

## FLUSH BUDDY

- **Removes magnetite, rust and magnetic materials from heating systems during power flushing**
- **Connects directly on to the Fernox Powerflow flushing machine**
- **Bi-directional flow ensures all magnetic particles within the system are collected**
- **No pressure or flow drop, even when the filter is completely full**
- **Increases the effectiveness of power flushing**
- **Visible demonstration of debris removal**
- **Simple to connect**
- **Easy to clean**
- **Compatible with all Fernox Cleaners and Protectors**



### Product Uses

The Flush Buddy is a premium quality, in-line, high efficiency, magnetic filter that uses award winning\*, patented flux plates and a magnet to remove ferrous particles from system water. From technology that is used in Formula 1 the Flush Buddy has been designed to complement the Fernox Powerflow Flushing Machine MKII, ensuring the removal of magnetite, rust and magnetic particles to restore heating efficiency in existing systems and prevent potential component damage during power flushing from circulating debris. Unlike conventional filters the patented plate design ensures that the filter does not restrict flow, even when full. The clear bowl enables the build-up of debris to be observed and offers a unique opportunity to demonstrate the benefits of powerflushing to homeowners.

\* *Millennium Award for Innovation.*

### Application

Connect the Flush Buddy to the flow valves on the Fernox Powerflow unit. The unit connects directly onto the valve via the female Cam-lock connector. Attach the hose to the other end of the Flush Buddy using the male Cam-lock connector and power flush in accordance with the power flushing machine manufacturer's instructions. As the unit is bi-directional, there is no need to move or alter the Flush Buddy when reversing the flow during power flushing.



### Basic Powerflow Operating Procedure

#### Connecting to the system:

1. For open vented systems, link or cap off the feed and vent pipes. No changes are required for sealed systems.
2. Always employ best practice when protecting customer's property for wet works. Connect to the electricity supply via an RCD.
3. Connect up the ½" clear mains water inlet hose, ¾" clear dump and overflow hoses and ¾" yellow rubber flow and return hoses to the Powerflow by their Cam-lock connectors. Connect the Flush buddy between the

flow/return valve and the hose using the Cam-lock connectors provided. Ensure that there is a sufficient "fall" on the dump and overflow hoses.

4. Isolate and remove the system circulator and connect in the adapter elbows supplied with the Powerflow unit and couple these to the yellow flow/return hoses. Alternatively, (combi-boilers) connect by fitting the ¾" Powerflow flow/return hoses directly to the main system flow and return or across a radiator.

### **Filling and Circulating**

1. Fill the Powerflow unit with water to approximately half way between the indicated maximum and minimum fill levels.
2. Open the system pump isolating valves and the flow/return isolating valves on the Powerflow unit, but ensure that the dump valve on the Powerflow is closed initially.
3. Switch on the pump. Ensure that the liquid level on the tank remains above the minimum mark. Add/dump water if necessary.
4. The boiler may be operated normally with the Powerflow pump connected.

### **Powerflushing Method Statement**

The following sequence for flushing can be applied to most installations, after the rectification of mechanical faults found.

1. Flush system and refill.
2. Add Fernox Cleaner F3 / DS40 System Cleaner (as per product instructions).
3. Circulate hot for the duration indicated in the Cleaner / DS40 System Cleaner instructions.
4. Using the red lever reverse flow direction every few minutes during circulation.
5. Flush system to remove cleaner.
6. Flush each radiator in turn to remove sludge until water is clear, monitoring with a Fernox TDS meter.
7. Open all parts of system again, circulate and flush again. Confirm results with the Fernox TDS Meter.
8. Disconnect the Powerflow flushing pump and re-commission the system.
9. Add Fernox Protector F1.

### **How to clean the Flush Buddy magnetic core**

1. Close off the flow/return valve connector and isolate the Flush Buddy from the Powerflushing machine.
2. Unscrew the clear plastic bowl and remove.
3. Carefully remove the magnetic core by pulling off.
4. Rinse the magnetic core under flowing water, with the water flow perpendicular to the magnets. If necessary a stiff nylon brush can be used. Care should be taken that any contaminant is appropriately disposed of.
5. Once clean replace the core, refit the washer and bowl, reconnect and continue use.

### **Packaging, Handling and Storage**

The Flush Buddy is supplied together with the Cam-lock connectors ready for assembly.