

German Navy - EGV (Type 702)

BIOLOGICAL STKS 300 ONBOARD WASTEWATER TREATMENT PLANT

Task

MARTIN Systems has been contracted to deliver a wastewater treatment system including a separate sterilizer with vacuum plant for the onboard medical station to meet the Navy's updated complex wastewater management requirements.

Ship Details

The "EGV" type 702 combat support ship has the equipment, capabilities and crew to provide a task group composed of various surface combatants at sea with logistic and medical support. The ship's primary logistic task is to supply these warships with POL, consumables, provision, ammunition and to ensure environmentally compatible disposal of sewage and waste.

Wastewater Management

The plant consists of an integrated buffer with an upstream installed fine screen, followed by Biolace® fixed film technology, clarifier and UV thin layer disinfection. The plant operates fully automated and is integrated into the ship's central control systems.



Treatment Capacity

Population Equivalent (PE)	300
Raw water input (m ³ /d)	42,5
BOD ₅ input (kg/d)	25,5

Final Effluent Quality

The final effluent exceeds all requirements given by the IMO (International Maritime Organization), the German "Seberufsgenossenschaft", Germanischer Lloyd and the German Navy.

