



FERRIER PUMPS LIMITED

EDINBURGH • GLASGOW • ABERDEEN



## COLD WATER BOOSTER SETS & PRESSURISATION SETS

- **Ferrier Pumps Limited** have been supplying booster sets for many years in various sizes, large & small, **standard and bespoke** manufacture. Flow rates have ranged from 0.2 l/s up to 166 l/s
- Our range spans from pressure-switch operated equipment up to the impressive full variable speed units
- We can design & build any type of booster set to fit in with your plant-room - please call to discuss your requirements
- Potable water versions available with all components **WRAS approved**
- Pipework to suit replacement units or system requirements

## VARIABLE SPEED BOOSTER SET

### *FP Model Range*

- Single or multiple pump units
- Standard or Specialized builds available
- 0.5 l/s - 200 l/s flow rates
- Variable speed pumps automatically adjust to the systems varying flow demands
- Energy consumption savings over fixed speed units
- The FP range offers the industry-leading "Hydrovar" units for control of pumps



## VARIABLE SPEED BOOSTER SET

### *VS Model Range*

- Multiple pump units - up to 4 pumps in total
- Sizes range from 1.1 kW to 45 kW
- Industry leading pump models fitted
- Variable speed pumps automatically adjust to the systems varying flow demands
- Incorporating either Danfoss or ABB invertors



- Stainless steel pipe-work
- 60 litre Hydraulic Accumulator
- 0.5 l/s - 200 l/s flow rates
- Individual transducers for each pump
- Valves on manifolds to isolate system
- Industry-leading pumps on all models



## PRESSURE SWITCH BOOSTER SET

### *MF Model Range*

- Single pump or multiples up to 4 pumps
- Cost saving over inverter driven units
- Can incorporate pressure reducing valve if required
- Maintenance friendly
- Incorporates a full size Hydraulic Accumulator and fully featured control panel



## VARIABLE SPEED UNIT

### *Single TKS Model Range*

- Smooth pressure control
- Constant pressure to taps
- Speed is regulated to suit demand
- Single phase supply
- Suitable for domestic or commercial

## SINGLE PUMP BOOSTER SET

### *VMP Model Range*

- Pressure switch operated
- Simple design
- Valves supplied on suction
- 24 or 60 litre vessel
- Single phase supply



## FLUID CONTROL BOOSTER SET

### *FC Model Range*

- Ideal for on/off applications
- Low water cut-out function
- Automatic control
- Inlet and outlet valves
- Single phase
- Typical application - washing machine supply



# COMPLETE PACKAGE BOOSTER SET

## *BT Model Range*

- Units built to suit access and system
- WRAS pre-insulated storage tanks
- Special kit-form build option for jobs with restricted site access
- Available as pressure switch operated or inverter drive



- Tank sizes up to 2900 litres can be mounted above the pumps
- Unlimited tank sizes at side or rear of pumps
- Plant-room space saving units
- Solid box section construction
- Incorporating all standard features of either the FP, VS or MF ranges



VERSION 1.2 - F

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EDINBURGH - GLASGOW - ABERDEEN

# EP SINGLE & EP TWIN PUMP – PRESSURISATION UNITS



Dimensions (mm): 460w x 415d x 800h Weight (kg.): 36

-  Strong 1.5mm mild steel construction
-  Fully powder coated RAL 5010 and RAL 7016
-  Can be either floor standing or wall hung
-  LCD Display
-  **Single & Twin Pump Models Available**
-  Low water cut out to prevent dry running

## INTRODUCTION

- The EPT is a twin pump and the EPS a single pump, single system, electronically controlled pressurisation unit
- Designed for use on heating or chilled water systems up to and including 2.8 Bar cold fill pressures.
- All mounted in a fully enclosed, mild steel powder coated cabinet.
- The unit is designed for ease of installation with all mechanical connections being terminated outside the main shell.

## SYSTEM CONNECTIONS

- 1/2" BSPM connection to float valve
- 1/2" BSPF connection to system
- 22mm compression overflow connection

## ELECTRICAL

- Motor: Totally enclosed fan cooled
- Electrical supply: 240 a.c. single phase
- F.L.C.: 2.5 amps / 370w continuously rated
- Motor insulation: IP44 Class F

## PIPEWORK

Suction & discharge internal pipework in copper/ plastic capillary tubing, complete with system termination in a 1/2" BSPF.

## BREAK TANK

1 No. 4 Gallon polypropylene tank with 1/2" HP float valve and a 22mm compression overflow connection.

## PUMP

Constructed of a cast iron body with stainless trim, stainless steel shaft with a brass impellor. The pump incorporates a self-adjusting mechanical seal.

## VESSELS

A Full range of replaceable bag/diaphragm expansion vessels is available to suit all systems. Range: from 3 to 1000 ltr. (rated at 99°C & 10bar).

## CONTROLS

All within the integral enclosure, the controls feature :-

### LED Indication for:

- System Pressure indication
- HP — high pressure
- LP — low pressure
- Transducer fail
- Service notification
- Fuse/pump fail
- Low water

### Wiring Terminals for:

- Boiler/Chiller interlock
- Common fault

### Panel Buttons for:

- Pump Test
- Alarm / Mute (optional extra)

### PCB Control for:

- Anti-seize pulse
- Low Water protection
- System fill mode



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# EPS & EPT - ENHANCED PRESSURISATION UNIT



-  **Single & Twin Pump Models Available**
-  Strong 1.5mm mild steel construction
-  Fully powder coated RAL 5010 and RAL 7016
-  Can be either floor standing or wall hung
-  20 x 2 LCD Display
-  Full function and condition indication
-  Low water cut out to prevent dry running
-  Pump anti-seize pulse feature

## INTRODUCTION

- The EPS is a single and the EPT is a twin pump electronically controlled ENHANCED pressurisation unit
- Designed for use on heating or chilled water systems up to and including 2.8 Bar cold fill pressures.
- All mounted in a fully enclosed, mild steel powder coated cabinet.
- The unit is designed for ease of installation with all mechanical connections being terminated outside the main shell.

## ELECTRICAL

- Motor: Totally enclosed fan cooled
- Electrical supply: 240 a.c. single phase
- F.L.C.: 2.5 amps/370w continuously rated
- Motor insulation: IP44 Class F

## VESSELS

A Full range of replaceable bag/diaphragm expansion vessels are available to suit all systems.  
Range: from 3 to 1000 ltr. (rated at 99°C & 10bar)

## PUMP

Constructed of a cast iron body with stainless trim, stainless steel shaft with a brass impellor. The pump incorporates a self-adjusting mechanical seal.

## PIPEWORK

Suction & discharge internal pipe-work in copper/plastic capillary tubing, complete with system termination in a 1/2" BSPF.

## SYSTEM CONNECTIONS

- 1/2" BSPM connection to float valve
- 1/2" BSPF connection to system
- 22mm compression overflow connection

## BREAK TANK

1 No. 4 Gallon polypropylene tank with 1/2" HP float valve and a 22mm compression overflow connection.

## DIMENSIONS / WEIGHT

Dimensions (mm): 460w x 415d x 800h  
Weight: 36 KG.



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## EPS-ENH CONTROLS

All within the integral enclosure, the controls feature :-

- Door interlocked isolator
- Digital display of all conditions

### Additional lamp display for:

- Alarm activated
- Low water
- Pump auto operation
- Pump off
- Pump hand operation
- Pump run
- Pump trip

### PCB control features including:

- Anti-seize pulse
- Low Water protection
- System fill mode
- Audible sounder for alarms
- Alarm mute

### Main V.F. contacts for:

- Remote stop
- Boiler / Chiller interlock
- Common fault

### Additional V.F. contacts for:

- Pump run
- Pump trip
- Low water level
- High water level
- Low pressure
- High pressure
- Frequency of starts
- Flood alarm
- Transducer failure



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# CAT 5 BOOSTER WITH BREAK TANK



-  **Designed specifically for category 5 backflow protection**
-  **Designed to provide cold boosted water**
-  **Auto start / stop**
-  **Built in low level protection**
-  **Quick & easy installation**
-  **Compact design**
-  **Single Phase**

## DESCRIPTION

Single pump booster set designed to supply from a Cat 5 water storage tank and to provide between 0.3 to 1.6 l/s @ pressures of 1 - 5.5 BAR

## APPLICATIONS

- All types of applications that have a start / stop demand.
- The supply of Cat 5 cold water to:-
  - Hygienic Rooms
  - Laboratories
  - Veterinary Surgeries
  - Garden irrigation
  - Bib taps
  - Bin stores
  - Abattoirs
  - Mortuaries
  - Multi-storey window wash

## PUMP

- Type: Horizontal multistage
- All parts in contact with fluid are stainless steel.
- Single phase 230V 50 Hz motors up to and including 1.1 Kw.

## BREAK TANK

- 68 litre water regulation compliant
- C/w raised ball valve chamber with weir overflow and AB air gap
- To CAT 5 Regulations

## EXCLUSIONS

Applications that have cistern valves (i.e. toilets) or expansion vessels fitted.

## OPERATION

The Fluid Controller (F.C.) is designed to start the pump when the system pressure falls, upon start up the unit continues to pump until the demand stops at which point the pump is stopped. Should there be a lack of water the internal float switch will disable the pump, if this happens check for adequate water supply to the pump, press and hold the blue button until the system has re-pressurised.

The F.C. has three indicator lamps:

Green: Mains power on, pump ready to run

Yellow: Pump Run

Red: Fault lamp press reset

The Fluid Control allows automatic operation of the pump without the use of a separate pressure vessel.

## Technical Information

	Model No.	Suction	Discharge	Kw	Amps	Closed Valve Pressure	Dimensions (w,d,h)	Voltage	Dry Weight (Kg)
<b>A</b>	CAT5-FC1-202-BT	1"	1"	0.55	4.0	2.2 Bar	650 x 575 x 845mm	240 V	30
<b>B</b>	CAT5-FC2-203-BT	1"	1"	0.55	4.0	3.2 Bar	650 x 575 x 845mm	240 V	30
<b>C</b>	CAT5-FC2-204-BT	1"	1"	0.55	4.0	4.5 Bar	650 x 575 x 845mm	240 V	31
<b>D</b>	CAT5-FC2-205-BT	1"	1"	0.75	5.1	5.7 Bar	650 x 575 x 845mm	240 V	32
<b>E</b>	CAT5-FC2-206-BT	1"	1"	1.	7.2	6.9 Bar	700 x 575 x 845mm	240 V	35
<b>F</b>	CAT5-FC1-402-BT	1 1/4"	1"	0.55	4	2.2 Bar	650 x 575 x 845mm	240 V	30
<b>G</b>	CAT5-FC2-403-BT	1 1/4"	1"	0.55	4	3.4 Bar	650 x 575 x 845mm	240 V	30
<b>H</b>	CAT5-FC2-404-BT	1 1/4"	1"	0.75	5.1	4.5 Bar	675 x 575 x 845mm	240 V	33
<b>I</b>	CAT5-FC2-405-BT	1 1/4"	1"	1.1	7.2	5.8 Bar	675 x 575 x 845mm	240 V	36

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# MICRO-S – PRESSURISATION UNIT



-  Compact wall-hung design
-  Possibly the smallest full sized peripheral pump operated pressurisation unit in the UK
-  Non-dependant on mains pressure to satisfy system pressure requirements
-  Option of 2<sup>nd</sup> float valve where water mains pressure is low
-  All mechanical connections exit the base. Electrical connections on either side.
-  Strong 1.5mm mild steel construction fully powder coated
-  Pump anti seize pulse feature
-  Economically priced

## INTRODUCTION

- The Micro-S is a compact single pump, single system, electronically controlled pressurisation unit.
- Designed for use on heating or chilled water systems up to and including 2.8 Bar cold fill pressures.
- All mounted in a fully enclosed, mild steel powder coated cabinet.
- The unit is designed for ease of installation with all mechanical connections being terminated on the underside and all electrical connections on either side to suit site requirements.

## SYSTEM CONNECTIONS

- 1/2" BSPM connection to float valve(s)
- 1/2" BSPF connection to system
- 3/4" compression overflow connection

## DIMENSIONS / WEIGHT

Dimensions (mm): 385w x 345d x 315h  
Weight (kg.): 18 (dry) / 28 (wet)

## ELECTRICAL

- Motor: Totally enclosed fan cooled
- Electrical supply: 240 a.c. single phase
- 0.37 kW / 2.5 amps FLC continuously rated
- Motor insulation: IP44 Class F

## PIPEWORK

Suction & discharge internal pipe-work complete with double check valves and twin isolation valves.

## BREAK TANK

1 No. 10 litre polypropylene tank with 1/2" float valve and a 22mm compression overflow connection. Second float valve option for low water pressure areas.

## PUMP

Constructed of a cast iron body with stainless trim, stainless steel shaft with a brass impellor. The pump incorporates a self-adjusting mechanical seal.

## VESSELS

A Full range of replaceable bag/diaphragm expansion vessels are available to suit all systems.  
Range: from 3 to 1000 ltr. (rated at 99°C & 10bar).

## CONTROLS

All within the integral enclosure, the controls feature :-

### Electronic Controls for:

- Pump control
- High pressure alarm
- Low pressure alarm
- Daily anti-seize pump pulse

### Alarms for:

- Low pressure
- High pressure

### Gauge for:

- System pressure

### Volt free contacts for:

- Low pressure
- High pressure



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MIC-0509

# THE LARGEST STOCK IN SCOTLAND

## Our Product Range



- Pumps
- Valves
- Filters
- Gaskets and Packing
- Pressure Guages and Thermometers
- Flexible Belows
- Mechanical Seals
- Pump Spares for all makes



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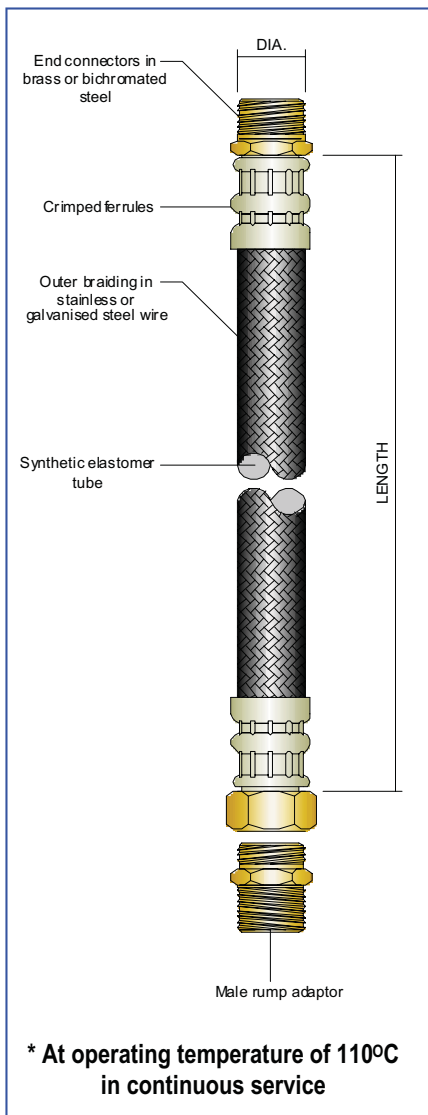
# Trained Professional Staff







*Design. Supply, Installation and Maintenance*



# BRAIDED FLEXIBLES



-  **Design flexibility**
-  **Ease of maintenance and replacement**
-  **Minimal waste (with no pipes to cut to waste).**
-  **Reduction in noise and an allowance for expansion**

## CONNECTION APPLICATIONS

Braided Flexibles help keep costs to a minimum. They are ideal for overcoming space restrictions and for connecting non aligned components, without the need for brazed joints and bends, giving:

- Design flexibility.
- Ease of maintenance and replacement.
- Minimal wastage (with no pipes to cut to length).
- Reduction in noise and an allowance for expansion.

- Various construction materials
- Insulated versions

Typical applications include:

- Fan Coil Units
- Air Handling Units.
- Small pumps.
- Isolation of pipework.
- Connection to sanitation equipment.
- Final connections of gas appliances.

Call our technical sales advisors, who can assist you with selecting the correct Braided Flexible for your application.

## AVAILABLE IN THE FOLLOWING STANDARD SIZES:

Diameters (BSP)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Lengths	300mm		450mm		600mm	

## PRESSURE RATINGS TABLE:

DIMENSIONS	Connector (BSP)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	Internal Diameter (mm)	15	20	26	32	40	50
	External Diameter (mm)	22	28	35	43	53	67
	Passage at the connectors	12	17	22	28	35	43
*OPERATING PRESSURE (bar)	Galvanised steel braid	15	12	10	8	7	-
	Stainless steel braid	20	17	13	11	8	7
BURSTING PRESSURE (bar)	Galvanised steel braid	75	60	50	40	35	-
	Stainless steel braid	100	85	65	55	40	37

**Discuss your application requirements when you order to ensure satisfactory performance**



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# FLOAT SWITCHES



-  **WRAS Approved versions**
-  **Available in various lengths**
-  **Inexpensive and efficient**
-  **Simple to Install**

## OVERVIEW

### LR04 - FLEXI:

This float switch differs from the standard switch in having a more flexible cable which enables the distance between the clamping point and float chamber to be less than 300mm recommended for the standard unit.

Contact Rating: 4 amps

### LR02:

The switch in the LR02 comprises of a micro switch and rolling ball arrangement. The micro switch assembly inside the float, axially mounted in line with the weight changes contact according to the floats position. Actuation is via a roller ball micro switch arrangement within the switch thereby eliminating all heavy metals from this version.

Contact Rating: 15 amps non-inductive.  
10 amps inductive.

### LR07:

This float switch is a plastic switch moulded to a EPDM 3 core cable (WRAS Approved). Actuation is via a roller ball micro switch arrangement within the switch thereby eliminating all heavy metals from this version.

Contact Rating: 15 amps non-inductive.  
10 amps inductive.

### LR03:

This float switch is plastic moulded to either a PVC or synthetic rubber 3 core cable. Actuation is via a roller ball micro switch arrangement within the switch thereby eliminating all heavy metals from this version.

Contact Rating: 15 amps non-inductive.  
10 amps inductive.

## MECHANICAL INSTALLATION

1. Drill tank lid with a 9mm hole close to access cover but away from the ball valve to prevent disturbance.
2. Fit cable gland holder over the 9mm hole securing in position with the self tapping screws provided.
3. Feed the cable through the lid & gland using the top compression nut to lock the float switch at the required depth.
4. Adjust the pivot weight for the required differential between contact make & break.  
The weight uses an O ring or gripper to secure the cable but extra fixing by cable tie is recommended.

## ELECTRICAL CONNECTIONS

The unit has a three core cable coloured black, brown & blue.

Brown - common.

Brown & Black - contact makes on level rise.

Brown & Blue - contact makes on level drop.

For pump low level protection use black for feed, brown return.

NOTE: THE WIRE NOT USED MUST BE CORRECTLY INSULATED

SEWAGE FLOATS	
CODE	LENGTH
LR04 - FLEXI	5m
LR02 - L10M	10m
LR02 - L20M	20m
FLOAT SWITCH	
CODE	LENGTH
LR07 - L10M (WRAS)	10m
LR07 - L20M (WRAS)	20m
FLOAT SWITCH (PVC CABLE)	
CODE	LENGTH
LR03 - L10PVTR	10m
LR03 - L20PVTR	20m

### ► Example of a Sewage Float Switch



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# FLEXIBLE BELLOWS - UNTIED



Isolate vibration & eliminate noise transmission



Suitable for both LPHW and chilled water



Corrosion resistant and maintenance free



Potable water grade Bellows available

## FLEXIBLE BELLOWS

United Flexible Bellows are moulded and fabricated units, eliminating pipe line noise transmission.

Available with standard and non standard flange drilling, they cater for a wide range of Building Services or Industrial applications including:

- Chilled Water
- LPHW
- Pressures up to 16 bar
- Temperatures up to 85 degrees centigrade

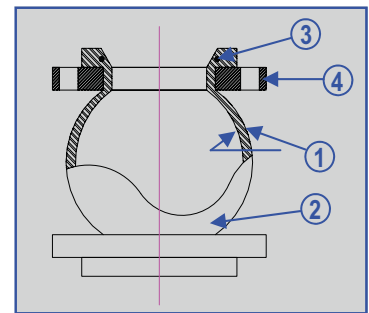
Manufactured to a high standard, the units are:

- 100% leak proof.
- Corrosion resistant.
- Maintenance free.

They can be incorporated in a variety of designs to solve noise problems and isolate vibration, making them popular additions at pump suction/discharge connections.

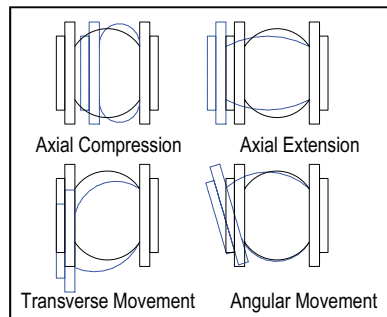
Standard flange drilling  
conforms to BS4505 NP6  
or NP16

Discuss alternative drilling  
requirements with our  
Technical Sales Advisors



Component Materials		
Item	Part	Material
1	Body	Heat Resisting Rubber
2	Body	Nylon Tyre Cord
3	Wire	Hard Steel Wire
4	Flange	Mild Steel

Maximum Working Pressure @ 50 C = 7 bar  
Maximum Working Pressure @ 85 C = 3.5 bar  
(Typical application values, check with our sales advisors)



## Dimensions and Allowable Movements

Nominal Diameter		Natural Installed Length	Allowable Movements from Natural Length				Pressures	
Inch	mm	mm	Axial Compression (mm)	Axial Extension (mm)	Lateral Deflection (mm)	Angular Deflection (mm)	Positive P.S.I.G at Deg C	Vacuum (mm)
1 1/4"	32	125	10	5	10	10	225	660
1 1/2"	40	125	10	5	10	10	225	660
2"	50	125	10	5	10	10	225	660
2 1/2"	65	125	10	5	10	10	225	660
3"	80	125	10	5	10	10	225	660
4"	100	125	10	5	10	10	225	660
5"	125	125	10	5	10	10	225	660
6"	150	125	7	5	7	7	225	660



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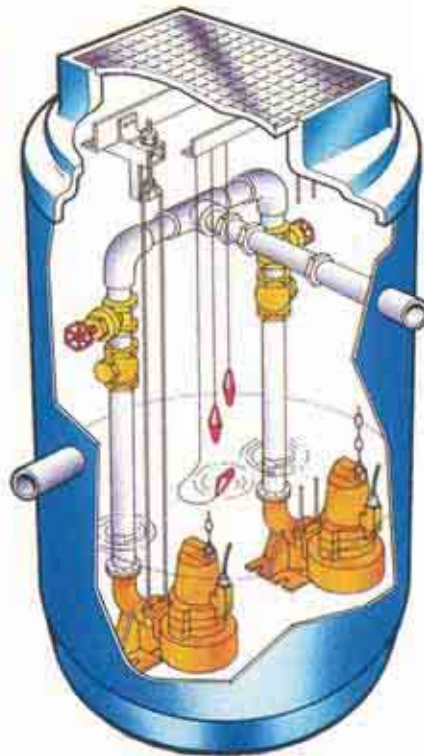
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Ferrier Pumps build and service clean and wastewater Pump Stations throughout Scotland forming an essential part of the infrastructure of their clients' businesses and quality of life.

Like any other mechanical or electrical item of plant it is essential to ensure that pump systems are maintained to the highest standards, allowing them to provide trouble free, cost effective performance year on year.

To enable our clients to enjoy the reliable performance they have come to expect from Ferrier products, we have developed our **GOLD STAR PUMP MAINTENANCE PROGRAMME** which provides all year maintenance and emergency backup 365 days a year, 24/7.



Each GOLD STAR PROGRAMME is individually tailored to suit the clients unique circumstances and to provide the most cost effective coverage appropriate to the nature of the pumping operation and the consequences of a breakdown. The degree of coverage is fully detailed in the two, three or four star packages on offer.



Ferrier Pumps are unique as they are the only company of its kind to operate from three depots with fully equipped workshops located at Glasgow, Edinburgh and Aberdeen. Each depot has an emergency engineer on standby 24/7 ready to respond to the emergency mobile number allocated to each contract. Where our customised telemetry systems are fitted to a pump system our engineers can receive text messages directly from the pump station itself, including a diagnosis of the nature of any failure.





# MAINTENANCE SERVICE

Ferrier Pumps operate a specialist preventative



maintenance system known as the 'Gold Star Programme' designed for supermarkets, service stations, schools, hotels and caravan sites etc. In short a programme designed for businesses that rely on first class performance from their sewage systems, water supplies and heating systems, but who cannot justify staff to maintain such equipment. As part of the 'Gold Star' packages, Ferrier Pumps carry out a survey of their clients requirements and formulate a comprehensive programme of site visits and routine maintenance inspections to match their customer's needs.

Our service Engineers are fully trained in the use of gas detection equipment, confined space working and all relevant health and safety legislation, we are NICEIC registered and operate to ISO9001:2000 quality control procedures.



**FERRIER PUMPS LTD**

**SCOTLAND'S LEADING  
PUMP SPECIALISTS**

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## TWO STAR MAINTENANCE AGREEMENT

Will consist of one major and one minor site visit per year.



## THREE STAR MAINTENANCE AGREEMENT

will consist of one major and two minor site visit per year.



## FOUR STAR MAINTENANCE AGREEMENT

will consist of two major and two minor site visits per year.



[WWW.FERRIERPUMPS.CO.UK](http://WWW.FERRIERPUMPS.CO.UK)

