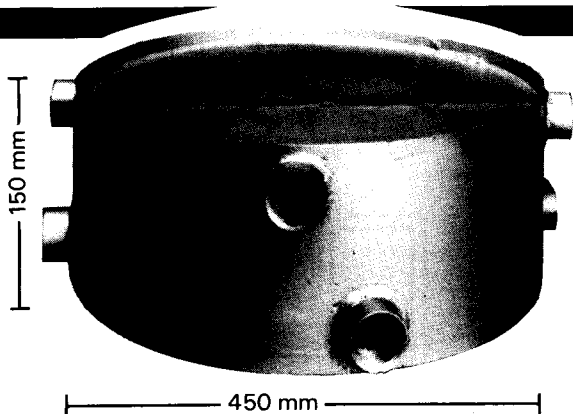


DUNSLEY BAKER LINK-UP

**FOR MAXIMUM EFFICIENCY,
FLEXIBILITY AND ECONOMY**

**THE TROUBLE-FREE METHOD OF
INTERLINKING TWO OR MORE BOILERS**



THE "C" TYPE NEUTRALIZER

The "C" Type Neutralizer is designed for installing below the hot water cylinder.

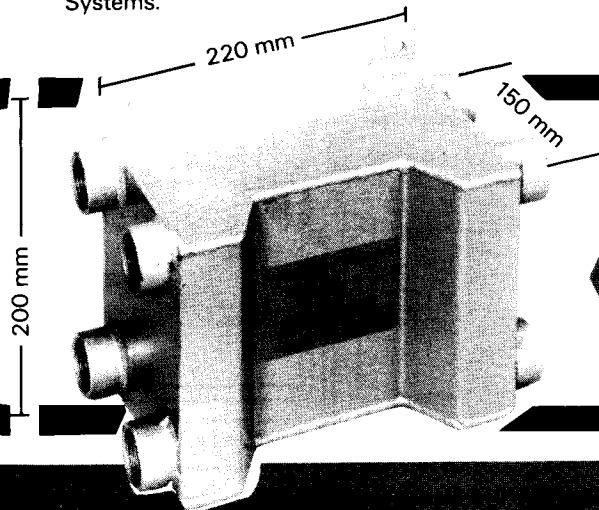
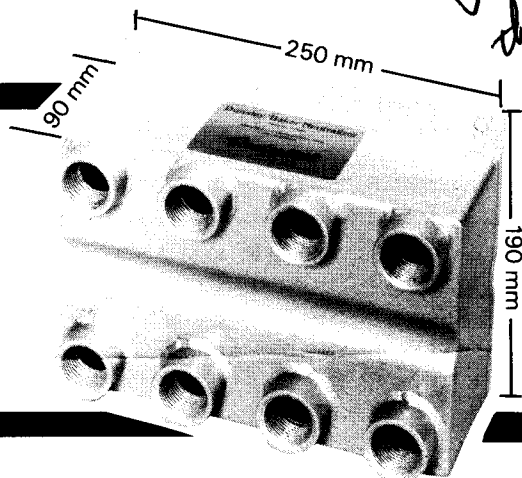
We can supply this model with additional connections and capacity. Use this model if the system has three or more boilers, or if the pipework to or from the Neutralizer is more than 35 mm diameter.

*John!
this is the
best
thing
since
sliced
bread!*

THE "F" TYPE NEUTRALIZER

The size of the "F" Type Neutralizer enables it to be easily installed beside the hot water cylinder, or built into the side of a Chimney Breast.

This model can be used for the majority of Link-Up Systems.



THE "R" TYPE NEUTRALIZER

The "R" Type Neutralizer has been designed for installing on a wall just below the ground floor ceiling. The shape facilitates the fitting of neat pipework when the boilers are adjacent or back to back.

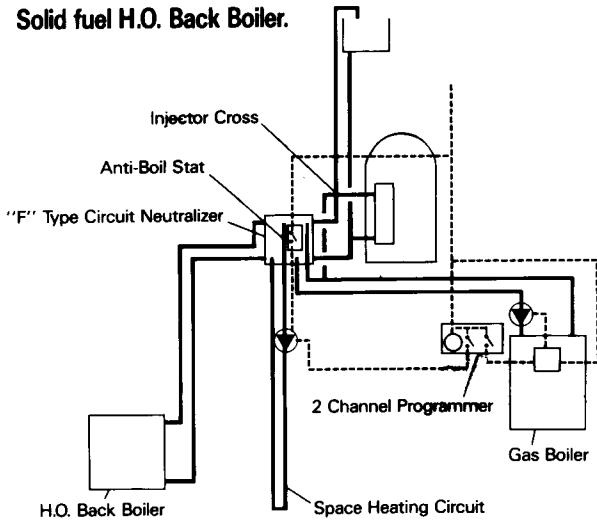
DUNSLEY-BAKER NEUTRALIZER SYSTEM

The system layouts illustrated are a selection from our extensive range of Link · Up Systems.

These drawings must only be used in conjunction with the installation instructions supplied with the unit.

Layout 1.

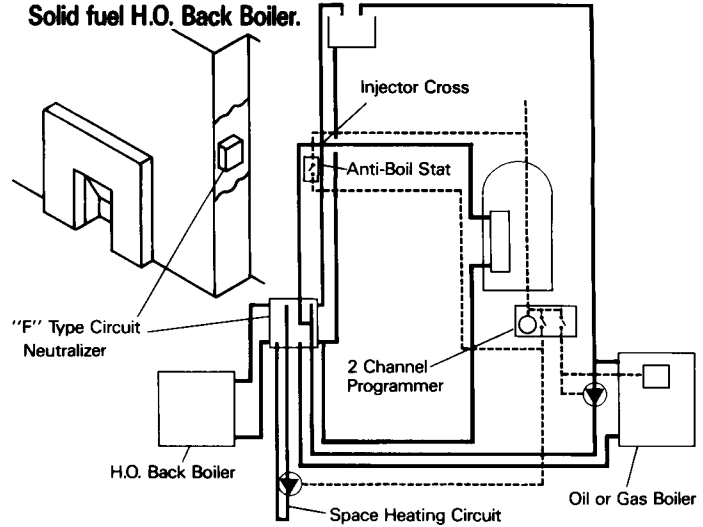
Low water content Gas Boiler.
Solid fuel H.O. Back Boiler.



Layout 2.

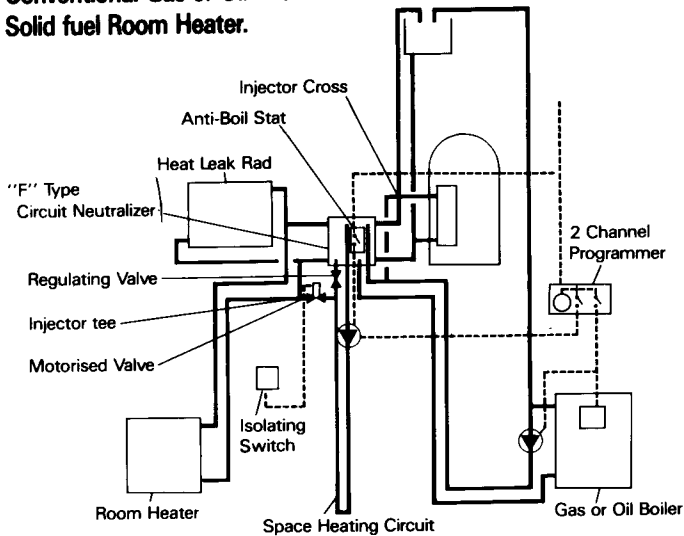
Conventional Gas or Oil Fired Boiler.
Solid fuel H.O. Back Boiler.

Single Storey



Layout 3.

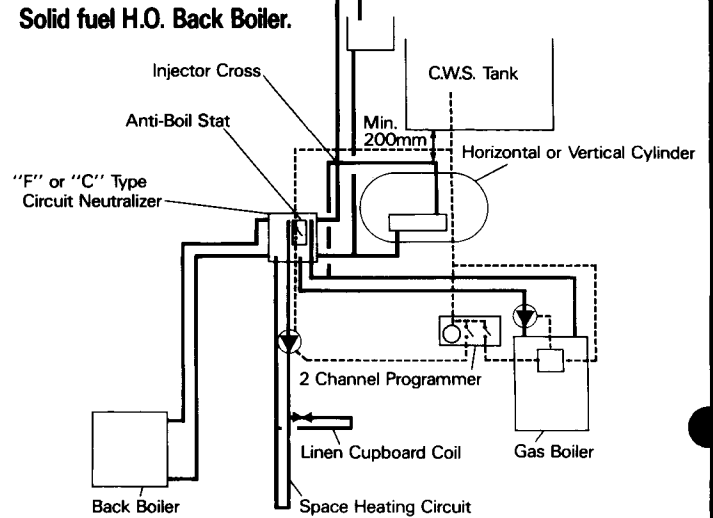
Conventional Gas or Oil Fired Boiler.
Solid fuel Room Heater.



Layout 4.

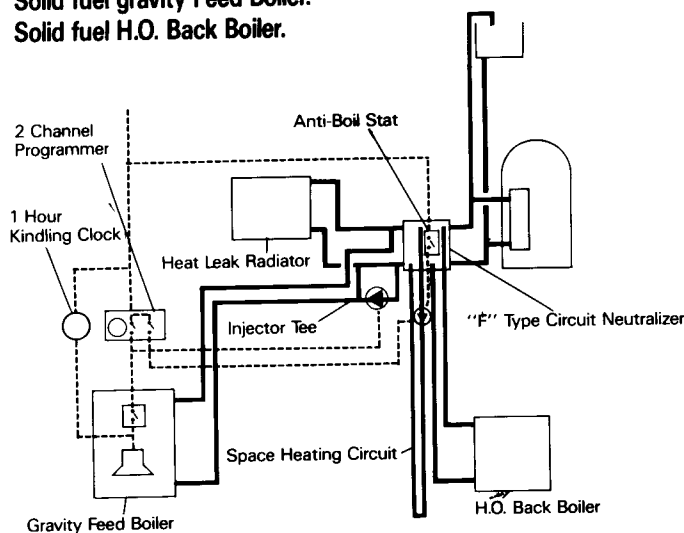
Low water content Gas Boiler.
Solid fuel H.O. Back Boiler.

Single Storey



Layout 5.

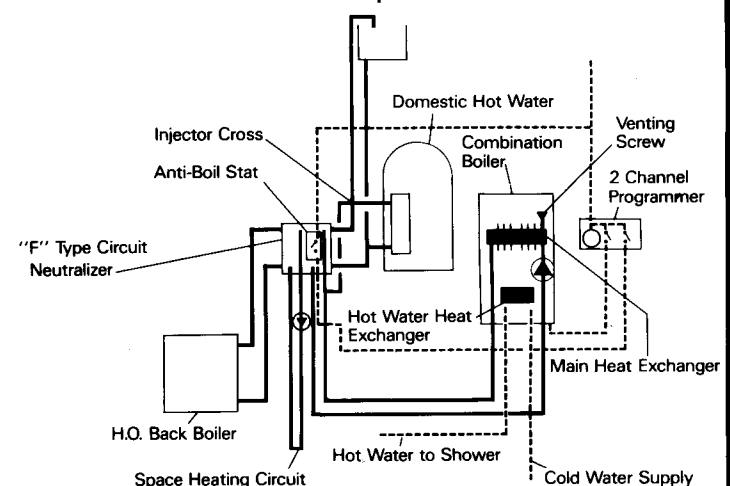
Solid fuel gravity Feed Boiler.
Solid fuel H.O. Back Boiler.



Layout 6. Combination Boiler.

Solid fuel H.O. Back Boiler.
Mains fed & low pressure hot water.

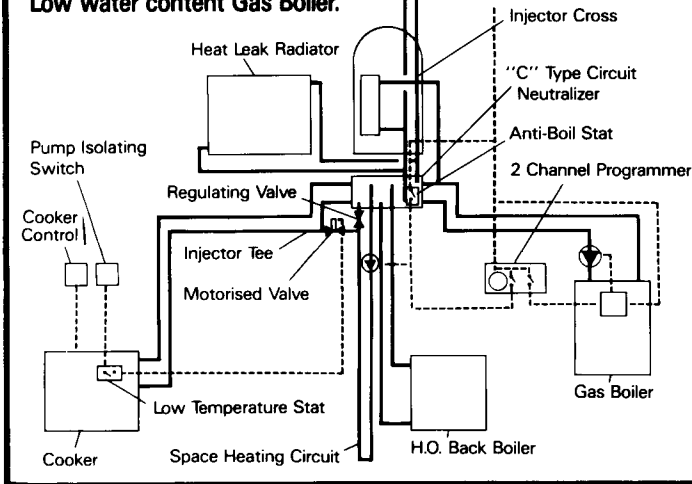
Single Storey



LAYOUT OPTIONS FOR LINK-UP SYSTEMS

Layout 7.

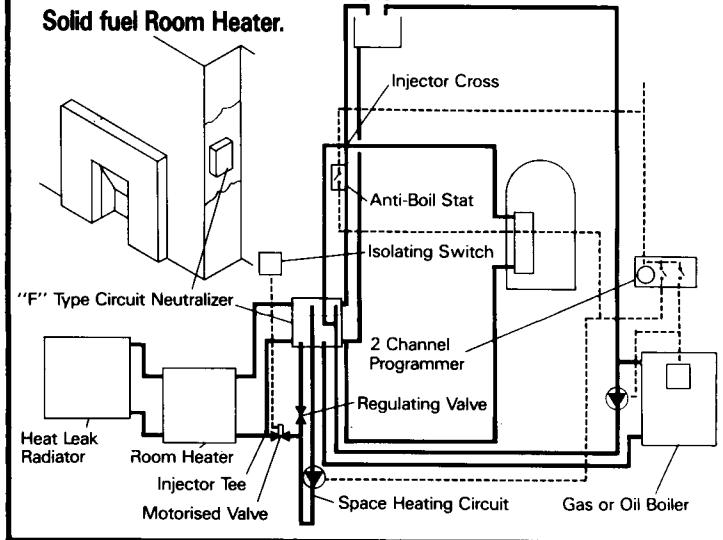
**Solid fuel, Oil or Gas Cooker.
Solid fuel H.O. Back Boiler.
Low water content Gas Boiler.**



Layout 8.

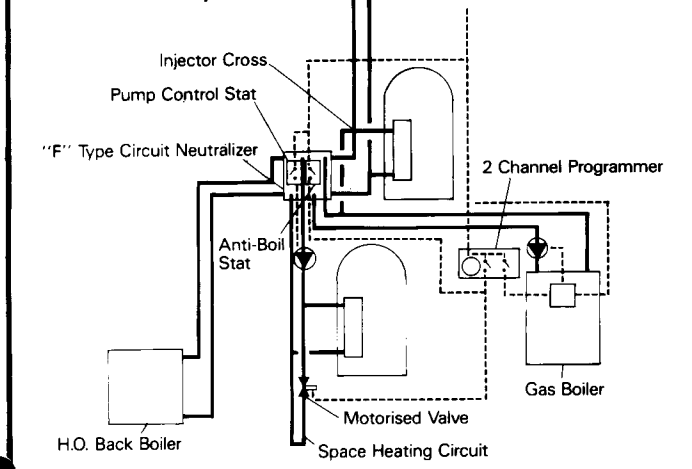
**Conventional Gas or Oil fired Boiler.
Solid fuel Room Heater.**

Single Storey



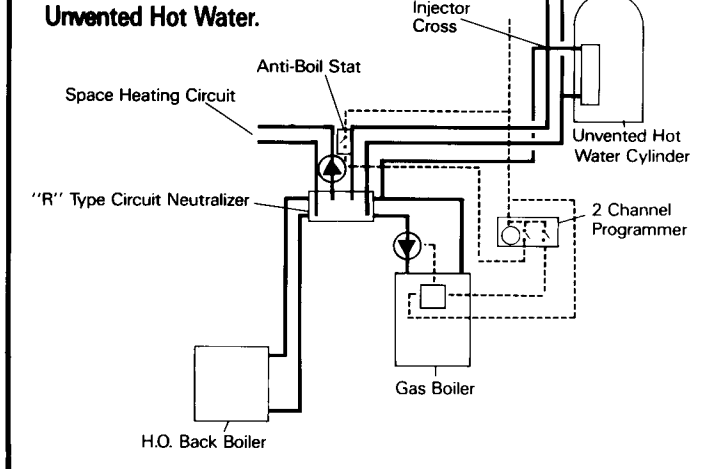
Layout 9.

**Low water content Gas Boiler.
Solid fuel H.O. Back Boiler.
Two hot water cylinders.**



Layout 10.

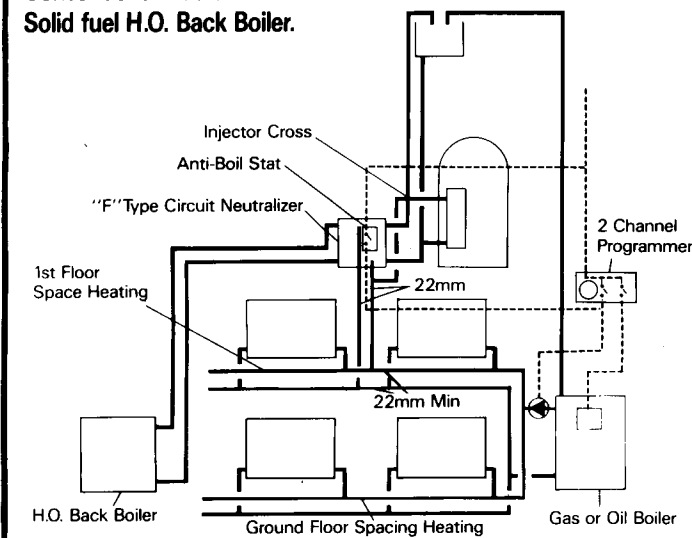
**Low water content Gas Boiler.
Solid fuel H.O. Back Boiler.
Boilers adjacent or back to back.
Unvented Hot Water.**



Layout 11 and 12 have been designed to enable a solid fuel boiler to be linked to the larger heating system, when the solid fuel boiler would not be expected to provide heating and hot water on its own. Although it can be used without the main boiler for hot water only, if used on its own for heating and hot water, the main boiler will become a heat emitter.

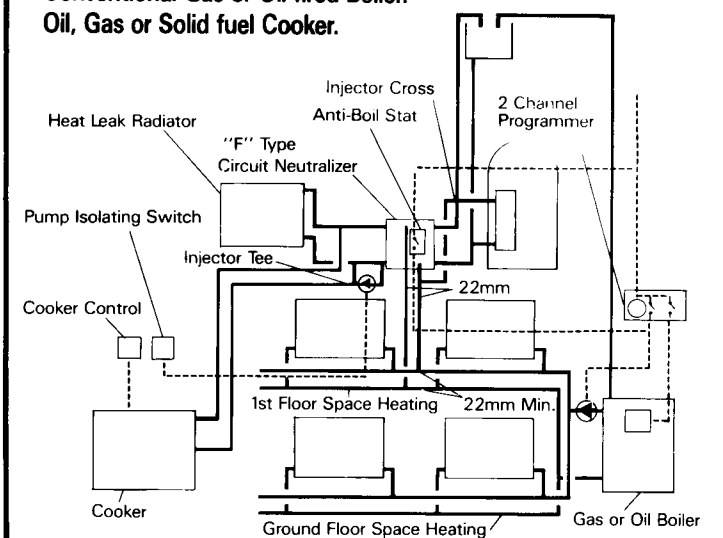
Layout 11.

**Conventional Gas or Oil fired Boiler.
Solid fuel H.O. Back Boiler.**



Layout 12.

**Conventional Gas or Oil fired Boiler.
Oil, Gas or Solid fuel Cooker.**



For further information on system design, please contact us on Tel: (0484) 682635.

DUNSLEY/BAKER NEUTRALIZER SYSTEM

Gives a trouble free method of interlinking two or more boilers to give economy and flexibility

HISTORICAL NOTE

For a period during the late sixties early seventies there was a tendency to do away with the open fire by building up the opening and depending on one boiler source for heating the dwelling.

In recent years the move has been to re-open the fireplace as an alternative source of heat and to give a focal point for the evening relaxation plus the advantage of good ventilation.

With this has come the realisation that the open fire with high output boiler or a cooker with high output boiler would be very economical and versatile in use if it could be linked into the central heating system to supply, or assist to supply, the entire demand for heating and domestic hot water.

TECHNICAL DIFFICULTIES

In principle the requirement to link two or more boilers into one heating system is relatively simple to arrange. In practice there are physical difficulties, possible dangers, and in many cases high financial cost to the householder.

The difficulties lie in linking the boilers, so that one boiler when in operation does not supply the second boiler with hot water when it is not in operation. Attempts to link boilers in domestic situations have resulted in solutions which are either dangerous, unnecessarily complex, expensive or a combination of all three. Also in numerous systems an unacceptable degree of domestic upset is encountered during installation.

DUNSLEY BAKER NEUTRALIZER

The use of a Dunsley Baker Neutralizer offers a neat solution to all of the problems highlighted above. The description 'Circuit Neutralizer' (also referred to as a neutralizing vessel or chamber) is intended to convey the fact that the neutralizer fixes the neutral point location within the system. The cold feed and open vent are both connected to the system at the neutralizing chamber and provided that both boilers are only connected through this point then pumped or gravity circuits connected to the chamber can have no hydraulic interaction.

This means in effect that the pumped circuit from, say a gas or oil fired boiler will not induce flow through a solid fuel boiler via its gravity circuit. The solid fuel boiler will, however, feed hot water into the system, thus achieving the desired objective.

It must also be pointed out that whilst two boilers connected as above is the most common mode of system operation the Dunsley Baker Neutralizer System lends itself easily to cope with more than two boilers on the one system and with a multiplicity of circuits making possible effective joining for increased controllability.

NEUTRALIZER LOCATION

Two comments with reference to location:

1. In converting an existing system to a Dunsley Baker Neutralizer system most of the work takes place within the hot cupboard area, thus avoiding general disruption within the premises.
2. Where the solid fuel appliances are on the same floor level as the neutralizing vessel elevation of the neutralizer and hot water cylinder would be necessary in order to achieve (A) venting and (B) gravity circulation.

DUNSLEY BAKER NEUTRALIZER SYSTEM

The concept of enlarging the 'neutral point' to the volume bound physically by the welded construction of the neutralizing chamber is the distinctive feature of the system and any configuration of pipework and components employing this concept is referred to as a Dunsley Baker Neutralizer System, regardless of the number of boilers, pumps, circuits, etc.

CONTINUED DEVELOPMENT

The sketches show some of the many arrangements possible in different circumstances where a Dunsley Baker Neutralizer System will facilitate the interlinking of domestic boilers and suggestions are also indicated of suitable control systems.

We are continuing to produce updated information on system design and, therefore, welcome requests for advice on situations which deviate from those described in this brochure.

The Dunsley Baker Neutralizer System is the invention of John Baker. U.K. Patent no. 2113364, Irish Patent no. 50285 and is manufactured and sold under licence in England, Scotland, Wales, Ireland and Northern Ireland, Isle of Man and Channel Isles by Dunsley Heat Ltd., Fearnought, Holmfirth, Huddersfield, England, HD7 2TU.
Tel: 0484 682635 4 lines.

**The Best of Both Worlds
Link up with**

DUNSLEY/BAKER NEUTRALIZER SYSTEM

DunsleyHeat

Dunsleyheat Ltd, Fearnought, Huddersfield Road, Holmfirth, Huddersfield, West Yorkshire HD7 2TU. Tel: (0484) 682635 Fax: (0484) 688428

NEW

DUNSLEY BAKER LINK·UP

NEW

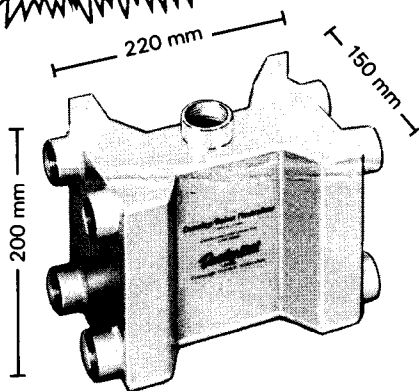
UPGRADE SUPPLEMENT

To meet modern day requirements we have designed a new and improved method of connecting primary pipework to the hot water cylinder and circuit neutralizer.

This enables us to present a system in which, amongst other advantages, the temperature of the domestic hot water can be thermostatically controlled.

NEW

Nine way "R" type neutralizer



- Space heating and hot water can be thermostatically controlled.
- Improved flow through the cylinder.
- Improved air separation.
- No injector cross.
- The anti-boil stat will switch on the space heating pump and open the motorised valve.

Please note:- Layouts 11 and 12 are not suitable for this arrangement.

mains isolator

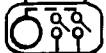


anti-boil stat

F&R from solid fuel boiler

boiler

two channel programmer



room thermostat

space heating circuit

supply to gas or oil fired boiler and pump

a.a.v.

indirect cylinder

Cylinder thermostat

normally open motorised valve

Pumped F&R from gas or oil fired boiler

nine way "R" type neutralizer



269204825
5N8 3J8.

DunsleyHeat

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