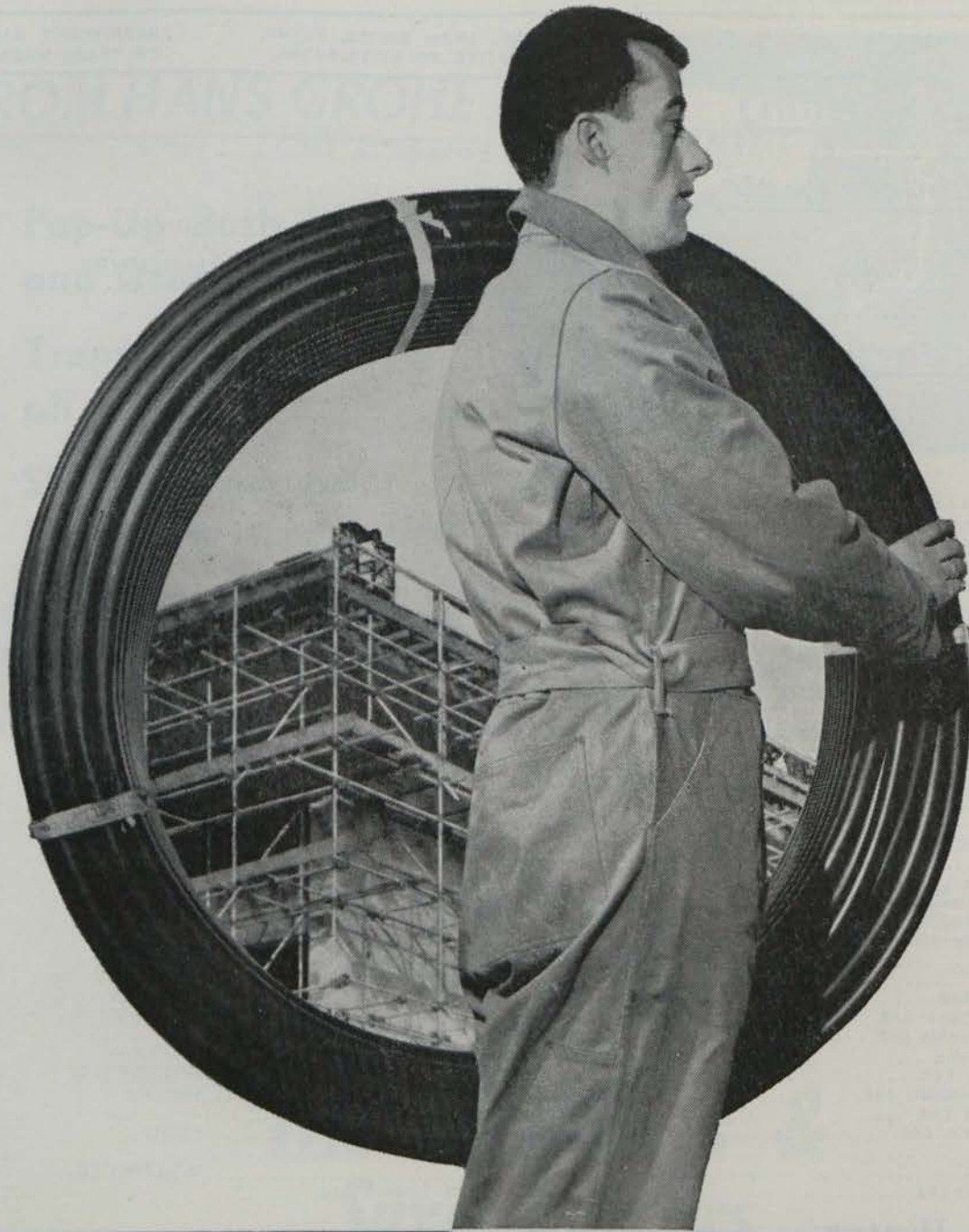
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O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	

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Thermal Products Ltd.	Enquiries direct or through Merchants	PH
Vermiculite Industries Ltd.	Enquiries supplied direct	FORFIX
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N. V. Nederlandse Steenwolfabriek	Technical Equipment Co. Ltd.	LAPINUS

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Hilmor Ltd.	Enquiries supplied direct	HILMOR
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Tubela Engineering Co. Ltd.	Enquiries supplied direct	TUBELA
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Lancashire & Corby Steel Manufacturing Co. Ltd.	Stewarts & Lloyds of Ireland Ltd.	
O.B.C. Limited	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Limited	Peter Macfarlane & Son Ltd. (N.I.)	
Oster Manufacturing Co. Ltd.	Monsell, Mitchell & Co. Ltd.	OSTER
Peglers Limited	Enquiries supplied direct	PEGLERS
Rotatools (U.K.) Ltd.	Manotherm Ltd.	DODD & MUNRO
Simplex (of Ireland) Ltd.	Enquiries supplied direct	SIMPLEX
Stanton Ironworks Co. Ltd.	Enquiries direct	STANTON
Stewarts & Lloyds Ltd.	Stewarts & Lloyds of Ireland Ltd.	S. & L.
F. W. Talbot & Co. Ltd.	S. W. Carty & Son	TALBOT
Temple Tubes Ltd.	V. H. Campbell	T.T.
Tubewrights Ltd.	Stewarts & Lloyds of Ireland Ltd.	
Turners Asbestos Cement Co. Ltd.	Asbestos Cement (Pipes) Ltd.	
Unidare Limited	Enquiries direct	HYDRODARE
Unidare Limited	Unidare Engineering Ltd. (Northern Ireland)	
Unit Superheater & Pipe Co. Ltd.	Stewarts & Lloyds of Ireland Ltd.	
Vokes Limited	Leinster Engineering Co. Ltd.	VOKES

LIST OF ADDRESSES OF MANUFACTURERS AND AGENTS STARTS ON PAGE 47.

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
Pipes and Tubes, Plastic		
British Insulated Callenders Cables Ltd.	B.I.C.C. Ltd. (Irish Office)	B.I.C.C.
British Steam Specialties Ltd.	British Steam Specialties Ltd. (Irish Office)	WAVIN/DURAPIPE
J. & S. F. Folkard Ltd.	A. H. Masser Ltd.	VULCATHENE
Marley Tile Co. Ltd.	Concrete Products of Ireland Ltd.	MARLEY
O'Brien Plastics Ltd.	Enquiries direct	
Osma Plastics Ltd.	V. H. Campbell	OSMA
Stewarts & Lloyds Ltd.	Stewarts & Lloyds of Ireland Ltd.	S. & L.
Unidare Ltd.	Enquiries supplied direct	
Unidare Ltd.	Unidare Engineering Ltd. (Northern Ireland)	
Wavin Pipes Ltd.	Enquiries supplied direct	WAVIN

Pipes and Tubes, Soil and Drain

Allied Ironfounders Ltd.	Waterford Ironfounders Ltd.	
Banagher Tiles Ltd.	Enquiries supplied direct	
Bendz Ltd.	F. E. Todd	BENDZ
Brook Pottery Ltd.	Enquiries direct	
Burn Brothers (London) Ltd.	Unidare Limited	TERRAIN
Clarecastle Clay Products Ltd.	Enquiries direct	
Flemings Fireclays Ltd.	Enquiries direct	
Galway Tile Co. Ltd.	Enquiries supplied direct	
Key Engineering Co. Ltd.	Norman Macnaughton & Sons (Dublin) Ltd.	KEY
Moracrete Ltd.	Enquiries supplied direct	MORACRETE
Rathcoole Tile & Pipe Works Ltd.	Enquiries supplied direct	
Slane Brick Co. Ltd.	Enquiries supplied direct	
Stanton Ironworks Co. Ltd.	Enquiries supplied direct	STANTON
Temple Tubes Ltd.	V. H. Campbell	T.T.
Turners Asbestos Cement Co. Ltd.	Asbestos Cement Ltd.	
Weatherwell Ltd.	Enquiries supplied direct	WEATHERWELL

Pressure Booster Sets

Rhodes, Brydon & Youatt Ltd.	Quadrant Engineers	
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Pressure Controllers

Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
Manotherm (E.N.F.M.)	Manotherm Ltd.	MANOTHERM

Pressurising Equipment

G. C. Pillinger & Co. Ltd.	G. C. Pillinger & Co. Ltd. (Irish Office)	PILLINGER
Pressurisation Ltd.	Quadrant Engineers	NITRO-UNIT
Warmac Ltd.	Hugh C. Maguire	WARMAC

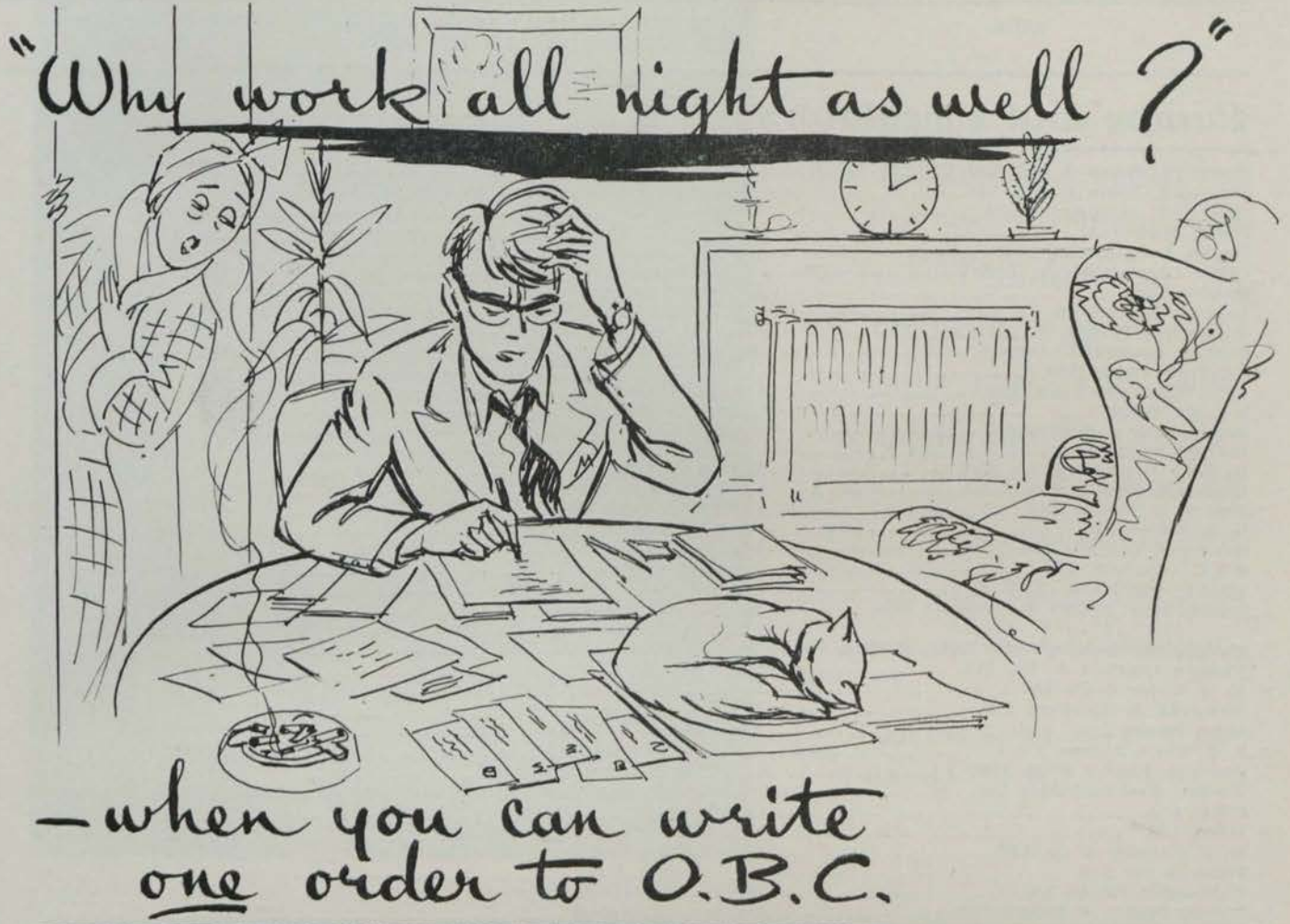
Pressure Switches

Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd.	
Rheostatic Co. Ltd.	R. E. Ayers	SATCHWELL

Pressure Vessels

Cochran & Co. (Annan) Ltd.	Enquiries direct	
Hammond Lane Industries Ltd.	Enquiries direct	
Harvey, G. A. & Co. Ltd.	Enquiries direct	
Marshall & Anderson Ltd.	D. P. Engert & Co.	
Sheet Metal Engineering Co. Ltd.	Enquiries direct	
Stewarts & Lloyds Ltd.	Stewarts & Lloyds of Ireland Ltd.	S. & L.
Thompson Bros. Ltd.	John Thompson Ltd.	
Universal Fabricators (Dublin) Ltd.	Enquiries direct	UFL
Warmac Ltd.	Hugh C. Maguire	WARMAC

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Phone: 810857.

MANCHESTER:

30 Peel Street, Chadderton, Oldham.

Phone: Oldham Main 9488.

BOURNEMOUTH:

183 Barrack Road, Christchurch, Hants.

Phone: Christchurch 1331.

BRISTOL:

3 Transom House, Victoria Street, 1.

Phone: 292694.

LEICESTER:

87 Avenue Road Extension.

Phone: 74908.

GLASGOW:

7 Park Circus Place.

Phone: Douglas 5115.

CARDIFF:

17 St. Andrew's Crescent.

Phone: 23526.

DUBLIN:

5 Upper Fitzwilliam Street.

Phone: 61653.

BELFAST:

23-27 Cupar Street, Belfast, 13.

Phone: Belfast 31576.

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
Pumps and Circulators		
Beresford, James & Son Ltd.	Unidare Ltd.	BERESFORD
Beresford, James & Son Ltd.	Unidare Engineering Ltd. (Northern Ireland) ...	
Berry Hill (Engineers) Ltd.	Irimesco Ltd.	
Blake, John Ltd.	D. P. Engert & Co.	DANFOSS
Bowser International Ltd.	Peter Macfarlane & Co. Ltd.	BOWSER
Celtic Engineering Co. Ltd.	Enquiries supplied direct	GOULD
Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Delmore Engineering Co. Ltd.	O.B.C. Ltd. (Irish Office)	DELMORE
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
Edwards Engineering Corp.	Hugh C. Maguire	EDWARDS
Gwynne's Pumps Ltd.	D. P. Engert & Co.	
J.L.C. Engineering Co. Ltd.	Enquiries direct	J.L.C.
N.V. Duroplast	Couper Distributors Ltd.	LOMATIC
Hammelrath & Schwenzler	Hendron Bros. (Dublin) Ltd.	DIA
Harford Pumps Ltd.	G.A. Reid	OPIO
Harland Engineering Co. Ltd.	Hughes & Coyle	
Holden & Brooke Ltd.	G. C. Pillinger & Co. Ltd. (Irish Office).....	SELFIN
Holden & Brooke Ltd.	J. Hind & Sons Ltd. (Northern Ireland)	
H. R. Holfeld Ltd.	Enquiries supplied direct	WATERPAK/LOEWEFlyGT
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
H.V.E. (Electric) Ltd.	Enquiries supplied direct	
Ideal-Standard Ltd.	E. J. Cocker	
International Boilers & Radiators Ltd.	Monsell Mitchell & Co. Ltd.	SIGMUND THERMOPAK/ SILENTFLO
Koninklijke Machinefabrick Gebr. Stork & Co. ..	Hendron Bros. (Dublin) Ltd.	STORK
Thomas Lenehan & Co. Ltd.	Enquiries direct	SABRE JET
R. A. Lister & Co. Ltd.	R. A. Lister & Co. Ltd. (Irish Office)	
McFerran & Guildford Ltd.	Enquiries direct	ROVI
Mono Pumps Ltd.	Mono Pumps Ltd. (Irish Office)	MONO
F. E. Myers & Bros. Co.	Hendron Bros. (Dublin) Ltd.	MYERS
Newman, Hender & Co. Ltd.	C. H. Lockhart Ltd.	
Nu-Way Heating Plants Ltd.	Nu-Way Heating Plants Ltd. (Irish Office) ...	NU-WAY
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd.	
G. C. Pillinger & Co. Ltd.	G. C. Pillinger & Co. Ltd. (Irish Office)	PILLINGER
Plenty & Son Ltd.	D. P. Engert & Co.	
Pulsometer Pumps Ltd.	O.B.C. Ltd. (Irish Office)	
Rhodes Brydon & Yonath Ltd.	Quadrant Engineers	MO-PUMP
Radiation Parkray Ltd.	L. C. Young	
Rotherhams Ltd.	Enquiries direct	ROTHERHAM
Ryaland Pumps Ltd.	W. H. Leech	RY-FLOW
Saunders Valve Co. Ltd.	P. J. Casey	SAFRAN
Sealed Motor Construction Co. Ltd.	British Steam Specialties Ltd. (Irish Office)....	RADPUMP
Steel Radiators Ltd.	Hugh C. Maguire	
Stuart Turner Ltd.	D. P. Engert & Co.	
Sumo Pumps Ltd.	Thompson & Co. Ltd.	SUMO
Unidare Ltd.	Enquiries direct	AQUADARE
Unidare Ltd.	Unidare Engineering Ltd. (Northern Ireland) ...	
Worthington-Simpson Ltd.	Worthington-Simpson Ltd. (Irish Office)	MONOBLOC

Pyrometers

Buck & Hickman Ltd.	Enquiries direct	
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
West Instruments Ltd.	Manotherm Ltd.	WEST

Radiators

Beeston Boiler Co. Ltd.	I.F. Glasgow	BEESTON
Brightside Heating & Engineering Co. Ltd.	Brightside Engineering Co. (Ireland) Ltd.	
British Steam Specialties Ltd.	British Steam Specialties Ltd. (N. Ireland)....	BOSS-ROBBE
Calovent Ltd.	Hugh C. Maguire	CALOVENT
Copperad Ltd.	British Steam Specialties Ltd.	COPPERAD
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
Edwards Engineering Corp.	Hugh C. Maguire	ZONE-A-MATIC
Glow-Worm Boilers Ltd.	Monsell, Mitchell & Co. Ltd.	GLOW-WORM
Ideal-Standard Ltd.	E. J. Cocker	RAYRAD
International Boilers & Radiators Ltd.	Monsell Mitchell & Co. Ltd.	INTERNATIONAL
Keeling, J. H. Ltd.	G. F. Morley Ltd.	
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	

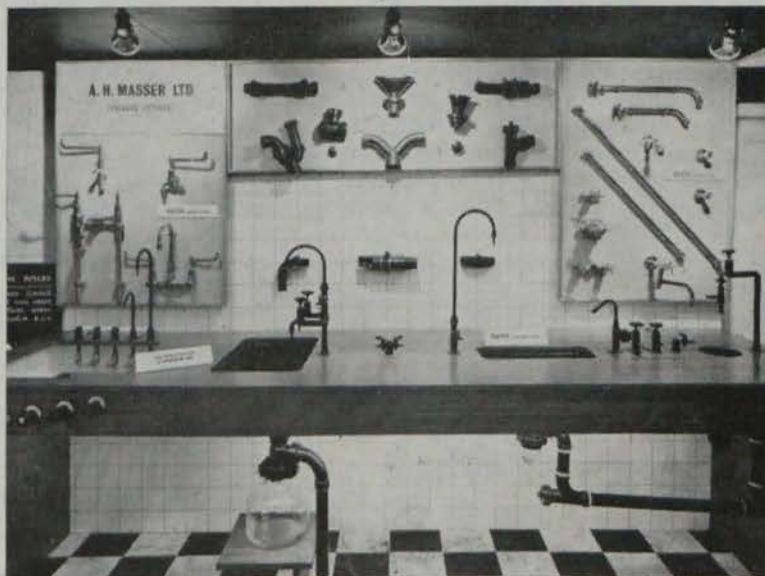
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NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
W. H. Paul Ltd.	G. F. Morley Ltd.	PAULOMATIC
Perkins Boilers Ltd.	Enquiries direct	PERKINS
Powell Duffryn Heating Ltd.	D. H. Sullivan	GULF
Rasmussen, H. & Co. Ltd.	Hugh C. Maguire	RIPPLE-RAD
Robbé, De Vries & Co.	G. F. Morley Ltd.	ROBBE
Societe Generale de Fonderie	Irish Technical & Production Co. Ltd.	CHAPPEE
Steel Radiators Ltd.	Hugh C. Maguire	STELRAD
The Valor Co. Ltd.	Esso Petroleum (Ireland) Ltd.	VALOR
J. B. Van Heijst en Zonen N.V.	J. B. Van Heijst & Sons Ltd.	VEHA
Wilson, Henry & Co. Ltd.	George A. Reid	WILSON

Recording Equipment and Recorders

British Rotothem Co. Ltd.	Rotothem Precision & Instrument Co. Ltd.	ROTOTHERM
Cleveland Meters Ltd.	Marotherm Ltd.	CLEVELAND
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
George Kent Ltd.	S. W. Carty & Son	KENT
Manotherm (E.N.F.M.)	Manotherm Ltd.	MANOTHERM
John Thompson Ltd.	John Thompson Ltd. (N.I. Office)	
Tylors of London Ltd.	Tylors of Ireland Ltd.	TYLOR
Walker, Crossweller & Co. Ltd.	Modern Plant Ltd.	ARKON

Refractories

Curtis (Onx) Ltd.	Hugh C. Maguire	
Darlington Insulation Co. Ltd.	Goodbody Ltd.	
Nu-Way Heating Plants Ltd.	Nu-Way Heating Plants Ltd. (Irish Office)	NU-WAY
O.B.C. Limited	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Limited	Peter Macfarlane & Son Ltd. (N.I.)	
Plibrico Co. Ltd.	Ha'pin & Hayward Ltd.	PLIBRICO

Refractory Linings

Corrosion Ltd.	L. R. Wood Ltd.	FURNASCOTE
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Refrigeration Plant

Chrysler Airtemp Ltd.	Everton Engineering Ltd. (N.I.)	CHRYSLER
Chrysler Airtemp Ltd.	H. A. O'Neil Ltd.	AIRTEMP
Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
Frigidaire Div. of General Motors Ltd.	A. G. Bruty Ltd.	FRIGIDAIRE
J. & E. Hall Ltd.	J. & E. Hall Ltd. (Irish Office)	
Lec Refrigeration Ltd.	Recold Ltd.	LEC
Lightfoot Refrigeration Co. Ltd.	Lightfoot Refrigeration (Ireland) Ltd.	LIGHTFOOT
L. Sterne & Co. Ltd.	L. Sterne & Co. (Ireland) Ltd.	STERNE
Stewarts & Lloyds Ltd.	Stewarts & Lloyds of Ireland Ltd.	
John Thompson Ltd.	John Thompson Ltd. (N.I. Office)	
Trane Ltd.	Enquiries suppl'd direct	
York Shipley Ltd.	York Shipley Ltd. (Irish Office)	YORK

Regulators

Andrew Air Conditioning Ltd.	F. G. Thornton	ANDREW
Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Drayton Controls Ltd.	Monsell, Mitchell & Co. Ltd.	DRAYTON
Hattersley (Ormskirk) Ltd.	W. H. Leech	HATTERSLEY
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
Ideal-Standard Ltd.	E. J. Cocker	
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	
Rheostatic Co. Ltd.	R. E. Ayers	SATCHWELL
Selas Gas & Eng. Co. Ltd.	A. H. Masser Ltd.	SELAS

Roofing Copper

Delta Enfield Rolled Metals Ltd.	Norman Stewart Ltd.	
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LIST OF ADDRESSES OF MANUFACTURERS AND AGENTS STARTS ON PAGE 47.

The Irish Plumber and Heating Contractor.

★ **Stuart Turner Ltd.**

Henley-on-Thames, Oxon.

- SMALL PUMPS AND MARINE ENGINES.

★ **Plenty & Son Ltd.**

Newbury

- OIL PUMPS AND FILTERS.

★ **John Blake Ltd.**

Accrington, Lancs.

- BOILER FEED PUMPS.

★ **Marshall & Anderson Ltd.**

Motherwell

- STEAM AND H.W. BOILERS.

★ **Gwynnes Pumps Ltd.**

Lincoln and London

- CENTRIFUGAL PUMPS.

★ **Alley & MacLellan Ltd.**

Worcester

- CI AND STEEL VALVES.

★ **Glenfield & Kennedy Ltd.**

Kilmarnock

- WATERWORKS VALVES & FITTINGS

★ **William Boby & Co. Ltd.**

Rickmansworth, Herts.

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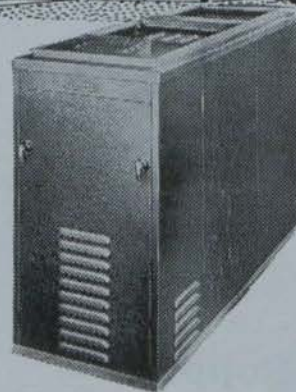
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NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
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Roof Drains, Waterheads Gutters and Outlets

Allied Ironfounders Ltd.	Waterford Ironfounders Ltd.	
Allied Structural Plastics Ltd.	Enquiries direct	ASPECT
Baxendale & Co. Ltd.	Baxendale & Co. Ltd. (Irish Office)	
Burn Bros. (London) Ltd.	Unidare Ltd.	TERRAIN
Carthorn (1949) Ltd.	Enquiries direct or through Merchants	UFL
Chadwicks (Dublin) Ltd.	Enquiries direct or through Merchants	
Finlock Gutters Ltd.	Enquiries direct	FINLOCK
Key Engineering Co. Ltd.	Norman Macnaughton & Sons (Dublin) Ltd.	KEY
Kilkenny Products Ltd.	Enquiries direct	K.P.
Marley Tile Co. Ltd.	Concrete Products of Ireland Ltd.	MARLEY
O'Brien Plastics Ltd.	Enquiries direct	
Osma Plastics Ltd.	North Down Equipment Co. Ltd.	OSMA
Temple Tubes Ltd.	North Down Equipment Co. Ltd.	T.T.
The Nuralite Co. Ltd.	Thomas Dockrell, Sons & Co. Ltd.	NURALITE
Turners Asbestos Cement Ltd.	Asbestos Cement Ltd.	EVERITE

Roof Units (Ventilation)

Andrew Air Conditioning Ltd.	F. G. Thornton	ANDREW
Brooks Ventilation Units Ltd.	Enquiries direct	BROOKS
Colt Ventilation Ltd.	F. W. Norman	COLT
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
Greenwoods & Airvac Ventilating Co. Ltd.	Technical Sales Company	
Heywood-Helliwell Ltd.	W. H. Heywood & Co. (Ireland) Ltd	
London Fan & Motor Co. Ltd.	Enquiries direct	BREEZA
Morlite Ltd.	Enquiries direct	MORLITE
Woods of Colchester Ltd.	General Electric Co. of Ireland Ltd.	WOODS

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C. & P. Development Co. (London) Ltd.	C. & P. Development Co. (Ireland) Ltd.	RUST-ANODE
Expandite Ltd.	Expandite (Ireland) Ltd.	METAGALV/GEWI TAPE
Thomas Parsons & Sons Ltd.	Thomas Parsons & Sons Ltd. (Irish Office) ...	
Winn & Coales Ltd.	Alex Engineering Co. Ltd.	DENSO

Sealing Compounds

Evomastics Ltd.	Evode Industries Ltd.	
Expandite Ltd.	Expandite (Ireland) Ltd.	SEEL-A-STRIP
Expandite Ltd.	Expandite (Ireland) Ltd.	SEEL-A-ROUND
Expandite Ltd.	Expandite (Ireland) Ltd.	P.C.4/ASBESTUMEN

Sewerage Disposal

Jones & Attwood Ltd.	D. P. Engert & Co.	
Farrar, Wm. E. Ltd.	T. & C. Martin Ltd.	

Sight Glasses

British Steam Specialties Ltd.	British Steam Specialties Ltd.	BOSS
Newman, Hender & Co. Ltd.	Newman Hender & Co. Ltd. (Irish Office)	

Silencers

Keith Blackman Ltd.	Keith Blackman Ltd. (Irish Office)	
Vokes Ltd.	Leinster Engineering Co. Ltd.	VOKES
Woods of Colchester Ltd.	General Electric Co. of Ireland Ltd.	

Steam Traps

British Steam Specialties Ltd.	British Steam Specialties Ltd. (Irish Office)....	VELAN
Drayton Controls Ltd.	Monsell, Mitchell & Co. Ltd.	DRAYTON
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
Lancaster & Tonge Ltd.	Halpin & Hayward Ltd.	LANCASTER
Trane Ltd.	Enquiries direct	

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The Irish Plumber and Heating Contractor.

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETORY NAME OR TRADE MARK.
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Stokers

Allied Ironfounders Ltd.	Enquiries direct	WATTS
Beeston Boiler Co. Ltd.	I.F. Glasgow	BEESTON
Nu-Way Heating Plants Ltd.	Nu-Way Heating Plants Ltd. (Irish Office)	NU-WAY
Nu-Way Heating Plants Ltd.	Peter Macfarlane & Son Ltd.	
James Hodgkinson (Salford) Ltd.	Enquiries direct	
John Thompson Ltd.	John Thompson Ltd. (N.I. Office)	

Tanks and Cylinders

Andrew Air Conditioning Ltd.	F. G. Thornton	ANDREW
Auto-Combustions Ltd.	Auto-Combustions (Ireland) Ltd.	
Beeston Boiler Co. Ltd.	I.F. Glasgow	BEESTON
Blackrock Engineering Co. Ltd.	Enquiries direct	
British Steam Specialties Ltd.	British Steam Specialties Ltd. (Irish Office)	
Carthorn (1949) Ltd.	Enquiries direct	UFL
Carthorn (1949) Ltd.	W. D. Craig & Co. (Northern Ireland)	
Coppercraft Metal Works	Enquiries direct	
Griffith Bros.	Enquiries direct	
Hammond Lane Industries Ltd.	Enquiries direct	
Hartley & Sugden Ltd.	McGrath & Kenny	
Ideal-Standard Ltd.	E. J. Cocker	
Osma Plastics Ltd.	V. H. Campbell	OSMA
Thompson Bros. (Bilston) Ltd.	John Thompson Ltd. (N.I. Office)	

Taps, Mixers and Shower Units

Aerotaps Ltd.	Enquiries direct	AEROTAPS
Adamsez Ltd.	Enquiries direct	ADAMSEZ
Armitage Ware Ltd.	F. N. S. Ahern	NUASTYLE
James Barwell Ltd.	C. B. Sheridan	FIDDIAN
Belco Manufacturing Co. Ltd.	E. G. Mullane	BELCO
F. H. Bourner Co. Ltd.	George A. Reid	SUPATAPS/SPA
J. S. & F. Folkard Ltd.	A. H. Masser Ltd.	VULEX
Friedrick Grohe GmbH.	Norman Stewart Ltd.	GROHE
Fyffe Couplings (Ireland) Ltd.	Enquiries direct	FYFFE'S
Gummers Ltd.	McGrath & Kenny	GUMMERS
Gummers Ltd.	M. A. Graham (N.I.)	
Grohe Thermostat GmbH	Norman Stewart Ltd.	GROHE THERMOSTAT
Harford Pumps Ltd.	George A. Reid	AQUAMIX/MIXFORD
Ideal-Standard Ltd.	E. J. Cocker	IDEAL
International Boilers & Radiators Ltd.	Monsell, Mitchell & Co. Ltd.	SIGMIX
Leisure Kitchen Equipment Ltd.	R. T. Large & Son	LEISURE
Ocriet France S.A.	Calumet Trading Co. Ltd.	FERROSTA
Newman, Hender & Co. Ltd.	C. H. Lockart	
Peglers Ltd.	Enquiries direct	PEGLERS
Sanbra Ltd.	Sanbra-Conex (Ireland) Ltd.	CONEX
Shanks & Co. Ltd.	C. H. Lockart Ltd.	SHANKS
Walker, Croswell & Co. Ltd.	Modern Plant Ltd.	LEONARD/UNATAP
Charles Winn & Co. Ltd.	J. S. Lister Ltd.	WINN

Thermometers, Temperature Indicators, etc.

British Rototherm Co. Ltd.	Rototherm Precision & Instrument Co. Ltd.	ROTOTHERM
British Steam Specialties Ltd.	British Steam Specialties Ltd. (Irish Office)	BOSS
Honeywell Controls Ltd.	(Irish Office)	HONEYWELL
Kosmos Armaturen-Und Apparatebau Franz Baumeister K.G.	Manotherm Ltd.	
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	
Manotherm (E.N.F.M.)	Enquiries direct	MANOTHERM
Odin Clorius	Modern Plant Ltd.	CLORIUS
Rheostatic Co. Ltd.	R. E. Aye's	SATCHWELL
Rueger, Lausanne	Manotherm Ltd.	
Thermocontrol Installations Co. Ltd.	Enquiries direct	ZONE-A-TROL

LIST OF ADDRESSES OF MANUFACTURERS AND AGENTS STARTS ON PAGE 47.

TECHNICAL SALES CO. LTD.

79 Lower Leeson Street, Dublin

Telephone: 61662.

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Greenwoods & Airvac Ventilating Co. Ltd.

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“Extraire” fan units.

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Kemp & Lauritzen

Equivalent of the electric meter for recording heat consumption in homes, offices, flats, factories, etc.

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VENTILATION SYSTEMS, etc.

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for industrial/commercial lighting, iron-clad switch-gear, cubicle control panels, flame-proof equipment, conduit and fittings, etc.

WM. McGEOCH & CO. LTD.

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TECHNICAL SALES CO. LTD.

Register of Manufacturers, Agents, Representatives and Distributors

In this special directory—the first of its kind ever published in Ireland—appliances, fittings and materials available in the Republic of Ireland and the North of Ireland are listed under the following main headings:

- Oil, Solid Fuel and Gas-Fired Boilers.
- Electric Heating Appliances.
- Thermostats and Controls.
- Pumps and Circulators.
- Radiators.
- Insulation Materials.
- Oil Storage Tanks.
- Ventilators & Fan Equipment.
- Sanitary Ware.
- Tap and Shower Fittings.
- Pipes, Jointings and Gutters.
- Tools and Welding Metals.
- Hot Water Supply Equipment and Boilers.
- Water Pumping Equipment.
- Water Storage Tanks.

★ ★ ★

Keep this register for future reference. It has been designed so that it can be easily separated from the magazine.

NAME.	ASSOCIATE CO., IRISH OFFICE, AGENT, REPRESENTATIVE OR DISTRIBUTOR.	PROPRIETARY NAME OR TRADE MARK.
Thermostatic Controls		
Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd.	
Penn Controls Nederland	Manotherm Ltd.	PENN
R. B. Pullin & Co. Ltd.	National Agencies Ltd.	PULLIN
Rheostatic Co. Ltd.	R. E. Ayers	SATCHWELL
Thermocontrol Installations Co. Ltd.	Enquiries direct	ZONE-A-TROL
John Thompson Ltd.	John Thompson Ltd. (N.I. Office)	

Time Switches

O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	
Venner Ltd.	Roper Bros. Ltd.	VENNER

Tools

Black & Decker Ltd.	Electric Tools Service Ltd.	BLACK & DECKER
British Oxygen Co. Ltd.	Industrial Gases (I.F.S.) Ltd.	
Buck & Hickman Ltd.	Enquiries direct	
Hendron Bros (Dublin) Ltd.	Enquiries direct	SIEVERT
Interlas Ltd.	Welding Services Ltd.	ZIPWELD
Kjellbergs Successors A.B.	Enquiries direct	OPTIMUS
Peugeot & Cie	Irimesco Ltd.	
Philplug Products Ltd.	Expandite (Ireland) Ltd.	PHILPLUG
The Rawlplug Co. Ltd.	Enquiries direct	RAWLPLUG
The Ridge Tool Co.	Hendron Bros. (Dublin) Ltd.	RIDGID
F. W. Talbot & Co. Ltd.	S. W. Carty & Son	TALBOT
Ucan Development Ltd.	Calumet Trading Co. Ltd.	HILTI
Wolf Electric Tools Ltd.	P. E. O'Brien & Sons Ltd.	WOLF

Unit Heaters

F. H. Biddle Ltd.	Quadrant Engineers	BIDDLE
Calovent Ltd.	Hugh C. Maguire	CALOVENT
Copperad Ltd.	British Steam Specialties Ltd.	COPPERAD
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
General Electric Co. Ltd.	General Electric Co. of Ireland Ltd.	
Ideal-Standard Ltd.	E. J. Cocker	
Keith Blackman Ltd.	Keith Blackman Ltd. (Irish Office)	HEAT THROW
Mather & Platt Ltd.	Enquiries direct	THERMOLIER

Valves

Alley & Maclellan Ltd.	D. P. Engert & Co.	
Audco Ltd.	Modern Plant Ltd.	AUDCO
Barwell, James, Ltd.	C. Brinsley Sheridan	FIDDIAN
Belco Manufacturing Co. Ltd.	E. G. Mullane	BELCO
British Steam Specialties Ltd.	British Steam Specialties Ltd.	BOSS/VELAN
Brooks & Walker Ltd.	Halpin & Hayward Ltd.	
Cisterns Ltd.	Enquiries direct	
Conex-Terna Ltd.	Sanbra-Conex (Ireland) Ltd.	CONEX
Crane Ltd.	Enquiries direct	CRANE
Danfoss Ltd.	J. J. Sampson & Son Ltd.	DANFOSS
Delmore Engineering Co. Ltd.	O.B.C. Ltd. (Irish Office)	
Dunham-Bush Ltd.	Henry R. Ayton Ltd.	DUNHAM-BUSH
J. S. & F. Folkard Ltd.	A. H. Masser Ltd.	
Fordham Pressings Ltd.	R. T. Large & Son	
Fyffe Couplings (Ireland) Ltd.	Enquiries direct	ENDEX
Glenfield & Kennedy Ltd.	D. P. Engert & Co.	
Gummers Ltd.	McGrath & Kenny	GUMMERS
Harford Pumps Ltd.	George E. Reid	TWIN ACTION
Hatterday (Ormskirk) Ltd.	W. H. Leech	DEL-FLO
Hindle, Joshua & Sons Ltd.	D. P. Engert & Co.	

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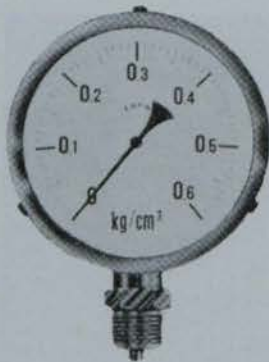
Standard or special designs.

Agents in Ireland:

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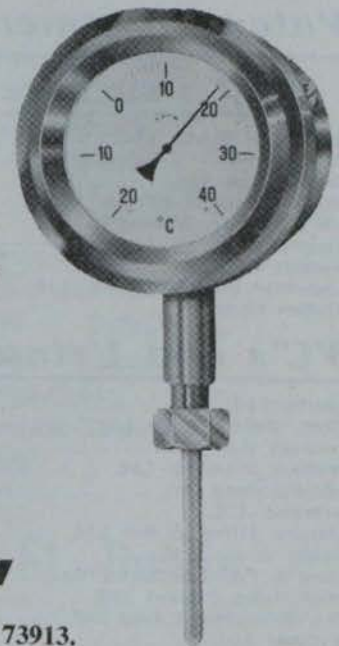
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Honeywell Controls Ltd.	Honeywell Controls Ltd. (Irish Office)	HONEYWELL
Koswa Ltd.	Hugh C. Maguire	KOSWA
Newman, Hender & Co. Ltd.	C. H. Lockhart & Co. Ltd.	
Odin Clorius	Modern Plant Ltd.	CLORIUS
O.B.C. Ltd.	O.B.C. Ltd. (Irish Office)	O.B.C.
O.B.C. Ltd.	Peter Macfarlane & Son Ltd. (N.I.)	
Seetru Ltd.	Manotherm Ltd.	SEETRU
Southern Engineering Group Ltd.	R. T. Large & Son	VICTORY
Stewarts & Lloyds Ltd.	Stewarts & Lloyds of Ireland Ltd.	
The Silent Ballecock Co. Ltd.	Irish Equipment Co. Ltd.	CRAIG
Phernocontrol Installations Co. Ltd.	Enquiries direct	ZONE-A-TROL
Trent Valve Co. Ltd.	Halpin & Hayward Ltd.	TRENT
Walker, Crowweller & Co. Ltd.	Modern Plant Ltd.	
Charles Winn & Co. Ltd.	J. S. Lister Ltd.	WINN
Rheostatic Co. Ltd.	R. E. Ayers	SATCHWELL
James Barwell Ltd.	C. B. Sheridan	BARWELL

Valves, Reducing

British Steam Specialties Ltd.	British Steam Specialties Ltd. (Irish Office)	BOSS
F. W. Talbot & Co. Ltd.	S. W. Carty & Son	TALBOT YOUNG

Ventilating Panels

Colt Ventilation Ltd.	F. W. Norman	COLT
Greenwoods & Airvac Ventilating Co. Ltd.	Technical Sales Company	

Ventilators

Buck & Hickman Ltd.	Enquiries direct	
F. H. Biddle Ltd.	Quadrant Engineers	
Colt Ventilation Ltd.	F. W. Norman	COLT
Greenwoods & Airvac Ventilating Co. Ltd.	Technical Sales Company	
Hall-Thermotank Ltd.	J. & E. Hall Ltd.	
Peugeot & Cie	Irimesco Ltd.	
Vent-Axia Ltd.	Traders Magnet & Dynamo Ltd.	VENT-AXIA
Woods of Colchester Ltd.	General Electric Co. of Ireland Ltd.	

Wastes Disposal Units

W. & G. Sissons Ltd.	C. B. Sheridan	WHIRL-A-WASTE
Tayco Boilers Ltd.	Enquiries direct	TAYCO
Wynbourne-Satoba Equipment Ltd.	Enquiries direct	IN-SINK-ERATOR

Water Treatment Equipment and Processes

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Bell Bros. Ltd.	A. H. Masser Ltd.	
Boby, William Ltd.	D. P. Engert & Co.	
British Berkefeld Filters Ltd.	George A. Reid	STERASYL
Irish Feedwater Specialists Ltd.	Halpin & Hayward Ltd.	ALGOR
Liverpool Borax Co. Ltd.	Halpin & Hayward Ltd.	PLUVITE
Permutit Co. Ltd.	R. S. White Ltd.	PERMUTIT
Pulsometer Engineering Co. Ltd.	O.B.C. Ltd. (Irish Office)	
Theodor Christl	Quadrant Engineers	

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Adamsez Ltd.	Enquiries direct	ADAMSEZ
Alfred Goslett & Co. Ltd.	Enquiries direct	SWANLYNE
Armitage Ware Ltd.	F. N. S. Ahern	UNISYLA
Fordham Pressings Ltd.	R. T. Large & Son	FORDHAM
Ideal-Standard Ltd.	E. J. Cocker	STANDARD
Hoverkan A.B.	Norman Stewart Ltd.	
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Shires & Co. (London) Ltd.	Shires (Ireland) Ltd.	
Slater, John (Stoke) Ltd.	C. Brinsley Sheridan	WESTWOOD
John Steventon & Sons Ltd.	R. T. Large & Son	ROYAL VENTON
Twyford Ltd.	T. R. Ievers	TWYFORDS

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PROPRIETARY NAME
OR TRADE MARK.

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E. P. Barrus (Concessionaires) Ltd.	Monsell Mitchell & Co. Ltd.	DEVCON
British Oxygen Co. Ltd.	Industrial Gases (I.F.S.) Ltd.	SIEVERT
British Oxygen Co. Ltd.	British Oxygen Co. Ltd. (Northern Ireland) ...	
Buck & Hickman Ltd.	Enquiries direct	
English Electric Co. Ltd.	Welding Services Ltd.	ENGLISH ELECTRIC
Fry's (London) Ltd.	Fry's Metal Foundries Ltd. (Irish Office)	FRY'S
Hendron Bros (Dublin) Ltd.	Enquiries direct	
Industrial Gases (I.F.S.) Ltd.	Enquiries direct	
Interlas Ltd.	Welding Services Ltd.	INTERLAS
Kirk & Co. (Tubes) Ltd.	D. P. Engert & Co.	
McKechnie Bros Ltd.	C. H. Lockhart	" QUASI-ARC "
McMullans Kosangas Ltd.	Enquiries direct	
Meritus (Barnet) Ltd.	Welding Services Ltd.	MERITUS
Messrs. Industrial Engineering Ltd.	Welding Services Ltd.	MESSER
Metalarc	Irmesco Ltd.	
Murex Welding Processes Ltd.	Hendron Bros. (Dublin) Ltd.	MUREX
Pressure Control Ltd.	Welding Services Ltd.	
Pollock & Peel Ltd.	Welding Services Ltd.	ASTRA
Saturn Industrial Gases Ltd.	Welding Services Ltd.	SATURN
Suffolk Iron Foundry (1920) Ltd.	Welding Services Ltd.	S.I.F.
Tempil Corporation	Welding Services Ltd.	TEMPILSTIK
Unidare Ltd.	Enquiries direct	FERRODARE
Welding Industries Ltd.	Welding Services Ltd.	
William Stephens & Sons Ltd.	Welding Services Ltd.	

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Eire Agents:
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 (Rere), 136 Botanic Road,
 Glasnevin, Dublin, 9. Tel.:
 373611/2.

Alphabetical list of names and addresses of principals, Irish Offices, associate companies, agents, representatives and distributors.

The names of all companies or individuals listed in this index appear also in the categorised directory in this issue. All Irish addresses are shown in bold type.

A

Adamson, Daniel & Co., Ltd., Dukinfield, Cheshire
 Adamsez Ltd., 72 Victoria Street, London, S.W.1.
 A.E.I. Birlec Ltd., Tyburn Road, Birmingham 24.
A.E.I. Export Ltd., 20 Store St., Dublin 1
 Aerialite Ltd., Castle Works, Stalybridge, Cheshire.
 Aerotaps Ltd., Hudson's Drive, Cotteridge, Birmingham 30.
 Afos Ltd., Hull.
Ahern, F.N.S., 46 Wynberg Park, Stradbrook Rd., Blackrock, Co. Dublin
 Aidas Electric Ltd., Sadia Works, Rowdell Rd., Northolt, Greenford, Middlesex.
 Airnesco Products Ltd., Knight Road, Strood, Rochester.
 Albright & Wilson Ltd., 1 Knightsbridge Gn., London S.W.1.
Albright & Wilson (Ireland) Ltd., Ibox Works, Dun Laoghaire, Co. Dublin
 Allied Ironfounders Ltd., Domestic Appliance Div., Orchard House, 30 Orchard St., London, W.1.
 Alley & MacLellan Ltd., Worcester.
 Andrew Air Conditioning Ltd., Stockport, Cheshire.
 Andrews Bros. Ltd., Regent St., Liverpool 3.
Arklow Pottery Ltd., South Quay, Arklow.
 Armitage Ware Ltd., Armitage, Rugeley, Staffordshire.
Asbestos Cement (Pipes) Ltd., Athy
Asbestos Cement Ltd., 19 Lr. Pembroke St., Dublin
 Ascot Gas Water Heaters Ltd., 225 N. Circular Rd., London N.W.10.
 Associated Metal Works (Glasgow) Ltd., 30 St. Andrew's Square, Glasgow, C.1.
Associated Metal Works (Glasgow) Ltd., 8 Long Lane, Belfast.
Associated Metal Works (Glasgow) Ltd., 168 Pearse St., Dublin.
 Atlantic Distribution Industries (G. A. Walsh Group) 85 Carnwath Rd., London, S.W.6.
 Audco Ltd., Newport, Shropshire.
 Auto-Combustions (London) Ltd., 360 Wandsworth Rd., London, S.W.8.
Auto-Combustions (Ireland) Ltd., 144 Lr. Baggot St., Dublin
 Ayers, R. E., Graystoke, Nashville Rd., Howth.
 Ayton, Henry R., Ltd., 20 Harcourt St., Dublin.

B

Banagher Tiles Ltd., Banagher, Co. Offaly
 Barking Brassware Co., Ltd., 5 River Rd., Barking, Essex.
Barrett, John & Sons, 18 Morrison's Island and 7 South Terrace, Cork.
 Barrhead Engineering Co. Ltd., Irvine Rd., Barrhead, Scotland.
 Barrus, E. P. (Concessionaires) Ltd., 12-16 Brunel Rd., Acton, London, W.3.
 Bastian & Allen Ltd., Ferndale Terrace, Harrow, Middlesex
Baxendale & Co. Ltd., 7 Capel St., Dublin.
 Baxendale, Richard & Sons Ltd., Albert St. Foundry, Chorley 25, Lancs., England.
 Baxi Ltd., Bamber Bridge, Lancs.
 Belco Manufacturing Co. Ltd., Belco House, Shortlands, London, W.6.
Bell, A. & Co. (Eire) Ltd., Rear 136 Botanic Rd., Glasnevin, Dublin, 9.
 Bell Bros. Ltd., Denton, nr. Manchester.
 Bendz Ltd., Lister St., Birmingham, 7.
 Beresford, James & Son Ltd., Kitts Green, Birmingham 33
 Berry Hill (Engineers) Ltd., Stoke-on-Trent.
 Beeston Boiler Co. Ltd., P.O. Box No. 2, Beeston, Nottingham
 Biddle, F. H. Ltd., 16 Upper Grosvenor St., London, W.1.
 Bigwood, J. & Son Ltd., Wednesfield Rd., Wolverhampton

Black & Decker Ltd., 206 Pearse St., Dublin.
 Black & Decker Ltd., Harmondsworth, Middlesex.
Blackrock Engineering Works Ltd., 11 Sweetman's Avenue, Blackrock, Co. Dublin.
 Blake, John Ltd., Atlas St., Clayton-le-Moors, Accrington, Lancs.
 Boby, William Ltd., Rickmansworth, Herts.
 Bolivar Stamping Co. Ltd., Crown Works, Keighly, Yorks.
 Bolton Superheater & Pipeworks Ltd., Manchester.
 Bowser International Ltd., Kent House, Market House, London, W.1.
 Borchart, F. A. Ltd., 506 High Rd., Chiswick, London, W.4
 Brooks & Walker Ltd., 47 Great Eastern St., London.
 Bourner, F. H. (Fittings) Ltd., Manor Royal, Crawley, Sussex.
Boylan, M. A. Ltd., 50a Harcourt St., Dublin.
 Bratt Colbran Ltd., Radiation House, North Circular Rd., London, N.W.10.
 Bray, Geo. & Co. Ltd., Leicester Place, Blackman Lane, Leeds 2.
Briggs, Alfred Ltd., Belfast.
Brightside Engineering Co. (Ireland) Ltd., 31 Upper Mount St., Dublin 2.
 Brightside Heating & Engineering Co., G.P.O. Box No. 118 Sheffield 1.
 British Insulated Callenders Cables Ltd., 21 Bloomsbury St., London, W.C.1.
British Insulated Callenders Cables Ltd., 53 St. William St., Dublin 2
 British Rotoherm Co. Ltd., Merton Abbey, London, S.W.19.
 British Berkefeld Filters Ltd., Town Mills, Cannon Lane, Tonbridge, Kent.
 British Steam Specialties Ltd., Fleet St., Leicester.
British Steam Specialties Ltd., 33 Leeson Park, Dublin.
British Steam Specialties Ltd., 98 Lisburn Rd., Belfast 9
 British Oxygen Co. Ltd., Spencer House, 27 St. James's Place, S.W.1.
British Oxygen Co. Ltd., Prince Regent Rd., Castlereagh, Belfast 5.
Brook Pottery Ltd., Wexford Rd., Arklow.
 Brooks Ventilation Units Ltd., Trafalgar House, Bedford Park, Croydon, Surrey.
Bruty, A. G. Ltd., 38 Dawson St., Dublin.
 Buck & Hickman Ltd., P.O. Box 74, Whitechapel Rd., London, E.1.
 Buderus'sche, Eusenwerke, Wetzlar, Schliessfach, 201/202, Germany.
 Burco Ltd., Rose Grove, Burnley, Lancs.
 Burgess & Co. (Engineers) Ltd., Bracknell, Berks.
 Burn Bros. (London) Ltd., Cray Avenue, St. Mary Cray, Orphington, Kent.

C

Calovent Ltd., 9 Albion St., Leeds 1.
 Calovent Ltd., 37 Blackheath Park, Clontarf, Dublin.
Calumet Trading Co. Ltd., 41 Upper Mount St., Dublin.
 Camron Engineering Co. Ltd., Westgate Works, Chichester, Sussex.
 Cape Insulation & Asbestos Products Ltd., 114/116 Park St., London, W.1.
Carlile & Co. Ltd., Drury St., Dublin.
 Carlyle Air Conditioning and Refg. Ltd., 1 King St., St. James's, London, S.W.1.
Carthorn (1949) Ltd., Commercial Buildings, Dame St., Dublin.
 Casey, P. J., 38 The Rise, Mount Merrion, Dublin.
Celtic Engineering Co. Ltd., 25 Great Strand St., Dublin.
Chadwicks (Dublin) Ltd., Greenhills Rd., Walkinstown, Dublin.

Christ, Theodor, Switzerland.
 Chrysler Airtemp Ltd., P.O. Box 317, 68 Knightsbridge, London, S.W.1.
 Cisterns Ltd., Addington, Ilkley, Yorks.
 Clayton, Reginald Ltd., Branksome Rd., St. Leonard-on-Sea Sussex.
 Clayton, Son & Co. Ltd., Leeds.
 Cleveland Meters Ltd., Redcar, Yorkshire.
 Clyde Fuel Systems Ltd., 80 Queen Elizabeth Avenue, Hillington, Glasgow, S.W.2.
 Cochrane & Co. (Annan) Ltd., Annan, Scotland.
 Cocker, E. J., Stonegate, Granville Rd., Blackrock, Co. Dublin.
 Co Expo Ltd., Toldbogade, Copenhagen, Denmark.
 Cole, W., "Dunblane", 7 Whitebeam Avenue, Clonskeagh, Dublin.
 Colt Ventilation Ltd., 5 Newcourt Avenue, Bray, Co. Wicklow.
 Colt Ventilation Ltd., Surbiton, Surrey.
 Conex-Terna Ltd., Whitehall Rd., Great Bridge, Staffs.
 Concrete Products of Ireland Ltd., Laraghcon, Lucan, Co. Dublin.
 Combination Equipment Ltd., Hampstead, London.
 Continue Flow Heating Products Ltd., Hamilton, Ontario, Canada.
 C. & P. Development Co. (Ireland) Ltd., 88 Greenlea Rd., Terenure, Dublin.
 C. & P. Development Co. (London) Ltd., Wiggle Works, Redhill, Surrey.
 Copperad Ltd., Poyle Rd., Colindale, Buckinghamshire.
 Coppercraft Metal Works, 68 Leeson Close, Lower Leeson St., Dublin 2.
 Cork Growers Trading Co. (1931) Ltd., Vulcan St., Bootle, Lancs.
 Corrie J., Co. Ltd., Bailieborough, Co. Cavan.
 Corrosion Ltd., Warsash Rd., Warsash, Hants.
 Cor-Tex Proofer Ltd., 4a Garville Avenue, Rathgar, Dublin.
 Couper Dists. Ltd., 28 Herbert Park, Ballsbridge, Dublin.
 Cox Engineering Co. Ltd., 14 Park Lane, Sheffield 10.
 Crane Ltd., 15 Red Lion Court, Fleet St., London, E.C.4.
 Craig & Co., W. D., 32 Arthur St., Belfast.
 C.S.A. Industries Ltd., Warwick.
 Curran Ltd., Prior Park, Clonmel, Co. Tipperary.
 Curtis (Onx) Ltd., London Rd., Chatteris, Cambs.

D

Dahl Bros Ltd., 21 Norley St., London, S.E.1.
 Danfoss Ltd., Nordberg, Denmark.
 Danish Stoker & Boiler Co. Ltd., 38 Pearse St., Dublin.
 Dansk Stoker & Varmekedal Kompagni, Copenhagen, Denmark.
 Darlington Insulation Co. Ltd., 38 Great North Rd., Newcastle-on-Tyne, 2.
 Dartmouth Manufacturing Co. Ltd., Trinity Rd., West Bromwich.
 Davidson & Co. Ltd., Sirocco Engineering Works, Belfast 5.

Delmore Engineering Co. Ltd., 51 Gresham Rd., Staines, Middlesex.
 Delta Enfield Rolled Metals Ltd., Brimsdown, Enfield, Middx., England.
 Dimplex Ltd., Millbrook, Southampton, Hants.
 Dockrell, Thos., Sons & Co. Ltd., South Great Georges St., Dublin.
 Donnelly, P. & Co. Ltd., 20 Georges Quay, Dublin.
 Drayton Controls Ltd., Bridge Works, West Drayton, Middlesex.
 Dublin Glass & Paint Co. Ltd., 41 Middle Abbey St., Dublin
 Du Bois Co. Ltd., 15 Britannia St., Kings Cross, London, W.C.1.
 Dunham-Bush Ltd., Farlington, Portsmouth, Hants.
 Dunsley Heating Appliance Co. Ltd., Spring Lane Works, Woodhead Rd., Hollinfrith, nr. Huddersfield, Yorks.
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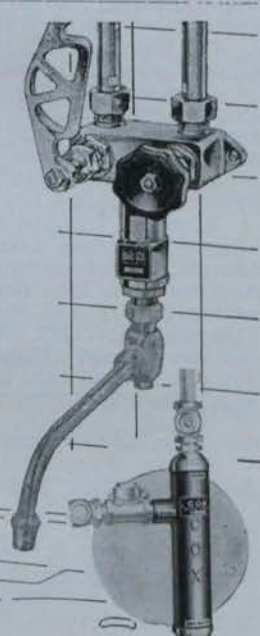
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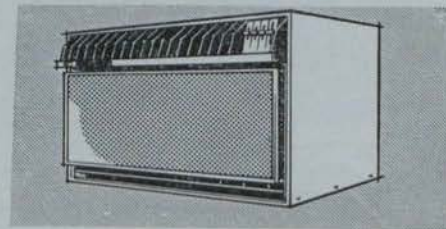
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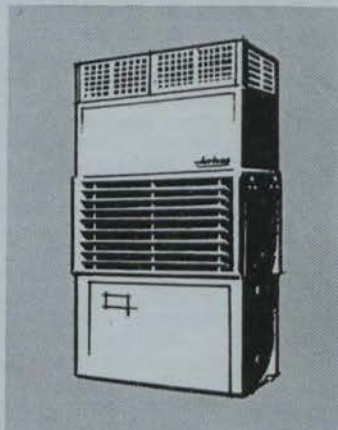
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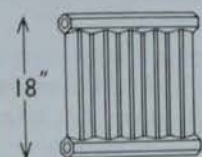
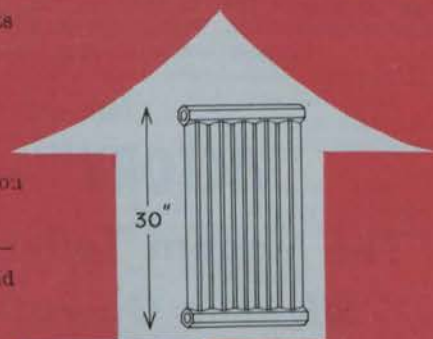
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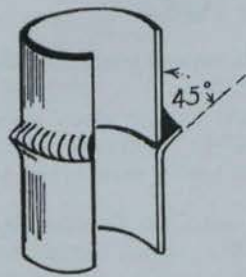
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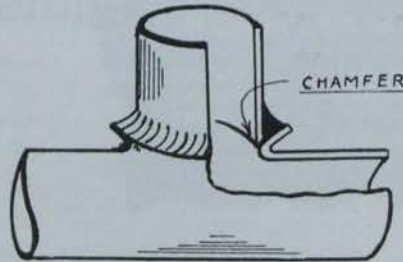
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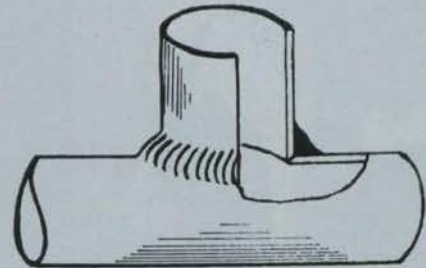
BRONZE WELDED JOINTS ON COPPER TUBE



BELL OR V BUTT JOINT



BELL OR V BRANCH



SADDLE BRANCH

from page six

flow freely. In addition it will protect the joint during welding from any oxidising tendency due to the oxygen in the atmosphere.

Some craftsmen, instead of dipping the rod in the flux, prefer to mix the flux powder into a paste and then paint it on the joint. This is, of course, quite satisfactory, but no matter what method is used, the flux should be applied in minimum quantities.

In previous articles it was mentioned that the neutral flame—equal proportions of oxygen and acetylene—was essential to success in welding. Here we have one of the few exceptions. We must, in this case have a slight excess of oxygen in the flame so that the inner cone will be somewhat sharper but not shorter than normally used.

It is important also to have the correct gas pressures and correct size of nozzle for the job. These will

vary with the type of blowpipe used, but as a guide, the oxygen and acetylene gas pressures should be from 2 to 3 lbs. per sq. in. for light gauge copper tubes up to 4 in. diameter. The nozzle sizes, using the normal classification, should be about a 3 to 5 tip for copper tubes up to 1½ in. diameter. An 1½ in. to 2 in. 5 to 7 tip, on 2 in. to 3 in., a 10 to 13 tip, and on 3 in. to 4 in. a size 13 to 18 tip. It will be appreciated that these figures are approximate and only applicable to equipment in good condition.

Reputable

WHERE the welding gear is not of the best, slightly higher figures must be used, but, of course, any reputable firm will always ensure that its equipment is kept in first-class condition, otherwise good results cannot be expected.

The leftward method of welding (explained fully in the March issue) is used, and provided that the copper is not overheated, the weld metal will

be found to flow freely and “tin” each side of the joint. In fact, when the filler rod begins to flow freely, we know that correct welding temperature has been reached, and conditions are then perfect for a good joint. If, however, the operator allows the copper to reach a higher temperature, control of the metal may be lost, and so a burnt weld with poor bond will be the outcome.

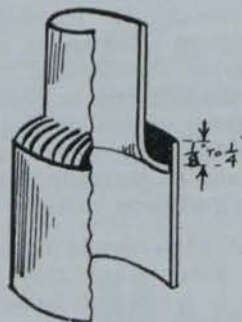
Localised

DUE TO the localised nature of the flame the bronze will not spread unduly when being applied, and so it is possible, in the hands of a skilled man, to produce welds in all positions, including overhead. That this fact is recognised is shown by the widespread increase in the use of bronze welding during the past decade.

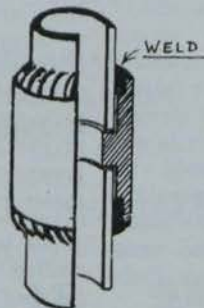
Before concluding, a word of warning must be mentioned in connection with dezincification problems.

This trouble has caused much concern to contractors in recent years,

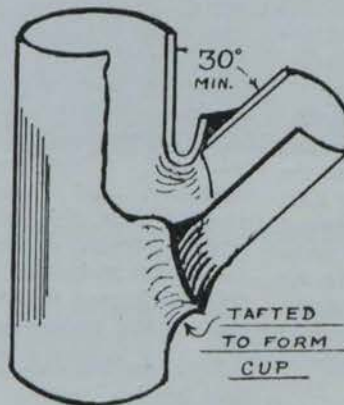
continued page fifty-nine



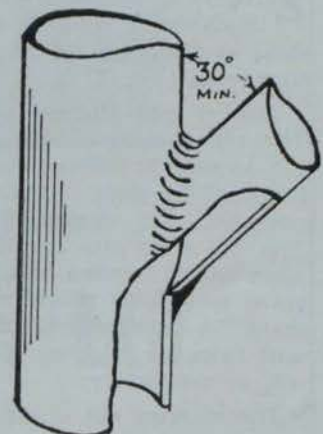
REDUCING JOINT



WELDABLE FITTING



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SADDLE BRANCH



A. L. TOWNSEND
M.R.P., M.R.S.H.

The author, a lecturer at Oxford College of Technology, continues the first part of a four stage course on plumbing.

ZINC ROOFWORK

ZINC is a plumber's metal. Apart from its extensive use in hot dip galvanising as a protective coating for mild steel tubes, cylinders and cisterns, it is regularly used in the form of thin sheets for roof weathering.

Zinc is quite light in the gauges specified for roofing. It is relatively cheap and offers a reasonably good resistance to atmospheric corrosion. A roof laid in accordance with recommended practice may be expected to give a useful and trouble free life of forty years, and, quite probably, much longer.

Examples of zinc roofing 100 years old are not uncommon, a notable one being the spire of Wellington College Chapel in Berkshire, which was weathered with zinc sheets in 1868 and has needed no maintenance since.

Working techniques

ZINC is a "hard" metal, and the methods of working it are the same as those for the other "hard" sheet metals.

Zinc is said to have a "grain." This runs lengthwise down the sheet just as grain in timber runs down the length of the piece. The grain does not affect the normal working of zinc, but great care should be taken when one is forming folds along the grain; such folds should not be too sharp. A rounded fold of radius at least twice the thickness of the metal will be satisfactory.

The marking out of zinc sheets is best done with a blunt centre punch or similar tool. A pencil mark does

not show up well, and a sharp tool such as a scriber will cut into the zinc.

This does not matter on a line which is to be cut later on with the snips, but if the set out line for a fold is cut it could seriously weaken the metal at this point. The sharp scriber is not therefore recommended for the purpose.

Brilliant

COMMERCIAL quality zinc to B.S. 849 is chiefly used for the specially developed system of zinc roofing known as roll cap roofing, a system so brilliantly worked some sixty years ago that it has not been possible to improve upon it.

Ordinary commercial quality zinc sheets work more easily when slightly warm. In cold weather it is therefore an advantage to store the sheets in a warm place. In really severe weather a sheet may be warmed by passing over it a few times a blow-lamp burning with a not too powerful flame. A high temperature is not necessary, and indeed should be avoided since this can permanently upset the crystal structure of the metal and make it brittle. The zinc need only be heated to about or a little above hand temperature.

Some roofing details in this quality zinc involve cutting and soldering. Soldering in any form is not considered to be good practice in roof-work and should be avoided if it is

possible to do so by using a different design or fixing method.

Quite easy

SOLDERING on sheet zinc, where this is unavoidable, is quite easy. Care must be taken to see that the soldering iron is not too hot because of the relatively low melting point of the zinc. Solder should be of the tin rich tinman's variety, with a proportion of 50 per cent., or better still, 60 per cent. of tin to lead. It should be quite free of antimony, since this would tend to produce brittle joints. The flux generally used for this work is a solution of zinc chloride commonly known as "killed spirits." The plumber often makes it by dissolving zinc scraps in hydrochloric acid, taking care not to breathe in the fumes which are given off during the process.

Zinc ammonium chloride solution is an improvement on killed spirits, and is made simply by adding sal-ammoniac to the killed spirits. Many proprietary brands of flux obtainable at the ironmongers are of a similar composition, and it is really much easier to buy it than to make it.

All soldered joints should be well swilled with water when they are finished so as to remove all traces of the flux, since this is corrosive.

Copper bit soldering will be dealt with in a later issue.

continued opposite

from previous page

Soft temper zinc

SPECIAL Soft Temper Zinc is now available. It is chiefly used for covering roofs by the standing seam method, described earlier in this series, for copper and aluminium.

This material can also be used on simple seamed details. Ridge pieces, chimney back gutters and chimney front aprons are easily and quickly made in it by the method again described earlier. Simple ridge pieces can also be made in soft temper zinc.

Here are some points to be noted when one is making these details in this material:—

1. Allow $\frac{1}{4}$ " seams as with copper.
2. The second turn of seam will be found to move much more easily if it is lightly warmed by having a blowlamp flame, or a gas jet, passed over it once or twice.
- 3 Zinc is much stiffer than copper or

aluminium. In other words, it has more "spring back." Once the material has been handled for a while and the extent of this springiness gauged, due allowance can be made for it.

4. The zinc does not work-harden to an appreciable extent, and there is no need for annealing.

ZINC SIZES, GAUGES AND TEMPER

COMMERCIAL quality zinc and the special soft temper zinc are both supplied in standards sheets 7' or 8' long by 3' wide.

Zinc gauge is a measurement of thickness peculiar to zinc. As the zinc gauge number increases, so does the thickness of sheet. S.W.G., the sheet measurement used for other hard metal, works in the opposite direction. Zinc manufactured to British Standard bears its zinc gauge number, and below this appears its nearest S.W.G. size. This table is helpful for comparing various thicknesses.

The recommended Zinc Gauges for roofwork are as below.

Zinc Gauge number.	Nearest S.W.G.	Weight of Zinc/foot super. approx: ounces.	Thickness in decimal inches.
12	23	15	0.025
13	22	16.75	0.028
14	21	18.5	0.031

Soakers: 12.Z.G.

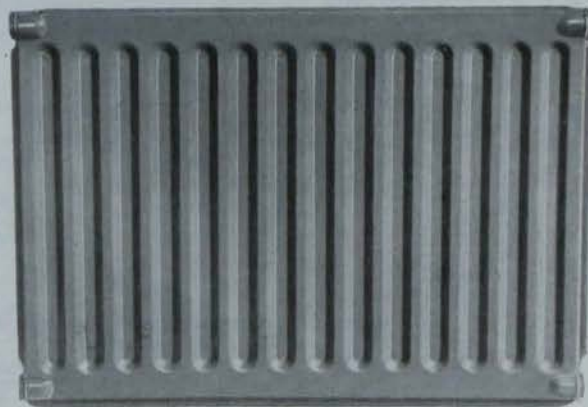
All other work in 14.Z.G.

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The Board has also issued repeated warnings to farmers and other operators of special equipment to exercise care in the use of high machinery near E.S.B. lines.

The ignoring of such regulations and warnings has caused a number of accidents, and in the last five years six of these accidents were fatal.

When work becomes necessary adjacent to E.S.B. lines, local E.S.B. staff will, in the interests of public safety, make arrangements so that the work can be done in safety.

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● The self-priming diesel-driven centrifugal pump pictured here is from the Sealed Motor Construction Co. Ltd. range.

Model SP300 has 3" BSP branches (18,000 g.p.h.) and has a max. head of 80 feet. The larger model SP400 has 4" BSP branches (40,000 g.p.h.) with the same max. head.

Distributed by British Steam Specialties Ltd., Leeson Park, Dublin.

from page fifty-five

Bronze welding copper tubes

A QUESTION often asked in the trade is about the removal of flux residue from the finished weld—is the flux harmful if not removed?, and what is the easiest way to get it off the joint if it should be necessary?

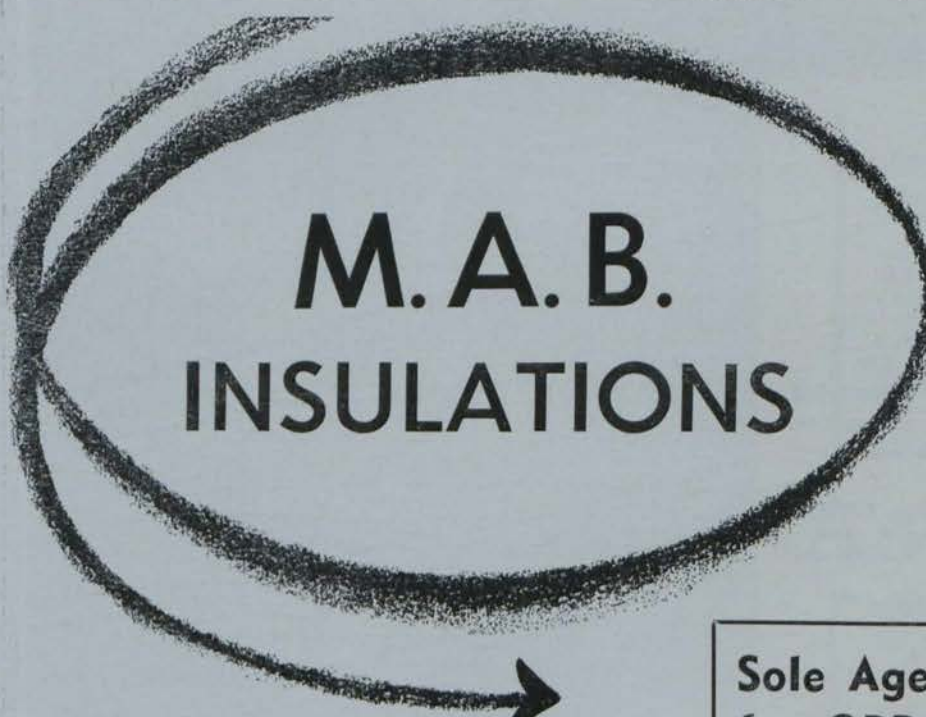
As to the first part of the question, the flux is not harmful if left on, but may be unsightly, and so should be removed if at all possible.

The usual and easiest way to remove it is by pouring cold water over the hot metal immediately welding has finished. This will cause sudden contraction and chipping of the flux, which will then flake off. There are many brands of proprietary fluxes on the market, each with spec-

ially blended ingredients to assist fusion.

BLOWPIPE FLAME

AS THE normal bronze filler rod is a brass of the 60% copper and 40% zinc type and in addition may contain silicon, nickel, tin, manganese, etc., to improve the quality, it is important that the flame be adjusted and has resulted in failure of brass cocks and valves, etc., when in contact with certain types of waters. As our bronze filler contains zinc, bronze welded joints are best avoided on copper and other tubes used for carrying hot or cold sea water, or for use in districts where dezincification is a problem.



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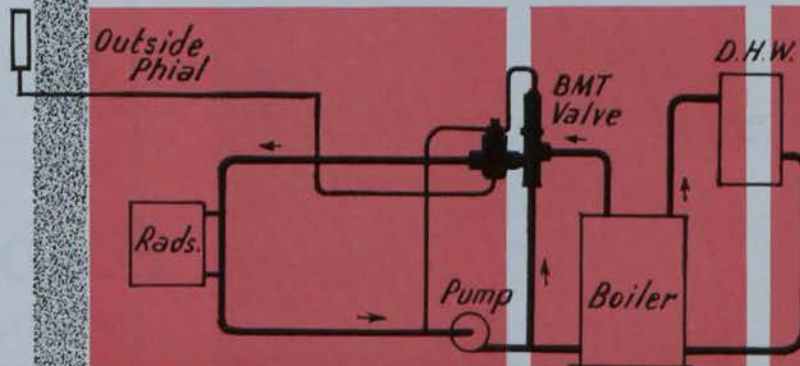
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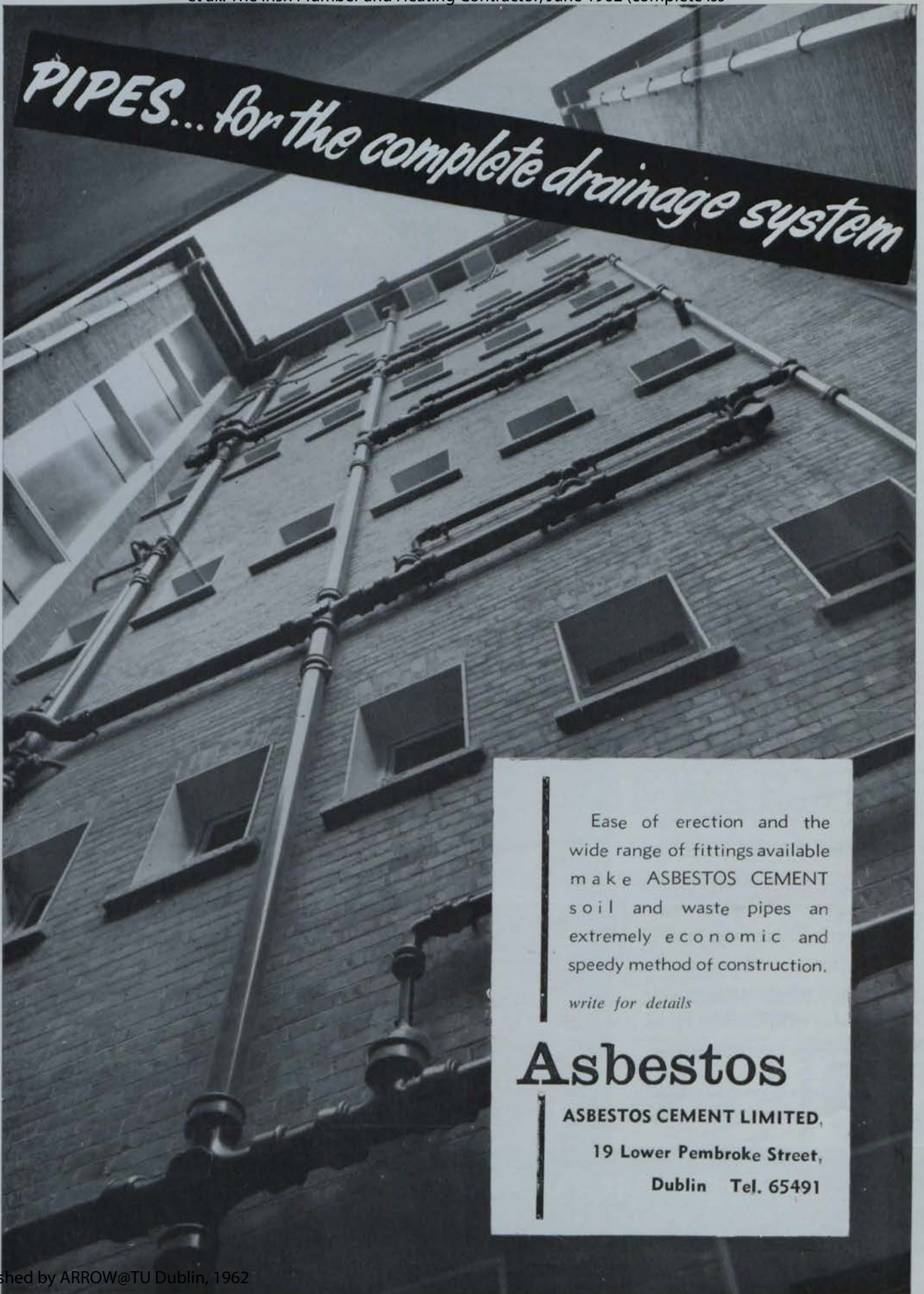
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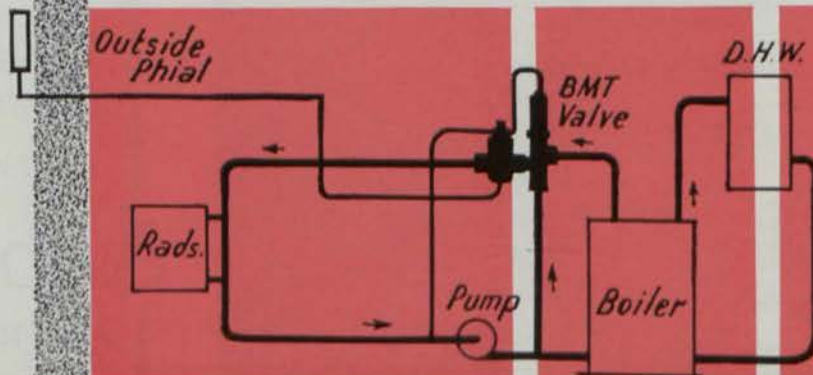
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