

Post Treatment Unit

The Post Treatment Unit (PTU) is the final unit to complete your Hydraloop Cascade setup. The PTU is a combination of an additional storage tank, polishing and disinfection station, and distribution unit with powerful (single) booster pump. Depending on your building layout, you might need more storage for water, more pressure for your system or a higher quality water.

Using the PTU ensures enhanced water quality, even when the greywater input to the Hydraloop devices might be suboptimal. This creates further stability to the complete system and ensures long-lasting durability of your water recycling system.

In commercial building and large installations with multiple users, there might be substances being put down the greywater line that can compromise the working of the Hydraloop devices. Because the PTU has an additional 2 step filtration through Activated Filter Media (AFM) and Granulated Active Carbon (GAC), and residual disinfection to prevent biofilm growth. This ensures the highest possible recycled water for your non-potable water system.

The PTU has several unique functions, namely:

- **Post Storage Tank;** An internal 210 litre storage tank which will increase the storage capacity of the Hydraloop unit(s) for peak use
- **Polisher unit:** an AFM- and GAC-filter, creating an additional 2 step treatment, delivering a higher quality recycled water (NSF 350-C level)
- **Backflush unit:** the automatic backflush unit means that the quality of the polisher filters stays in optimal condition, ensuring longevity
- **Aeration module:** because of the intermitted nature of recycled greywater, automatic aeration of the AFM filter ensures a lasting quality of the medium
- **Residual disinfection:** By chlorinating the recycled water with a 2 ppm dose, we prevent aftergrowth in the reticulation system by the (already low) residual biological loading of the NSF-350R certified recycled greywater from the Hydraloop units
- **Booster pump:** A DAB Easybox mini3 booster pump provides an 80 l/min flow at a maximum height of 55 m. Great for larger distribution systems