



Microplastic filter system for appliances

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TRL scale



What's needed for?

Microplastic pollution is becoming an increasing concern for the wellbeing of the marine environment and consequently for human health. Currently attempts to reduce the release of microplastics/microfibers from domestic laundering appliances with micrometric mesh filters or washing bags have proven largely ineffective. This patented system approaches the problem by redesigning the entire discharge system of the washing machine, including the centrifugal pump and tube geometry. This innovative system can aggregate microfibers into particles of greater size that will be more easily withheld by a filter, without interrupting the flow of water during draining. This technology can also be applied to dishwashers or washer dryer combos.

Advantages

- Greater efficiency in capturing microfibers and reducing their dispersion in the environment
- Reduced maintenance frequency
- Greater reliability
- Eco-friendly brand reputation of the appliance
- No impact on the quality of the wash

Applications

- Washing machines
- Dish washers
- Dryers
- Washer dryer combos
- Waste water treatment