

KAMCO POWER FLUSH MACHINE

Kamco

The Kamco Power Flush machines have a high efficiency impeller, coupled to a highly powerful motor and a low-loss flow reserving device, giving a high flow rate which allows for more removal of debris.

The large tank minimises overflow risks, and is fitted with wheels so it can be easily moved even when full.



STARTER KIT (INCLUDED)



Contents:

- 2 x 5m flow and return hoses
- Brass hose couplings
- 1 x 8m Dump hose
- 1 x 8m Water inlet hose
- 1 x 3m Overflow hose
- 2 x Adapter hoses for the connection to 1.5" circulator pump fittings
- Flushing chemicals, Inhibitor & pH test strips sufficient for 2 x power flushes
- 10 part kit of BSP threaded adapters (CF40 and CF90 models)
- Waterproof hose set carry crate

A power flush is a cleaning procedure carried out on hydronic heating systems, using specialist equipment. Power flushing cleans the inside surfaces of your central heating system, removing rust and sludge which is often referred to as magnetite.

The procedure is made more effective by using chemicals and magnets, which aid the cleaning process. Once satisfactorily clean, a chemical called "inhibitor" is added to the system, preventing the re-forming of sludge.


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| | Clearflow CF40 | Clearflow CF90 | Clearflow CF210 |
|---------------------------|--|---|---|
| Application | Domestic heating systems | Domestic and small commercial heating systems | Domestic and commercial |
| Flushing capability | 20/25 radiators max; 2/3 storeys | 40 radiators max; 3 storeys | 60 radiators max; 3 storeys |
| Tank capacity | 39l translucent HDPE | 57l translucent HDPE | 125l translucent HDPE |
| Electric motor size | 0.80 kW, IP55 rating, 230 volt | 1.1 kW, IP55 rating, 230 volt | 1.1 kW, IP55 rating, 230 volt |
| Max. flow rate | <90 l/m | <150 l/m | <170 l/m |
| Max. head | 20m | 24m | 28m |
| Max. temperature | 75°C | 75°C | 75°C |
| Flow reverser type | instantaneous | instantaneous | instantaneous |
| Control valves | 3-port combination valves for isolation and dumping | 3-port combination valves for isolation and dumping | 3-port combination valves for isolation and dumping |
| Carrying / transport | Integral handle; 75mm wheels | Integral handle; 200mm wheels | Integral handle; 200mm wheels |
| Weight (without hoses) | 17 kg | 22.5 kg | 28.5 kg |
| Chemical handling ability | All commercially available acids, alkaline solutions, chlorine solutions | | |
| Dimensions (mm) WxDxH | 390 x 440 x 690 | 390 x 590 x 890 | 530 x 680 x 890 |

Do I need a Power Flush?

Depends on the level of sludge in a system, but if a system has never had a Power Flush carried out, then it would more than likely benefit from having one. If you are fitting a new boiler on an existing system, most manufacturers state its mandatory to Power Flush the system.

What is sludge?

Sludge is a cumulative name for rust, debris and magnetite found in a hydronic heating system water.

Does Power Flushing systems work?

Yes, Power Flushing cleans hydronic heating systems from the inside, reducing sludge found within. This stops further damage to boilers, pumps, pipe work, panels, manifolds and valves, reducing future breakdowns related to the build-up of sludge.

Will a Power Flush increase my central heating's efficiency?

Yes, but the amount depends on how much sludge it had in it before the flush was carried out.

How long does it take to do a Power Flush?

It depends greatly on how much sludge is in a system and the system size. However, a basic idea: Half a day for a small system (0-6 panels), and a full day for a large one (6-12 panels).

Can I just drain the system down and refill it instead of Power Flushing it?

If you have a real sludge problem "NO". Sludge is metallic rust and the bits causing problems are large clumps that are heavy. Draining a system down will only get rid of the finest lightest sludge; the real problem will be left behind. Just because the water runs clean does not mean all the sludge is out. Some plumbers will do a chemical flush; they add a chemical, days before draining the system down. It doesn't always work because there is no increase in the water's flow rate and draining happens through just one flow path, when there are many flow paths in the system. It will help a little if the problem is small but 90% of the time, you are wasting time and money. Rather get it a Power Flush carried out from the start.

What happens if I don't power flush my hydronic heating system?

Boilers can become so damaged that they'll be deemed uneconomical to repair, requiring a replacement. The efficiency of the system can be affected, costing you lots of money in fuel usage as well as repair bills. Sludge can cause the mechanical failure of pumps, motorised valves, heat exchangers and cause pin holes to form in radiators.