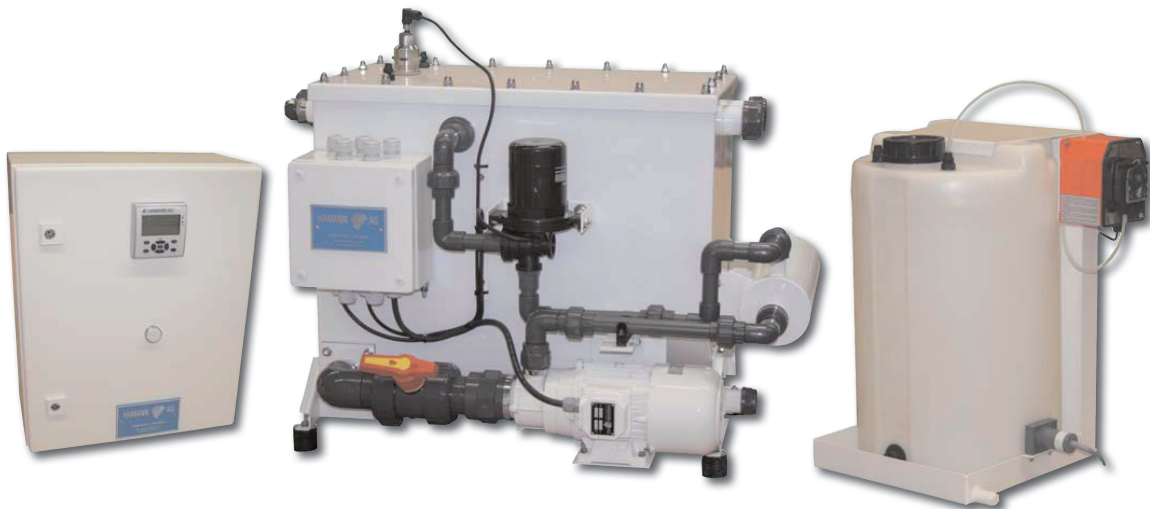




SOLUTIONS FOR A BETTER ENVIRONMENT

THE ORIGINAL SUPER MINI PLUS

Waste Water Treatment according to MEPC 159(55)

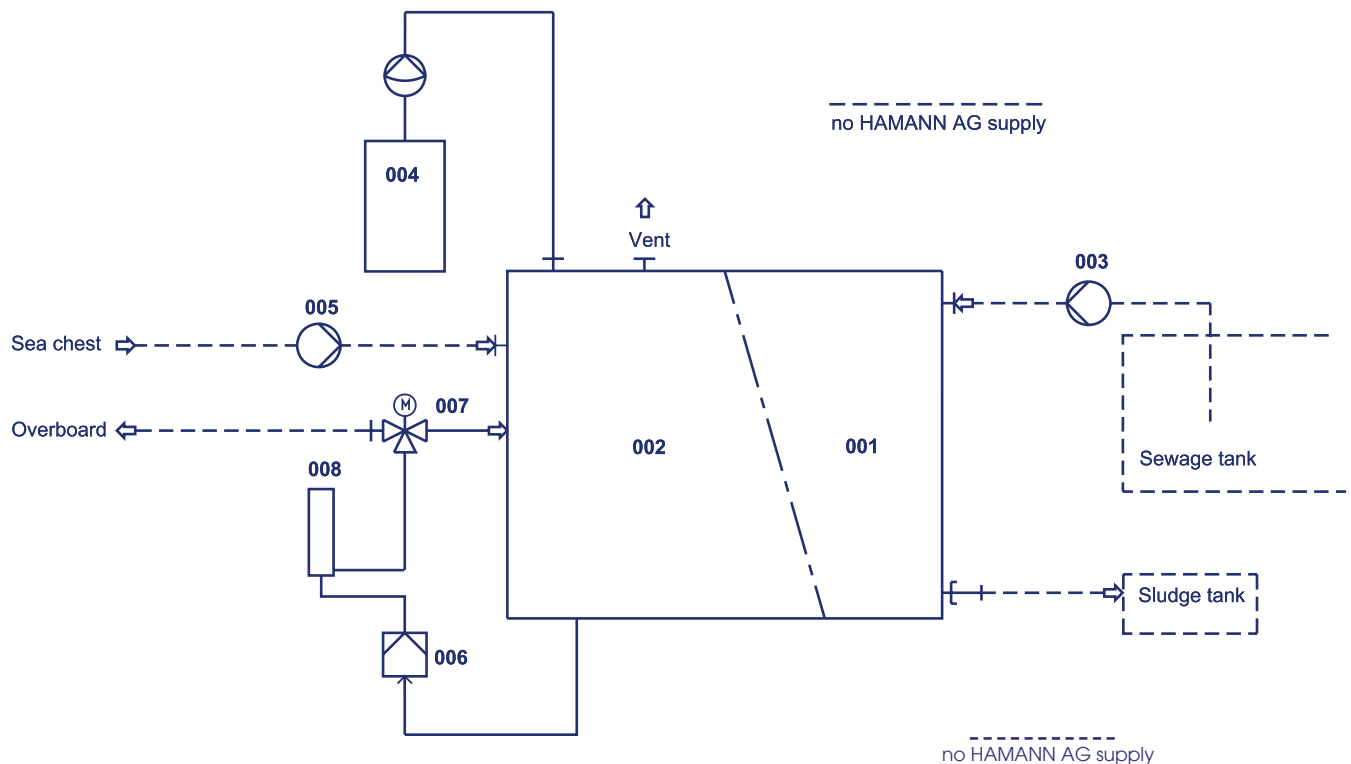


**THE ULTIMATE ANSWER AND SOLUTION FOR ENVIRONMENTAL AWARENESS
& OUR BELIEF IN A CLEANER, GREENER TOMORROW.**

- ▶ Treats waste water produced by up to 10 persons
- ▶ Exceptionally simple, no sieves, no odour, no clogging
- ▶ Extremely small, compact and very low in weight
(LWH: 840x550x660mm, 85kg)
- ▶ Tolerates salinity changes and hard detergents
- ▶ Simple plug & play installation and start-up
- ▶ Certified acc. to MEPC 159(55), MARPOL 73/78, Annex IV
- ▶ Fully automatic system

THE ORIGINAL SUPER MINI PLUS - Waste Water Treatment according to MEPC 159(55)

SUPER MINI PLUS FLOW-DIAGRAM



Scope of supply

001 SEDIMENTATION TANK 30L
002 REACTION & DISCHARGE TANK 65L
003 TRANSFER PUMP
004 CHLORINE DOSING

005 PROCESS WATER PUMP
006 MACERATOR PUMP
007 MOTOR DRIVEN 3-WAY VALVE
008 WHIRLCONTAINER

HOW IT WORKS:

While sewage is being collected in a holding tank, it can be transferred with a transfer pump at regular intervals and specific volumes to the Super Mini Plus treatment plant. When the specific transfer volume has been completed, the plant will start automatically. Once the process cycle is finished, the treated contents will be discharged overboard and the plant will go into standby, ready to receive the next transfer. During the reaction cycle, a dosing pump adds a very small amount of chlorine to disinfect. A sea water pump brings in oxygen rich sea water to assist in oxidation. The macerator pump circulates the mixture and cuts

solids into very small pieces. Through the high turbulence, together with air and chlorine, the sewage will be oxidised and disinfected. After approximately 6 minutes, the motor driven ball valve will turn to allow the tank contents to be discharged overboard.

We are DIN ISO 9001 approved and the HAMANN Super Mini Plus sewage treatment plant is compliant and certified with the new IMO guidelines MEPC.159 (55), Annex IV of MARPOL 73/78.