SLUDGEBUSTER -SMIDDY SPECIFICATION SHEET 25/26

Modulation and Filtration Apparatus for Water-Filled Heating and Cooling Systems

Purpose: Combines magnetic and physical filtration; also functions as a low loss header, magnesium anode reaction tank.

Application: Suitable for large domestic and commercial open or closed-loop heating/cooling systems (LTHW and chilled).

Key Features

Dual Filtration Method:

- Magnetic separation using an neodymium magnet.
- Fine/Coarse mesh + optional filter bag (down to 0.5 micron).

Flow Modulation:

- Multiple inlet/outlet ports allow for hydraulic separation.
- Can be used inline or side-stream.

Maintenance Friendly:

- Removable basket and magnet assembly.
- Simple clamping lid for fast access.
- Dedicated bottom drain off valve.

Filter Specifications:

- **Dosing Inlet** with one-way check valve (safe chemical introduction).
- **Microbubble Extraction Outlet** (reduces air, corrosion, and noise).
- **Pressure Gauge Ports** for differential pressure monitoring (clog detection).
- **BMS** Building Management System integration allows for real time monitoring for system performance.
- **Demineralisation points** provide/s a connection for treating system water to VDI standards

Construction

- **Vessel:** stainless steel body with external bracket for mounting.
- **Magnet:** stainless steel, encased and removable.
- **Filter Basket:** Cylindrical, stainless with 150 micron layered mesh.
- **Internal Spring:** Coil spring ensures sealed compression on filtering surfaces.
- **Lid:** Stainless with quick-clamp system, dosing and gas extraction ports.
- **Weight:** 22.7kg
- **Width:** 345mm
- **Height:** 785mm

Technical Specifications

- **Max Operating Temperature:** 100°C
- **Micron Filtration Options:** Bag filtres avaliable in 0.5, 1, 5, 10, 20, 50 microns
- **Connection Options:** Standard 1” ports or (customisable up to 2.5”), BSPT-threaded
- **System Volume Compatibility:** Up to 90,000 litres
- **Installation:** Wall or frame mount (backing plate with 4 × M12 holes)
- **Demineralisation Ports:** 1/2” standard

Filter & Bag Highlights

- Only filtered water exits the vessel — no bypass due to sealed internal volumes.
- Bag filter insert can be swapped in for high-performance fine cleaning.
- Inline installation allows full system protection;.
- Side-stream allows easy retrofitting.
- Bag filter packs (various micron sizes)
- Gasket kits (top lid and basket seal)
- Pressure gauges (or BMS integration ports)