

# VFU - VORTEX FILTRATION UNIT

## A guide to the VFU Chamber

Contaminated water enters the vortex here

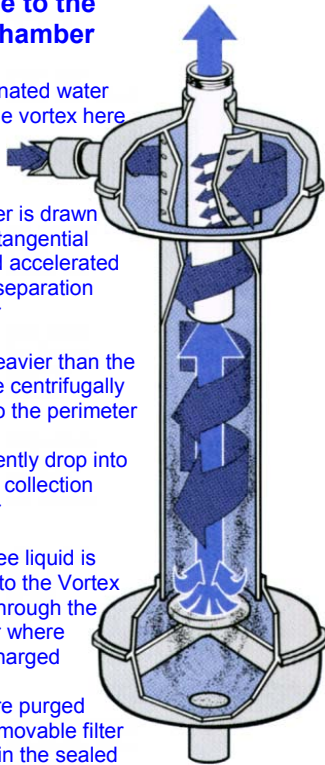
The water is drawn through tangential slots and accelerated into the separation chamber

Solids heavier than the liquid are centrifugally thrown to the perimeter

Solids gently drop into the calm collection chamber

Solids free liquid is drawn into the Vortex and up through the chamber where it is discharged

Solids are purged to the removable filter bag within the sealed filter housing.



Continuous filtration with no back washing or filtration required



Suitable for both LPHW and chilled water



Helps prevent pipework obstructions and local overheating



Minimal water loss through the closed recovery system

**MOBILE UNITS  
AVAILABLE  
FOR HIRE**

## VORTEX FILTRATION

Vortex filtration is a fresh approach to the removal of suspended solids from heating and chilled water systems giving:

- Better performance.
- Help in preventing damage and blockages.
- Eliminating or reducing use of chemical cleaning additives.

## THE VFU RANGE

The VFU range of system cleaning equipment, manufactured by Flow Mech Products:

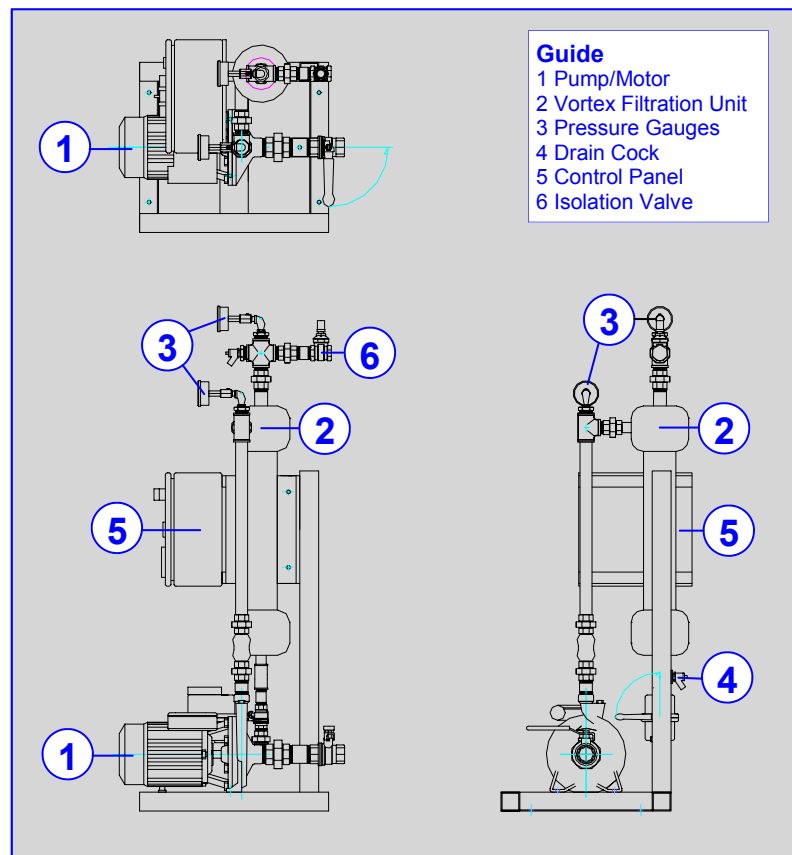
- Incorporates vortex filtration.
- Are compact, base frame mounted units, easily manhandled and positioned.
- Complete with a circulation pump and controls.
- Offer permanent or temporary installation options.

## TYPICAL APPLICATIONS

- Heating and chilled water systems, incorporating fan coil units with multi port modulating control valves.
- Versatemp and other systems incorporating heat pump units.
- Systems including plate heat exchanger for heat recovery or heat transfer.
- Old systems being renovated or up graded and fitted with replacement boiler plant etc...
- Glycol water systems.
- Pre commissioning cleaning.

## UNIT OPERATION

- A flow is drawn from the system pipework by the integral circulation pump.
- The water passes into the vortex.
- The suspended solids are separated and purged to the removable filter bag within the sealed filter housing. Clean water returns to the system.
- The circulation pump stops when the filter bag is full, and the control panel signals for a bag change.



### Guide

- 1 Pump/Motor
- 2 Vortex Filtration Unit
- 3 Pressure Gauges
- 4 Drain Cock
- 5 Control Panel
- 6 Isolation Valve

**VFUs' are non-polluting, eco-friendly, system cleaning solution**



*P r o d u c t s l t d*  
**FLOW MECH**

Abbey House, Charter Street, Leicester. LE13UD

Tel: 0116 242 5425. Fax: 0116 242 5555

Email: sales@flowmech.co.uk www.flowmech.co.uk