

DATA SHEET.

Prod Code.	BSP Ref	Product Description.
FPM202010	BSP Filter Pot micro	BSP Filter Pot Micro Side Stream Filter and Dosing Unit
Feature.	Description.	
Maximum system working pressure	6 bar	
Suitable for system volumes	1,000 litres to 20,000 litres	
Flow Rate through the vessel	0.69 l/min to 13.9 l/min	
Temp range	-10°C to 90°C	
Filtration rate	Magnetic only + 20, 5 & 0.5 micron cartridges	
Dirty Flow inlet connection	½" BSP Male (ISO 228-1)	
Clean Return Outlet connection Dosing	½" BSP Male (ISO 228-1)	
Capacity	2.1 litres	
Filter Body Mounting	Wall Mounted	
Weight	9.5 kg	
Magnets x 4no	Neodymium Rare Earth encased in 316 SS shell	
Cartridge Filters	Polypropylene Anti-Microbial – 4 per pack	
Isolation Valves, NRV and fittings	Class 150 316 SS Full Bore (ISO 228-1)	

BSP Filter Pot micro



Bespoke Insulation Jacket Included



Magnets & Cartridge Included



Flexible Hoses Included



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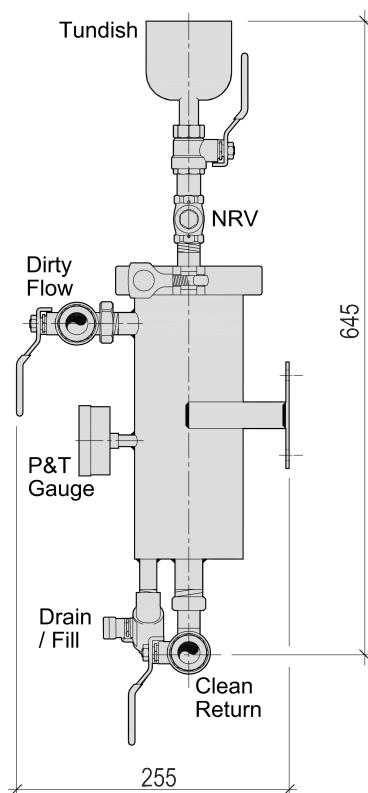
Feature.	Description.
Compliance	Fully compliant with BSRIA guidelines BG29 and BG50 for side stream filtration, chemical dosing, corrosion inhibitor treatment, magnetic filtration, passive deaeration, fill water pre-treatment, solids removal and filtration, bacteria and bio-fouling inhibition, CPD dynamic filling, maintenance and inspection, dynamic flushing procedure and on-line cleaning.
Vessel Body	The Vessel Body is manufactured from 316SS to reduce the possibility of corrosion and bacterial growth. Complies with PED 2014/68/EU(SEP) & PED (S) R 2016 N°1105
4No 8,000 Gauss Neodymium Magnet Bars & Magnet Carousel	Removes magnetic system debris before reaching the Cartridge Filter below, helps to increase the lifespan of the boiler, chiller and cooling system components, reduces carbon emissions, increases fuel efficiency and increases the lifespan of the Cartridge Filter. Each 8,000 Gauss magnet is fully encased in a 316SS shell, they are easily removable from the 316SS Magnet Carousel for cleaning and are fully submerged direct into the system flow for optimal filtration and dirt capture.
Anti-Microbial Polypropylene Cartridge Filter	The BSP Anti-Microbial Cartridge Filters remove nonmagnetic system debris, available in 20, 5 and 0.5 micron filtration rates, ensures coalescence micro-bubble formation on the surface of the Filter and surpasses BSRIA guidance for filtration rates. BSP Cartridge Filters catch and hold large volumes of dirt particles before they become blocked.
Replacement Sizes Available: 0.5 micron (Prod. code: CFR202050) 5 micron (Prod. code: CFR202051) 20 micron (Prod. code: CFR202052) 1No 0.5 micron supplied with Filter Pot	The Polypropylene filtration media is impregnated with Silver Ions which block the bacterial respiratory system of bacteria thereby destroying the energy production of the cell, leading to the bursting of the cell membrane and neutralising the bacteria. Tested to ASTM 2149. Max working temperature is 90°C.
Automatic Air Vent	Ensures the system micro-bubbles and air are emitted from the system, helps reduce noisy pipework and decreases stress on system components. 304 SS / 110°C / 10 bar MWP
2.1L Dosing Pot Capacity	2.1L Dosing Pot capacity enables installers and maintenance personnel to quickly dose the system with water treatment chemicals



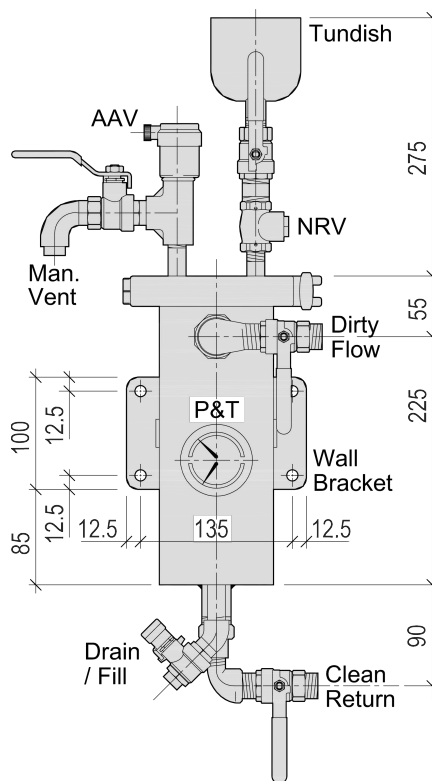
Feature.	Description.
½" BSP Dirty Flow and Clean Return Connections	½" BSP Dirty Flow and Clean Return connections suitable for all types of LTHW heating and cooling water systems up to 20,000 Litres in system volume.
¾" BSP System Fill and Drain Connection	Utilising the System Fill feature with the 0.5micron Anti-Microbial Cartridge Filter reduces the possibility of bacteria, dirt and debris entering the system. Further, the fill feature can also be used to add larger volumes of inhibitor when an external pump is required for dosing. The unique dedicated ¾" Drain Connection ensures the system water is safely drained from the vessel during filter cleaning, leading to faster, safer filter replacement.
Installation	Complete with Stainless Steel backing plate for simple installation to wall or frame (4 x M12 holes).
Servicing	The cleaning of the filters can be simply achieved without the need to shut the main system down. Dosing of water treatment chemicals is achieved safely, again without the need to shut the system down.
Unblockable System	Even if the filters are never serviced the ingenious design ensures that the filter will not inhibit system performance.
Stainless Steel Components	All major components are manufactured from 316SS for longevity, easy cleaning and servicing of the filters.
Pressure / Temperature Gauge	A combined 0 -10 bar Pressure and 0 -120°C Temperature gauge is included on the front of the vessel to give extra reassurance the vessel is empty and safe to open before cleaning the filters.
Full Bore Flat Face Isolation Valves	The 316SS isolation valves do not restrict system flow, decrease corrosion and increases the ease of installation. Thread type to ISO 228-1
Bespoke Insulation Jacket	A bespoke insulation jacket is supplied as standard to ensure heat loss is minimised.
Warranty	Vessel body - 25 years, Valves and Fittings - 2 Years from the date of installation. Refer to the warranty document.



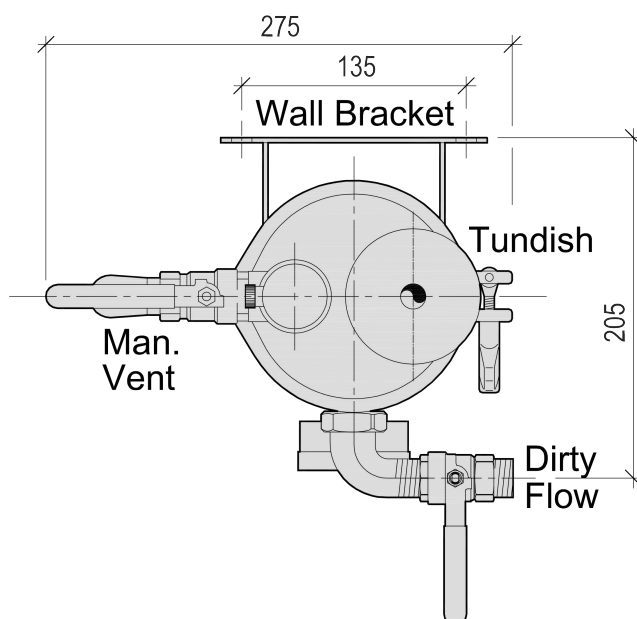
SIDE VIEW



FRONT VIEW



TOP VIEW



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FILTER POT micro

Side Stream Filtration & Dosing Unit

DIRTY FLOW CONNECTIONS:

The Dirty Flow flex pipework is determined by the boiler / chiller output or the total system volume (as below):

RED FLEX	=	{ 85kW - 275kW OUTPUT 1,000 - 3,300Ltrs VOL. }	1. Always connect the BLUE TAGGED hose onto the ½" Clean Return Connection unless a DN15 Connection is required.
WHITE FLEX	=	{ 275kW - 555kW OUTPUT 3,300 - 6,650Ltrs VOL. }	
BLUE FLEX	=	{ 555kW - 1,000kW OUTPUT 6,650 - 12,500Ltrs VOL. }	2. Dependent on the kW rating or the System Volume, connect either the RED, WHITE or BLUE tagged hose onto the ½" Dirty Flow

Affix the correct Flexible House colours (see above and correct sizing) on the positive side of the pump to the Dirty Flow Inlet and always connect the BLUE Flexible Hose from the Clean Return Outlet of the micro to the negative side of the pump unless the system is larger than 1,000kW (12,500Ltrs), see sizing below.

NOTE:

For Systems of:
1,000kW - 1,700kW OUTPUT
12,500Ltrs - 20,000Ltrs VOL.

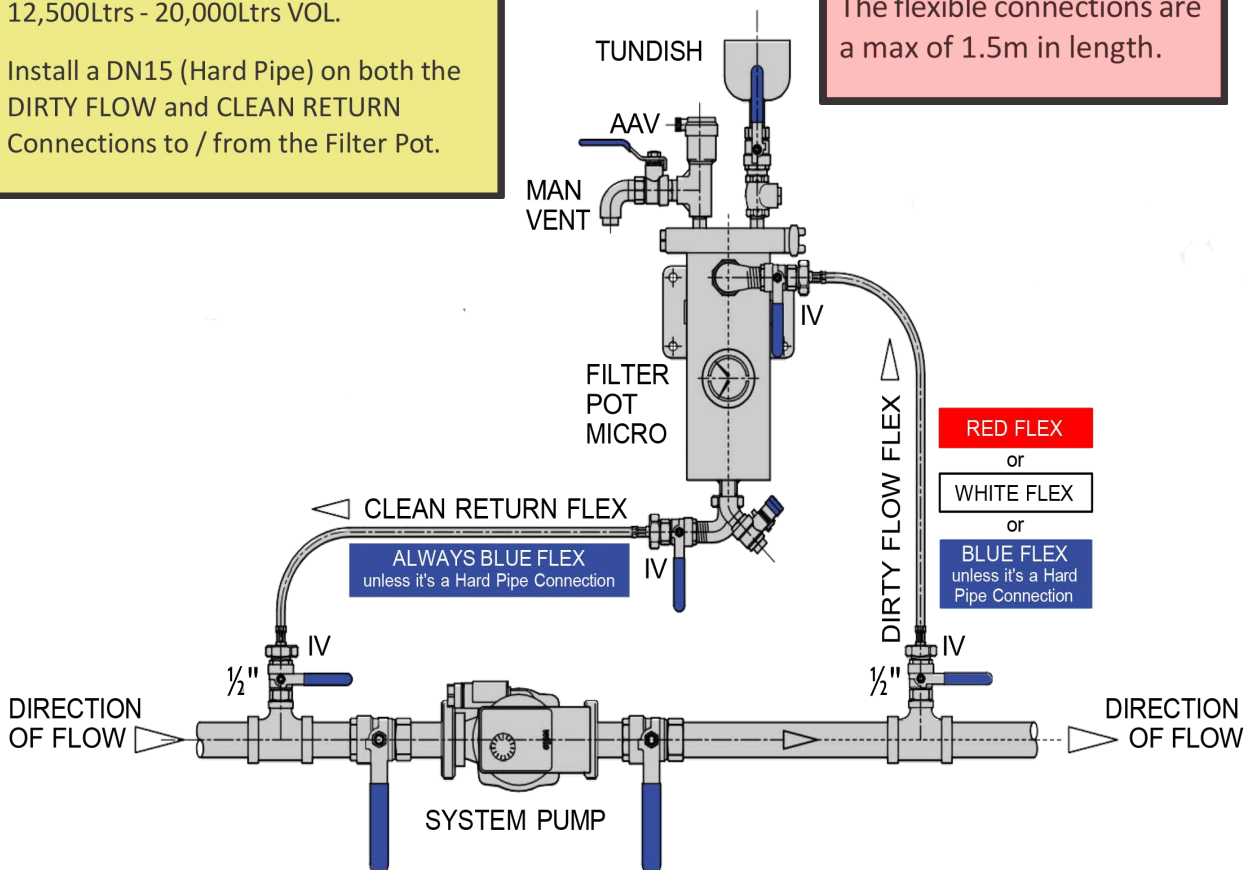
Install a DN15 (Hard Pipe) on both the DIRTY FLOW and CLEAN RETURN Connections to / from the Filter Pot.

NOTE:

It is always recommended to insulate all pipework.

NOTE:

The flexible connections are a max of 1.5m in length.



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