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Pump Sleeve

The Cedar Filter Sleeve is an external pre-filtration and motor-cooling solution designed for submersible pumps operating in surface water sources and sandy wells. Installed over the pump intake and motor body, the sleeve reduces sediment ingress while also promoting controlled water flow along the motor housing, assisting with motor cooling. This is particularly important in open water and sandy well installations where natural vertical flow past the motor may be insufficient. The tapered cone at the top ensures smooth flow transition into the pump, minimizing turbulence while maintaining consistent cooling flow over the motor. The sleeve helps protect impellers, diffusers, seals, and the motor itself, improving overall system reliability and service life in both solar and grid-powered pumping applications.

The filter sleeve reduces sediment content in the pumped water but does not eliminate sediment completely. Fine particles, dissolved solids, and some biological material may still pass through the filter. In environments with high sediment loads, sand ingress, algae, or organic material—such as sandy wells, shallow boreholes, or surface dams—the filter surface can load up more quickly, reducing both filtration efficiency and motor cooling flow. Regular inspection and cleaning are therefore essential. Under harsh conditions, cleaning is recommended monthly to bi-monthly, while cleaner water sources typically require inspection every two to three months.

Model	Pump Size	Sleeve Diameter	Cone Outlet Size	Filter Rating
4" Filter Sleeve	4" Submersible Pumps	110 mm	50 mm	200 micron
3" Filter Sleeve	3" Submersible Pumps	90 mm	32 mm	60 micron