



PETSEA VAP: SEAWATER DESALINATION SYSTEM BY VACUUM EVAPORATION

THE PETSEA VAP EVAPORATORS ARE DESIGNED TO PRODUCE LESS THAN 5 PPM FRESH WATER FROM SEA WATER. WARM WATER OBTAINED FROM THE JACKETWATER OF A MAIN OR AUXILIARY ENGINE MUST BE SUPPLIED TO THE SYSTEM AS FEED WATER.



AUTOMATIC WORKING

THIS OPERATION IS BASED ON THE PRINCIPLE OF VACUUM DISTILLATION. THE SEA WATER IS BOILED IN VACUUM AT LOW TEMPERATURES IN ORDER TO BE TRANSFORMED IN STEAM. THE STEAM PASSES THROUGH A MONEL STRAINER THAT ELIMINATES ANY DROP OF WATER OR STRANGE PARTICLE, LEAVING ONLY PURE STEAM, THAT WILL PASS TO THE CONDENSATION CHAMBER.

THE FEED AND SEAWATER LEVEL ARE AUTOMATICALLY CONTROLLED BY DEVICES ALREADY REGULATED AT THE FACTORY SO THEY DO NOT NEED TO BE CONTROLLED BY THE USER. THE EXTRA SALTWATER IS CONTINUOUSLY TAKEN OUT FROM THE SYSTEM AND PUMPED OUTSIDE OF THE SHIP.

ONCE THE SYSTEM HAS BEEN STARTED, NO ADJUSTMENTS ARE NEEDED BECAUSE OF THE AUTOMATIC PETSEA VAP FUNCTIONING, STARTING THE FRESH WATER PRODUCTION AFTER SEVERAL MINUTES. THE FRESHWATER IS SUCTIONED FROM THE EVAPORATOR AS SOON AS IT IS PRODUCED AND PUMPED TO THE FRESH WATER TANK BY MEANS OF A PUMP DESIGNED TO WORK 24 HOURS A DAY.

HIGH QUALITY MATERIAL

USING NO FERROUS MATERIAL ALLOWS US TO PRODUCE CLEAN AND FRESH WATER AND BECAUSE OF ITS SOFTNESS THIS WATER CAN BE USED FOR THE COOLING ENGINE SYSTEM, DRINKING, COOKING AND ANY KIND OF USE.