Marine Sewage Treatment Plant Spares — Biofilter Media, Pump Kits, Sensors and UV Sleeves

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Consumables and service parts for biological marine sewage treatment plants: corrugated-PVC biofilter media by person-equivalent rating, return-sludge diaphragm-pump kits, chlorine sensor cells and UV-C quartz sleeves — what fits what, and how to order for IMO MEPC.227(64)-era plants.

The service economy of a biological STP

Shipboard biological sewage plants — the Hamworthy/Wärtsilä ST series and comparable makes — share a service pattern: the biofilm carrier media ages, the air-driven return-sludge diaphragm pump wears its soft parts, the disinfection stage consumes either chlorine-sensing cells or UV lamps and sleeves. All four groups are catalogue consumables:

Group | Catalogue entries | Selection key |

Biofilter media (corrugated PVC) | 10 PE · 25 PE · 50 PE · 100 PE · 200 PE | Plant's person-equivalent (PE) rating |

Return-sludge pump kits | Diaphragm kit Santoprene · PTFE · Ball-valve kit · Air-motor kit | Pump make/size from the plant manual |

Chlorine monitoring | Sensor cell 0.05–2.0 mg/L | Analyser model and range |

UV-C disinfection | Quartz sleeve 130 W · 200 W | Lamp wattage and sleeve length |

Santoprene diaphragms suit standard sewage duty; PTFE resists aggressive cleaning chemistry. Media is cut to tower dimensions — state the plant type and PE rating from the certificate plate. Related reading: the bilge/OWS MEPC guide for the adjacent compliance system.

Before you order

Plant make, type and PE rating from the type-approval plate (e.g. an ST-series plant certified to MEPC.227(64)).

Which stage: aeration/biofilter, sludge return, disinfection (chlorine or UV).

Pump soft-part material preference where chemicals are dosed.

Lamp/sleeve data for UV: wattage, length, single- or double-ended.

STP consumables are stocked as generic service lines, so lead times are short; certificates for media and UV parts travel with the shipment when requested.

Frequently asked questions
What spares does a biological STP consume?Biofilter media, return-sludge pump kits, chlorine sensor cells and UV-C quartz sleeves for biological STPs are listed on cballast.com — request a quotation with the plant's type-plate data; dispatch is worldwide.How do I choose biofilter media?By the plant's person-equivalent rating (10–200 PE in the catalogue) and tower dimensions — corrugated-PVC media is supplied to suit the certified plant size.Santoprene or PTFE diaphragms?
Santoprene is the standard for sewage duty; choose PTFE where aggressive cleaning agents or solvents reach the sludge pump.Do these parts fit Hamworthy ST-series plants?The consumable groups match biological plants of that pattern; parts are confirmed against the plant manual's pump and disinfection-stage data before quotation.

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