



- Chemicals safely contained in integral 125lt tank.
- Handles all descaling and flushing chemicals.
- Instantaneous flow reversal.
- Self priming • Run-dry capability.
- Integral waste water discharge facility.
- Integral fresh water flush facility.



### Applications include:

- Power flushing heating and cooling systems.
- Flushing ground source heat pump coils.
- Descaling commercial and industrial boilers.
- Descaling steam generators and water heaters.
- Descaling calorifiers, condensers and chillers.
- Descaling cooling coils and water cooled rollers.
- Descaling plate and shell type heat exchangers.

The CF210 Titan is a purpose built tool for power flushing heating and cooling systems to cure the circulation and noise problems which often occur with time, or as a result of design or installation faults. These problems are generally caused by accumulations of sludge, corrosion deposits, and scale which need to be removed.

The CLEARFLOW pump is temporarily connected into a system, so that the high water velocity, combined with an instantaneous flow reversing device, dislodges and mobilises sludge and corrosion deposits, even those which resist traditional cleaning methods.

Having loosened and mobilised the debris, the CLEARFLOW pump forcibly expels it from the system through a full bore dump valve, and out to waste, using a high velocity flow of fresh water.

Radiators and other heat emitters may be individually flushed without removal or disconnection from the system. After the flush, the system is full of clean water, and re-

instatement to normal operation takes only a few minutes.

The CLEARFLOW CF210 is built with acid resistant materials, and can handle all normal commercially available descaling and power flushing chemicals. It is suitable for power flushing commercial and industrial systems, and for descaling commercial boilers, calorifiers, chillers, and water heaters. It may also be used to circulate chlorine solutions for system sterilisation purposes.



## Clearflow CF210 Titan power flushing and descaling pump

Technical data	
Electric motor	3/4 HP, IP55 rating, 230 or 110 volt 50Hz; 120volt, 60Hz.
Tank capacity	125 litres (27 gallons)
Max.flow rate	150+ l/min
Max. head	28 mt
Flow and return hoses	2 x 5 mt hoses, 22 mm I.D. reinforced PVC + 2 x 0.5 mt circulator pump adaptor hoses
Hose end fittings	1" BSP x 22 mm brass hose couplings
Dump hose	8 metre long, 1" BSP brass hose adapter
Overflow hose	3 metre long, 1" BSP hose adapter
Water inlet hose	8 metre long, 3/4" brass hose connector
Chemical handling ability	All commercially available acids, alkaline solutions, chlorine solutions
Weight	28.5 kg (exclusive of hose set), 40.5 kg with full hose set
Dimensions (mm) w x l x h	530 x 680 x 890

### The use of flushing chemicals with a CLEARFLOW

The high velocity water flow of the CF210 Titan produces dramatic results on problem heating systems. However, there is a direct relationship between the flow rate of water

and its ability to move particles both horizontally and vertically. The smaller the particle size, the more easily water will lift it and propel it along. Specially formulated power

flushing chemicals such as FX2 liquid or HYPER-FLUSH CONCENTRATE break down corrosion debris and sludge into small particles to further improve flushing efficiency.

They penetrate, loosen, and dissolve, even heavy deposit build ups, which are then forcibly expelled from the system by the high water velocity.

#### **POWER FLUSH FX2** **High performance flushing liquid**

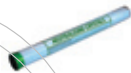
Dissolves and disperses iron oxides and hard water deposits. Used for most power flushing jobs, to avoid need for pre treating the system. Used at 2.5 to 5 litres per 100 litres of system capacity.



FX2 is also a powerful descaling chemical, and can be used for descaling boilers, heat exchangers, and calorifiers.

#### **NEUTRALISING CRYSTALS**

Used to neutralise any residues after use of POWER-FLUSH FX2, or to neutralise descaling chemicals after use.



#### **FOAMBREAKER ANTIFOAM**

Used to suppress foaming when descaling.



#### **pH PAPER**

Used after power flushing to check that water within heating system is completely neutral.



#### **HYPER-FLUSH CONCENTRATE**

Non acidic mobiliser and solvent for sludge and iron oxides. Used as a pre-treatment for systems with severe flow problems.



HYPER-FLUSH should be used to flush heating systems in a neglected condition, or those with aluminium radiators or heat exchangers. 500ml (1/2 litre) used per 100 litres of system capacity.

#### **SYSTEMSAFE-DM CONCENTRATE** **Scale and corrosion inhibitor** **for heating and cooling systems**

Added to cleansed system after flushing to prevent further corrosion and scaling. 500ml (1/2 litre) used per 100 litres of system capacity.



#### **PACKAGING**

**POWER FLUSH FX2 liquid:**  
cartons of 4 x 5 litre, 25 litre drums.

**NEUTRALISING CRYSTALS:**  
cartons of 20 x one-shot tubes, cartons of 6 x 2.5 kg, 15 kg pails.

**FOAMBREAKER:**  
1 litre dispenser pack.

**pH paper:**  
5 metre roll.

**HYPER-FLUSH CONCENTRATE:**  
cartons of 12 x 500ml, and 10 litre drums.

**SYSTEMSAFE-DM CONCENTRATE:**  
cartons of 12 x 500ml, and 10 litre drums.