

## Naval hydroponic system as a reflection of humanization of life and work spaces in marine habitat

**The extreme living spaces of modern man illustrate the loss of balance between the biosphere, created by the slow process of evolution, and the technosphere shaped by our civilisation.**

Emphatic examples of such distraction is daily life in places such as naval ships, oil rigs, drilling platforms and floating refineries. Although existing conventions regulate conditions under which they work, they are created mostly to maintain the safety of a ship - a valuable working tool. Due to this, a psychophysical condition and comfort of the crew is not a decisive factor in ship design as far as economical and safety factors are considered.

This forces man to adapt to the machine - not the other way around. It remains a fully industrial environment, providing the space necessary to perform work, but enabling just a minimum of

strength recovery for the crew required to continue the indicated tasks. The naval hydroponic block (NHB) proposed by this project is one of the possible tools for "humanising" the marine habitat. It allows the introduction of biologically active tissue into the previously inanimate industrial world.

As a comprehensive system solution integrated with the wall lining panels, it meets all the standards by which ships are currently designed. It is manufactured industrially and using generally available marine technology.

The implemented solutions allow for the execution of several finishing versions and their multiplication in one panel/room extent. NHB could be widely used in marine environments, becoming a testimony to the "ecological modernity" of ships and incorporating modern design trends •

