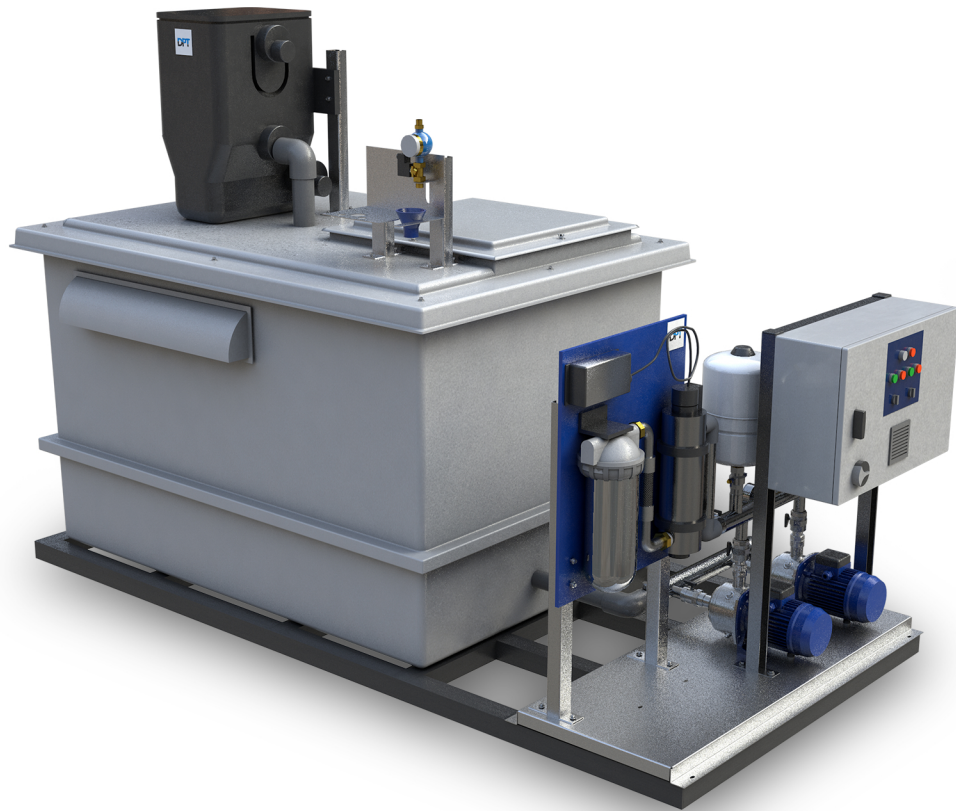




The RainStation

Rainwater Harvesting System



RainStation Overview

The RainStation is a fully contained above ground rainwater harvesting system. The RainStation is designed to collect rainwater and provide a sustainable supply for non-potable applications, such as toilet flushing, urinals, irrigation systems, wash down areas, and many other applications .

The system comes as a complete unit, ready to be installed on-site and comes packed with technology and features such as:-

- GRP WRAS approved enclosure
- Reg4 approved variable speed booster set
- Control panel
- BMS connections
- Compact 5 Micron UV and sediment filter
- Steel skid



Advanced Filtration

The RainStation features multiple stages of filtration. A twin rainwater filter is installed on the top of the system which is designed to filter out larger debris from the collected rainwater.

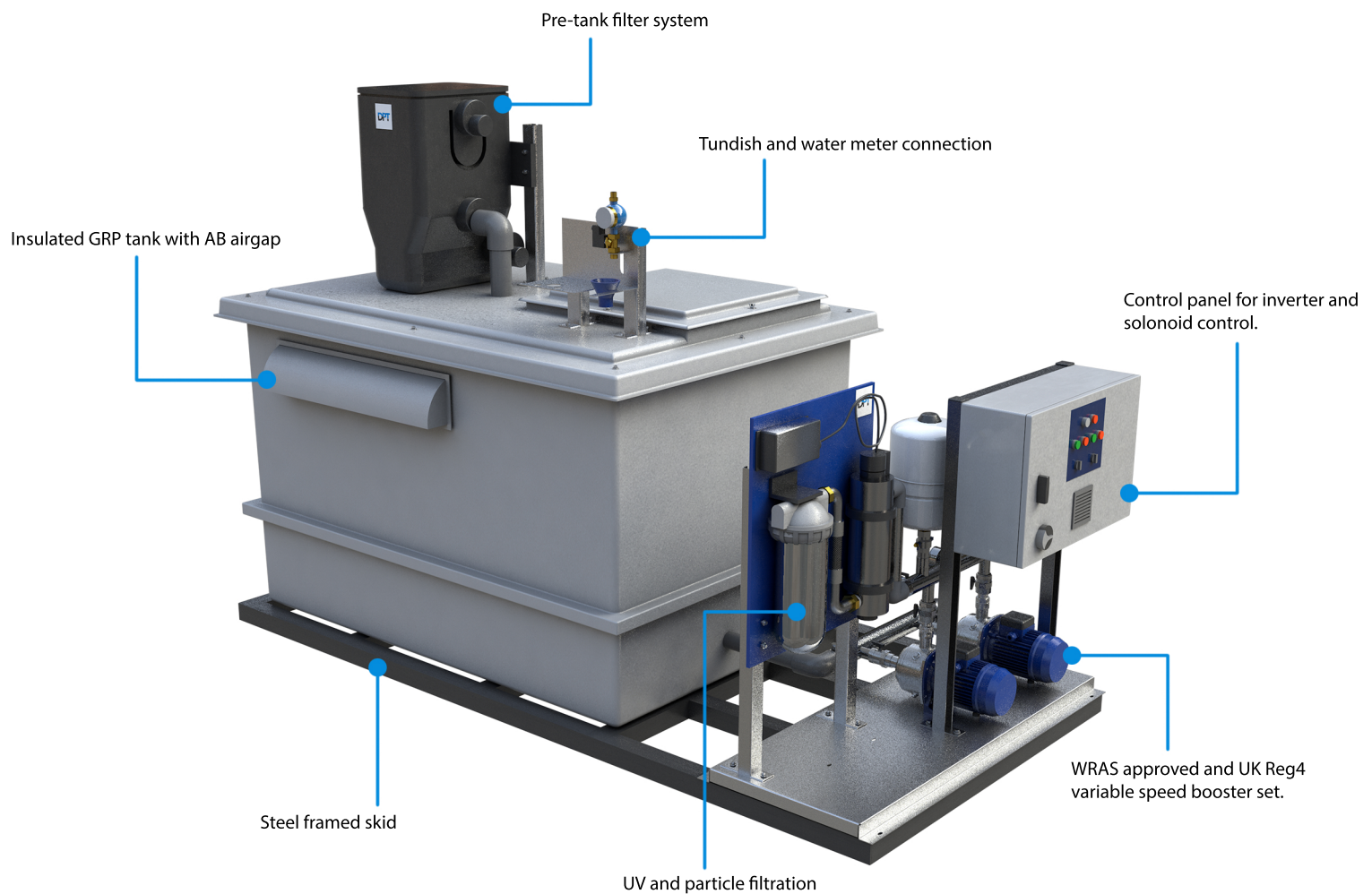
Due to its two step cleaning system, it has a high level of filtering efficiency, independent of flow rate. The steep inclination of the filter cartridge allows the dirt to be continuously cleaned away into the sewer.

A secondary filter is found inside the RainStation, this two step cleaning system features an initial coarse filter mesh that protects the second, finer mesh by removing larger leaves and particles. Both filters are self cleaning, and low maintenance.

The system also features a particulate filter to remove small particles, this is paired with a UV sterilisation system designed to kill 99.9% of bacteria in the water supply.



RainStation features at a Glance



Included booster set

The included Booster Set is a compact and cost-effective cold water booster set ideal for residential, commercial, and industrial applications. Despite its compact design, the Panel Booster Set includes advanced features normally found on larger booster systems including fault signals and error code display as standard.

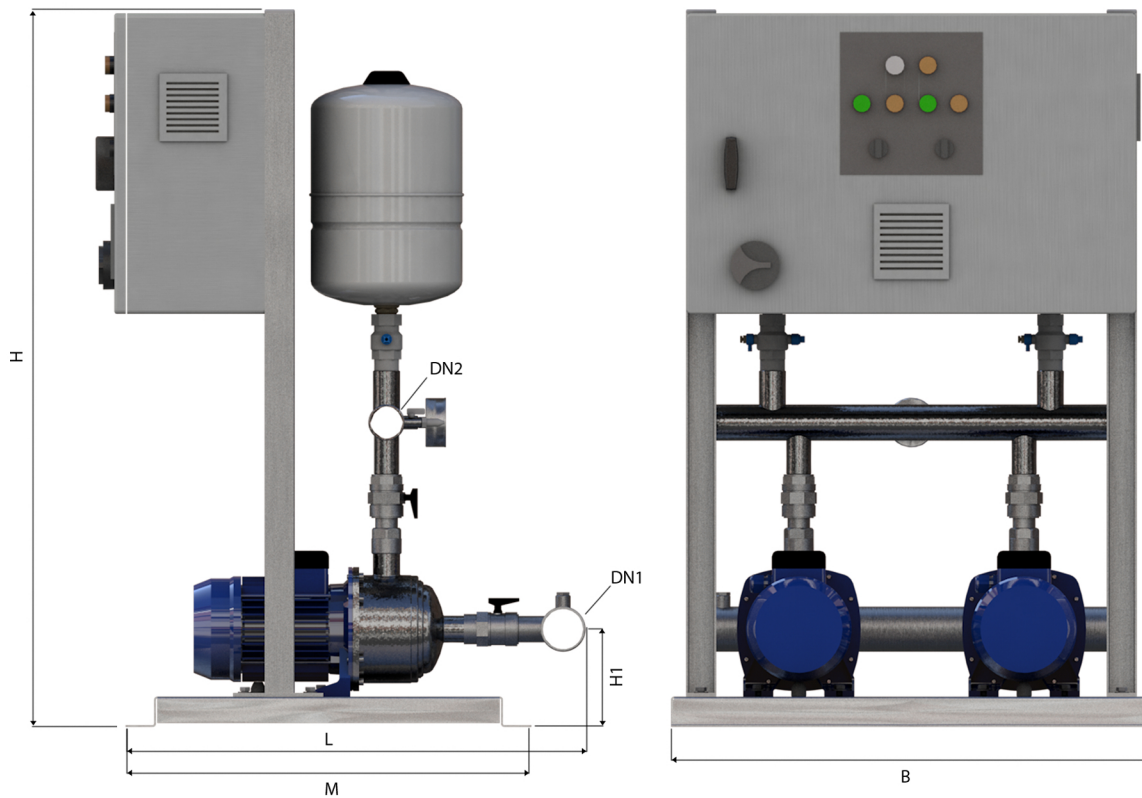
Operation

The included Booster Set uses the variable speed inverter(s) which are installed within the control panel of the booster set. The inverter(s) regulate the rotational speed of the pumps using the electrical frequency. The inverter operates at a minimal value that meets the user's specific demand.

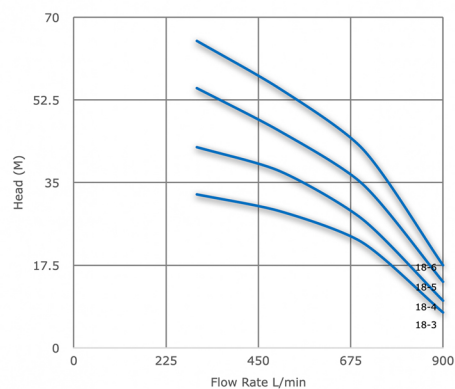
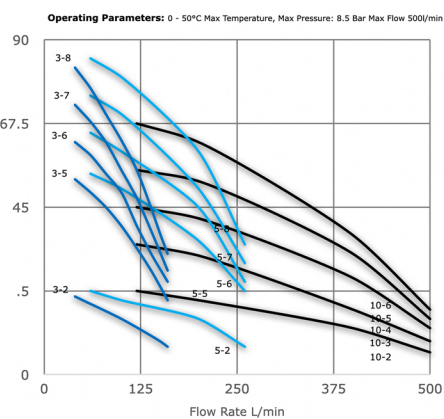
In simple terms, once the pressure drops, the inverter recognises the drop in pressure and instructs the pumps to increase speed in order to meet the proportional demand.

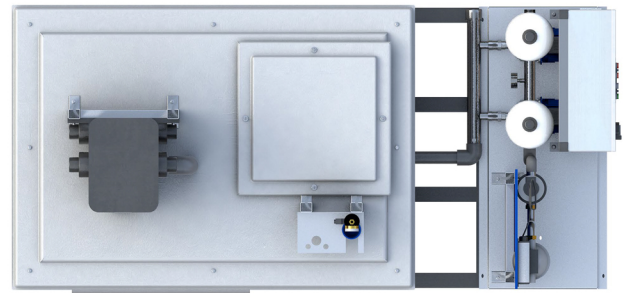
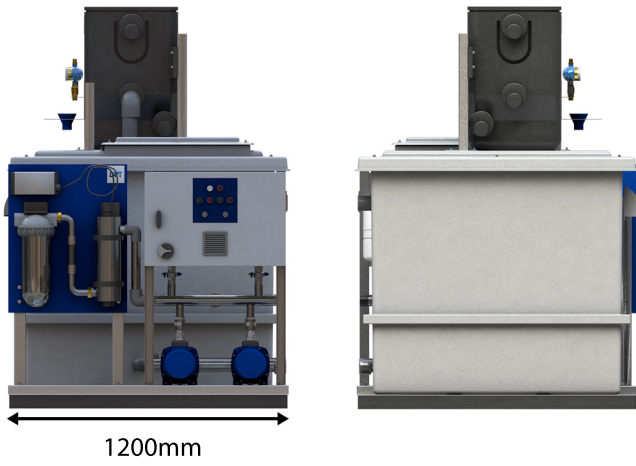
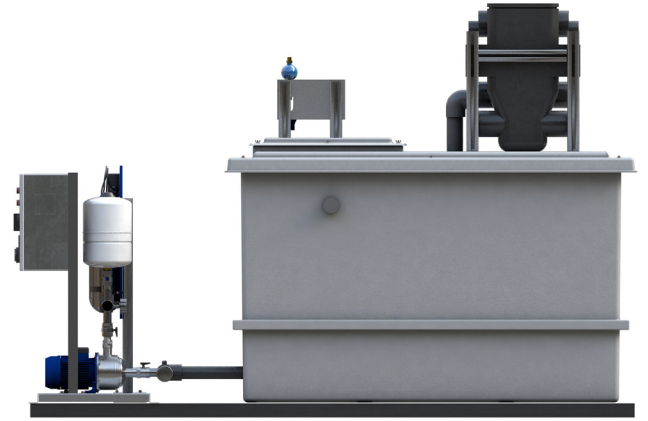
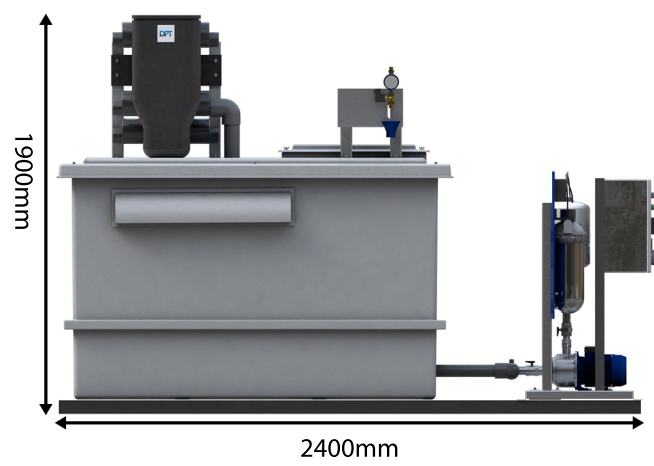
The Booster Set works in a "master/slave" arrangement and shares operational duty in 60 minute cycles, this ensures joint usage across the system.





Model Ref	DN1	DN2	B	H	H1	L	M	Power Supply	kW	HP	FLC (amp)
2RS302/8DPT	2"	1 1/4"	640	900	135	608	540	1x240v	2x0.45	2x0.6	2x2.3
2RS305/8DPT	2"	1 1/4"	640	900	135	656	540	1x240v	2x0.75	2x1.0	2x3.0
2RS306/8DPT	2"	1 1/4"	640	800	135	680	540	1x240v	2x0.9	2x1.2	2x4.3
2RS307/8DPT	2"	1 1/4"	640	900	135	704	540	1x240v	2x1.3	2x1.8	2x5.6
2RS308/8DPT	2"	1 1/4"	640	900	135	728	540	1x240v	2x1.3	2x1.8	2x5.6
2RS502/8DPT	2"	1 1/4"	640	900	135	608	540	1x240v	2x0.45	2x0.6	2x2.3
2RS505/8DPT	2"	1 1/4"	640	900	135	656	540	1x240v	2x1.3	2x1.8	2x5.6
2RS506/8DPT	2"	1 1/4"	640	900	135	680	540	1x240v	2x1.3	2x1.8	2x5.6
2RS507/8DPT	2"	1 1/4"	640	900	135	704	540	1x240v	2x1.5	2x2.0	2x6.3
2RS508/8DPT	2"	1 1/4"	640	900	135	728	540	1x240v	2x2.2	2x3.0	2x8.2
2RS1002/8DPT	2 1/2"	2"	640	950	135	627	540	1x240v	2x0.75	2x1.0	2x3.0
2RS1003/8DPT	2 1/2"	2"	640	950	135	689	540	1x240v	2x1.3	2x1.8	2x5.6
2RS1004/8DPT	2 1/2"	2"	640	950	135	708	540	1x240v	2x1.5	2x2.0	2x6.3
2RS1005/8DPT	2 1/2"	2"	640	950	135	722	540	1x240v	2x2.2	2x3.0	2x8.2
2RS1006/8DPT	2 1/2"	2"	640	950	135	739	540	1x240v	2x2.2	2x3.0	2x8.2
2RS1803/8DPT	4"	2 1/2"	640	1050	135	689	540	1x240v	2x2.2	2x3.0	2x8.2
2RS1804/8DPT	4"	2 1/2"	640	1050	135	708	540	1x240v	2x3.0	2x4.0	2x6.1
2RS1805/8DPT	4"	2 1/2"	640	1050	135	722	540	1x240v	2x4.0	2x5.5	2x8.7
2RS1806/8DPT	4"	2 1/2"	640	1050	135	739	540	1x240v	2x4.0	2x5.5	2x8.7







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