

Boiler Additives And Filtration



Boiler & Hydronic System Additives

Product	Description	Part Number
Boiler Water Side Cleaner, 1L CLEAN BOILER	<ul style="list-style-type: none"> Removes metal oxides and lime scale deposits from the water side of boiler heat exchangers Neutral pH does not corrode or damage gaskets, plastics or metals Clean the heating system with the boiler on or off Provides energy savings and reduces noise by removing metal oxides and lime scale from the water side surface of the heat exchanger Restores heat transfer to the original levels Reduces maintenance costs Concentration Requirements: 10 litres treats 100 litres of water (10-20% dosage) 	AXTH-BOILER-1L
Boiler Combustion Side Cleaner, 1L CLEAN F9 A	<ul style="list-style-type: none"> For Stainless Steel / Copper / Aluminum heat exchangers Removes even the most stubborn combustion residue from heat exchangers Provides energy savings by removing combustion residue from the fire side surface of the heat exchanger Restores heat transfer to the original levels Comes with an extended spray nozzle Child security cap lock and bottle seal No pouring or mixing needed 	AXTH-CF9A-1L
Boiler Combustion Side Cleaner, 1L CLEAN F9 B	<ul style="list-style-type: none"> For Aluminum heat exchangers Removes even the most stubborn combustion residue from heat exchangers Provides energy savings by removing combustion residue from the fire side surface of the heat exchanger Restores heat transfer to the original levels Comes with an extended spray nozzle Child security cap lock and bottle seal No pouring or mixing needed 	AXTH-CF9B-1L
System Cleaner For "New" Hydronic Systems, 500ml CLEAN 3	<ul style="list-style-type: none"> Suitable for all kinds of new closed loop hydronic heating and cooling systems: traditional hydronic heating systems, chilled water systems and geothermal systems Low concentration requirements Neutral pH does not corrode or damage gaskets, plastics or metals Eco friendly chemicals do not contain harmful or hazardous substances Clean the heating system with it on or off Provides energy savings by removing oil residue and metal oxides Reduces maintenance costs 	AXTH-C3-500ML
System Cleaner For "Old" Hydronic Systems, 500ml CLEAN 5	<ul style="list-style-type: none"> Suitable for all kinds of old closed loop hydronic heating and cooling systems: traditional hydronic heating systems, chilled water systems and geothermal systems Low concentration requirements Neutral pH does not corrode or damage gaskets, plastics or metals Eco friendly chemicals do not contain harmful or hazardous substances Clean the heating system with it on or off Provides energy savings by removing oil residue and metal oxides Restores heat transfer and water circulation to their original levels Reduces maintenance costs 	AXTH-C5-500ML
System & Boiler Cleaner, 5L CLEAN 10	<ul style="list-style-type: none"> High dosage cleaner for the most troubled systems is suitable for all kinds of hydronic heating and cooling systems: traditional hydronic heating systems, chilled water systems and geothermal systems Low concentration requirements Neutral pH does not corrode or damage gaskets, plastics or metals Eco friendly chemicals do not contain harmful or hazardous substances Clean the heating system with it on or off Provides energy savings by removing lime scale, sludge and metal oxides Restores heat transfer and water circulation to their original levels Reduces maintenance costs 	AXTH-C10-5L
Heating System Corrosion & Scale Inhibitor, 500 ml PROTECT 1	<ul style="list-style-type: none"> Suitable for all kinds of hydronic heating and cooling systems: traditional hydronic heating systems, chilled water systems and geothermal systems Keeps the heat exchanger, pipes and radiators clean Low concentration requirements Neutral pH does not corrode or damage gaskets, plastics or metals Eco friendly chemicals do not contain harmful or hazardous substances Reduces maintenance costs 	AXTH-P1-500ML



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Boiler Additives

Product	Description	pH	SG	Part Number
Central Heating Protector - Protector F1 	<ul style="list-style-type: none"> Protects against corrosion and scale in mixed metal central heating systems Gas savings of up to 15% can be achieved every time you heat your room (when used in conjunction with Cleaner F3) Carbon Footprint certified by the Carbon Trust Stops frequent venting of radiators Prevents sticking pumps and boiler noise Reduces maintenance costs and saves on fuel bills Prevents cold spots in radiators Non-Toxic, environmentally friendly 500 ml, Clear liquid 	7.1-8.1 (conc) 7.6-8.2 (soln)	1.095 at 20°C	F1-500
Boiler Noise Silencer F2	<ul style="list-style-type: none"> Reduces boiler noise. Suitable for all types of boilers, including combination boilers and those containing aluminum components Improves heat transfer efficiency Compatible with all Fernox Protectors Non-Toxic, environmentally friendly Can be left in the system permanently Compatible with all metals and materials commonly used in central heating systems In single feed indirect cylinders, eg. 'Primatic' or similar, potable water chemicals must be used 500 ml, pale beige, faint odour 	7.0	1.08 @ 20°C	F2-500
Central Heating Cleaner - Cleaner F3 	<ul style="list-style-type: none"> Neutral universal cleaner for pre-commissioning new systems in accordance with BS7593:2006 Removes sludge, lime scale and other debris to restore heating efficiency of existing systems When used in conjunction with Protector F1 gas savings of up to 15% Carbon Footprint certified by the Carbon Trust Compatible with all metals and materials commonly used in heating systems Easy to use, systems can be left running normally during cleaning Suitable for use with all known powerflushing machines Neutral, non-hazardous formula (COSHH rated zero) 500 ml, dark amber colour, faint odour 	7.0-7.5 (conc) 7.5-7.8 (1% soln)	1.20 @ 20°C	F3-500
Leak Sealer F4	<ul style="list-style-type: none"> Maintain the design specification and energy efficiency Restore energy efficiency Inhibit the formation of scale and sludge Minimize corrosion of system metals 500 ml, off-white colour, faint odour 	Approx. 6 (conc) 7.85 (soln)	1.0 @ 20°C	F4-500
Boiler Commissioning Kit	Kit: 1-Protector F1; 1-Cleaner F3; 4-pH test strips; 2-60 sec protector check strips; instructions			CK-1



Boiler Additives And Filtration

Boiler Additives - Express

Product	Description	pH	SG	Part Number
Central Heating Protector - F1 Protector Express Can	<ul style="list-style-type: none"> • Quick and convenient, doses in 30 seconds • Simple to use with no mess • Add via a radiator adapter or filling loop supplied • Protects against corrosion and lime scale • Non-toxic, environmentally friendly formulation • 100% recyclable can • Maintains system efficiency, extends boiler life • Suitable for use with all metals and materials including aluminum • 265ml aerosol, clear, faint odour 	7.8-8.5 (conc) 7.6-8.2 (soln)	1.16 @ 20°C	F1-EXPRESS
Boiler Noise Silencer - F2 Express Can	<ul style="list-style-type: none"> • Doses in 30 seconds • Radiator adapter or filling loop supplied • Non-toxic, environmentally friendly formulation • 100% recyclable can • Reduces boiler noise and improves heat transfer efficiency • Saves on fuel bills, reduces maintenance costs • Compatible with all metals and materials including aluminum • 265ml aerosol, pale beige, faint odour 	7.0	1.23 @ 20°C	F2-EXPRESS
Leak Sealer - F4 Express Can	<ul style="list-style-type: none"> • Doses in 30 seconds • Non-toxic, environmentally friendly formulation • 100% recyclable can • Seeks out and seals most weeps and leaks • Saves time and cost on draining down and repairing • Does not cause blockages of pumps, air vents, etc • Compatible with all Fernox Protectors • 265ml aerosol, white, faint odour 	5.0-7.0	1.0 @ 20°C	F4-EXPRESS
F5 System Cleaner Express Can	<ul style="list-style-type: none"> • Quick and simple to use, doses in 30 seconds • 100% recyclable can • Compatible with all metals and materials including aluminum • Removes sludge and scale, restores heating efficiency • Removes flux residues and other debris • Neutral, non-hazardous and environmentally formulation • 280ml aerosol, amber, faint odour 	7.0	1.201 g/cm ³ (20°C)	F5-EXPRESS
Express Boiler Commissioning Kit	<ul style="list-style-type: none"> • Maintain the design specification and energy efficiency • Restore energy efficiency • Inhibit the formation of scale and sludge • Minimize corrosion of system metals • Express format for easy use • Kit: 1-Protector F1; 1-Cleaner F5, 4-pH Test Strips; instructions 			CK-2



F1-EXPRESS

F2-EXPRESS

F4-EXPRESS

F5-EXPRESS

CK-2



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DS40 System Cleaner



- Rapidly removes lime scale, black sludge and other deposits
- Restores circulation and improves heating efficiency
- Free-flowing powder for easy use with powerflushing units or application via F&E tank or injector (for sealed systems)
- Turns yellow when product exhausted
- Compatible with all mixed metal systems
- Neutralizer sachets included
- Belgaqua approved product

Description	pH	Part Number
1.9 kg container, red powder form, faint odour in solution	2-3 (2% w/w solution)	DS-40
Commercial Size - 25 kg pail treats 650 gallons		DS-40-25

Lime scale Remover DS-3



- Restores efficiency to all types of water heaters
- Powerful acid lime scale remover, dissolves up to 50% of it's own weight of lime scale
- Corrosion inhibited
- Colour change indicated when exhausted
- Safe to apply and easy to use
- Contains sulphamic acid with indicators and non-foaming surfactants

Description	pH	Part Number
2 kg container, yellow colour, crystal form, faint odour	2 (at 1% w/w in water)	DS-3

HVAC Commercial Cleaner F3



- Cleaner for commercial heating and cooling systems
- Pre-commission cleanser for new installations
- Removes sludge and scale and restores efficiency of existing systems
- Compatible with all metals and materials commonly used in heating and cooling systems
- No neutralizer required
- Suitable for use with all known powerflushing machines
- Non-acidic formula
- Non-hazardous, environmentally friendly

Description	pH	SG	Part Number
10 litre drum, dark amber colour, liquid, faint odour	7.0-7.5(conc) 7.5-7.8(1% soln)	1.20@20°C	F3-10

HVAC Commercial Protector F1



- Central heating protector for mixed metal commercial and HVAC heating and cooling systems
- Renders water non-corrosive to steel, cast iron, copper, brass, and aluminum
- Prevents lime scale build-up
- Maintains efficiency so extending system life
- Prevents bacterial contamination
- Compatible with all metals and materials commonly used in heating and cooling systems

Description	pH	SG	Part Number
10 litre container, yellow colour, liquid, faint odour	7.0 (conc) 7.5-8.0 (1% soln)	1.086 @20°C	F1-10



Boiler Additives And Filtration

Powerflow Flushing Machine MKIV



- Powerflush central heating system to remove corrosion debris, sludge, and scale
- De-scale boilers
- Overcome boiler noise and circulation problems
- Clean a system with just ONE visit to site
- High temperature operation to enable faster cleaning
- 1100W pump/motor
- Integral double check valve on mains fill
- Lightweight
- Reversible flow action
- Use with Fernox products only
- CE marked pump
- Two year return to base warranty

Pump/Motor	Circulation Rate	Operating Temp	Tank Capacity	Part Number
1100W	99 l/m	85°C	50 litre	MKIV

Powerflow Flushing Magnetic Filter



- Removes and traps magnetite, rust, and magnetic materials from the system
- Protects the boiler during powerflushing
- By-pass enables the magnet to be inspected w/o the need to interrupt the flushing process
- Rated temperature up to 85°C
- Compatible with all Fernox Cleaners and Protectors
- Easy to Clean and simple to operate
- Magnet: 11,000 gauss neodymium rare earth magnet, sleeved in stainless steel
- Maximum magnetic iron oxide capacity: 2.1 kg
- Long water residence time within the cylinder
- Collects small and large contaminants
- Dual three-port by-pass valve system

Description	Operating Temp	Part Number
Individually packaged with hose	85°C	PF-MF

Powerflow Pump Head Adapter



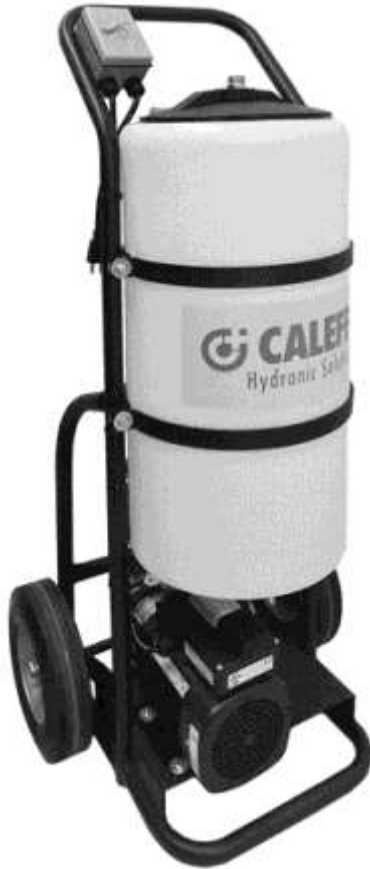
- Facilitates easy connection of powerflushing machines to central heating systems via the body of circulating pump
- Useful for condensing boilers with in-built circulators
- Allows cleaning of secondary heat exchangers without dismantling the boiler
- Saves time on-site and easy to use
- Compatible with all commonly used circulators
- Made from rugged, acid resistant polypropylene and stainless steel

Description	Part Number
Included "O" rings: 72mm x 5mm; 74mm x 5mm; 80mm x 5mm	PF-ADP



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HYDROFLUSH™ Pump Cart



- Portable, leak-tested for a safe, fast and clean way to fill and flush solar, geo thermal and hydronic systems
- Medium: water, glycol and cleaning fluids
- Tank is 13 gallons with dirt filler
- Pressure gauge: 2" dial, 0-100 psi
- Pump Body: cast iron and stainless steel; impeller: stainless steel
- Cart frame: welded steel chassis, powder coat frame; filter: stainless steel
- Isolating ball valves: 3/4" garden hose thread
- Transfer hoses: 6' with 3/4" GHT (2 ea.)

Pump Delivery Flow	Max Tank Medium Temp.	Pump Feet of Head	Max Pump Pressure	Power	Dimensions	Part Number
1-13 gpm	150°F	220	100 psi	1/2 HP / 120VAC	48"H x 20"W	NA25510

Dual Fill and Flush Valve



Description	Brand	Part Number
1" male thread x 3/4" GHT	Caleffi	NA256011



Boiler Additives And Filtration - Kits & Meters

Protector Test Kit



- Simple and accurate on-site testing of Fernox Protector concentration
- Supplied in a heavy duty outer plastic case
- At least 25 systems can be tested in full
- Suitable for testing all Fernox Protectors
- Gives added security to diagnose and treatment

Description	Brand	Part Number
Supplied with all equipment and reagents required in determining the Protector levels of at least 25 systems, with full instructions included	Fernox	P-TK

Water Test Kit



- Rapid on-site analysis of central heating system water
- Simple colour charts for measuring concentrations
- Tests for major parameters affecting water quality
- Easy to use colour charts are provided for the iron, copper, pH and hardness tests

Description	Brand	Part Number
Supplied with equipment and reagents required for 50 determinations of chloride, copper, iron, hardness, pH and Fernox Protector levels, with full instructions included	Fernox	W-AK

TDS Meter



- Microprocessor TDS Meter
- For easy on-site measurement of total dissolved solids in system and mains waters
- Easy to use
- For use with Rinse Testing Product

Description	Brand	Part Number
Maintenance free, change battery when power fails or display fades, no calibration needed	Fernox	TDS

Refractometer



Description	Brand	Part Number
<ul style="list-style-type: none"> • Antifreeze test instrument • Refractive index is used to determine concentration of material when dissolved in water due to the difference in refractive index between water and the material being monitored • Scale is calibrated for use at 20+2°C with graphs provided • Adjustable eye piece, instructions included 	Fernox	REFR
<ul style="list-style-type: none"> • Testing concentration of battery fluids, antifreeze liquids and cleaning fluids • Percentage indicator indicates the point of freezing for both propylene glycol and ethylene glycol • Can also be used for checking strength of electrolyte solution batteries 	CPS	TLREF

Demineralizers

PuroPal Complete - Make-Up Water Demineralizer



- Demineralizes fill water for closed loop hydronic systems. Quality of water, especially when mixed with ant-freeze (glycol), can have an impact on system performance.
- Removes aggressive salts such as chlorides, sulphates, and nitrates which attack metals like stainless steel, copper and aluminum
- Removes scale producing ions like calcium and magnesium that damage components and block heat transfer
- Easy to install
- Lowers electrical conductivity, which reduces corrosion
- Max Operating Pressure: 87 psi (600 kPa)
- Max Temp: 140F (60C)
- Includes: S.S housing, brass head with air filter, two isolation ball valves, 3/4" brass male GHT inlet and outlet, conductivity and flow meter with programmable conductivity limit, limit warning signal light, automatic water quality monitor, total litres treated display, comes with (3)AAA batteries, and wall mounting bracket.

Delivery Capacity	Installed Length	Height	Empty Weight	Resin Filling	Brand	Part Number
.66 gpm (2.5 L/min)	18 in. (45 cm)	18 in. (46 cm)	11 lbs (5 kg)	.5 gal (1.75 l)	Axiom	PUROPAL-COMP-2
2.6 gpm (10 L/min)	32 in. (80 cm)	28 in. (70 cm)	17 lbs (7.5 kg)	3.3 gal (12.5 l)	Axiom	PUROPAL-COMP-12
5.3 gpm (20 L/min)	32 in. (80 cm)	45 in. (115 cm)	33 lbs (15 kg)	6.6 gal (25 l)	Axiom	PUROPAL-COMP-25
5.3 gpm (20 L/min)	32 in. (80 cm)	56 in. (142 cm)	40 lbs (18 kg)	13 gal (50 l)	Axiom	PUROPAL-COMP-50
HighPower mixed bed resin for PUROPAL-COMP-2 , 5 lbs					Axiom	MBR-2
HighPower mixed bed resin (12L), 30 lbs					Axiom	MBR-12

Demineralizers

HYDROFILL™ - Portable Water Treatment Filling Unit



- Filling Unit with cart including four resin bags
- Produces ideal grade demineralized water from site sourced water for use in closed loop hydronic systems
- Minerals responsible for producing hardness and conductivity are removed from water through an ion exchange process
- Filling Unit Body: composite PPHAGF50 body, stainless steel screen, EPDM seals
- Shut-off Ball Valve: brass body, stainless steel body, EPDM seals
- TDS meter: 0-9990 ppm, res:1 ppm; accuracy: 2%; battery: 2 x 1.5V button cell (LR44/357A); battery life: approx. 1000 hours of continuous use

Max inlet pressure	Max working temp	Max Fill Rate	TDS of Water after Treatment	Connections	Dimensions	Brand	Part Number
120 psi	100°F	12 gpm	<30 ppm	3/4" GHT	42 1/2" H x 21" W	Caleffi	NA570924
Four replenishment bags: recyclable resin filter bags for HYDROFILL in reusable plastic pail						Caleffi	NA570974

Puopal Pro - Portable Water Demineralizer



PUROPALJR.PRO, PUROPAL-PRO-50,
PUROPAL-PRO-25



- Demineralized water meets the strict water quality requirements from boiler and glycol manufacturers
- Removes all aggressive salts such as chlorides, sulphates, and nitrates which specifically attack metals, stainless steel, copper, and aluminum
- Removes scale producing ions like calcium and magnesium that damage components and block heat transfer
- Lowers electrical conductivity, which reduces corrosion
- High quality stainless steel housing
- Portable and easy to use
- Ion resin can easily be replaced when spent
- 87 psi (600 kPa) at 140 °F (60°C)

Description	Brand	Part Number
12 litre: Shut off valve, conductivity and flow meter with programmable conductivity limit, limit warning signal light, automatic quality monitor, total litres treated display, (3) AA batteries	Axiom	PUROPALJR.PRO
25 litre cart: (2) isolation ball valves, mixing valve, pressure reducing valve, pressure gauge, flow rate and total volume meter, TDS meter that displays measurements at inlet and outlet, (2) AA batteries	Axiom	PUROPAL-PRO-25
50 litre cart: (2) isolation ball valves, mixing valve, pressure reducing valve, pressure gauge, flow rate and total volume meter, TDS meter that displays measurements at inlet and outlet, (2) AA batteries	Axiom	PUROPAL-PRO-50
Permeable resin exchange bag, 5 lbs	Axiom	EXCHBAG-1
HighPower mixed bed resin (12 L), 30 lbs	Axiom	MBR-12