

# ENERGY SOLUTIONS

## ES LOADBANK - Optimising generator loading for Super Yachts



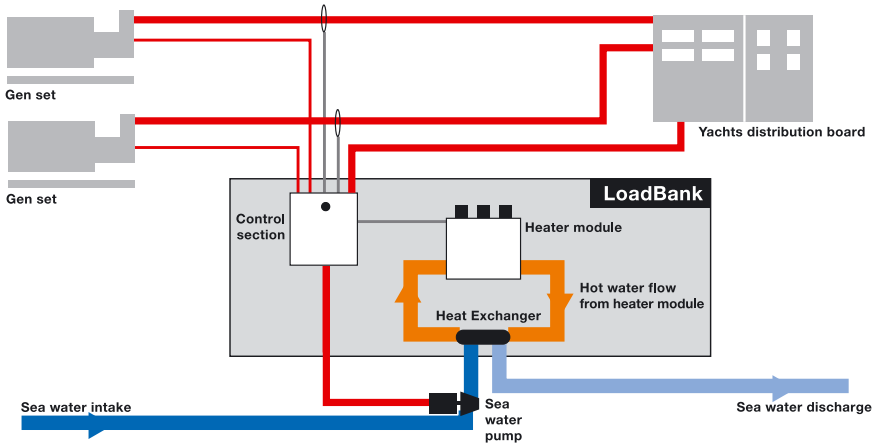
### ES LOADBANK - Optimising Generator Capacity

- Giving longer life to generators
- Keeps generators running clean
- Can be linked to any make of generator

POWER AT YOUR CONTROL

# ES LOADBANK

**ES LOADBANK - Integration Diagram**



## Technical Details:

The generator's load can be balanced across the phases.

Programming facility for target loads.

Can receive analogue control input from existing yachts power control system is required (0 - 10V)

Suit any configuration of generators. Standard unit rated at 80Kw. For higher load requirements multiple units can be used.

Can be linked to any make of generator.

Max dimensions:

Height 780mm Width 853mm Depth 790mm

## Options:

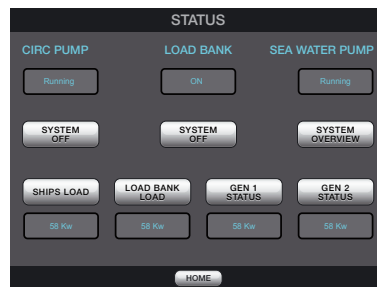
Touch screen panel for control and monitoring

Flow switches – to monitor raw water cooling circuit



**LCD Touch Screen Control panel**  
(optional extra)

To go in control room for remote monitoring of all aspects of LoadBank setup and status.



## ES LOADBANK - Optimising Generator Capacity

Sizing generators for large sailing and motor yachts is a difficult job. Large variations in onboard power requirements between different seasons, different times of day, and periods with and without guests make for substantial power requirement swings.

Often, despite the very best engineering practice, the yacht will be operating the generators lightly loaded. To address this problem the Energy Solutions' in-house design and engineering team have developed the new ES LoadBank to be used with generators that are running under capacity.

In order to get the maximum life expectancy from a generator it should ideally run at sufficient load to ensure clean running. When a generator runs under capacity it's working life is cut short and the generator runs with soot emissions. The ES LoadBank is a sophisticated generator loading system that ensures that a sufficient base load is applied to the

generator at all times. It uses electrical heaters as a load and this heat is discharged overboard via heat exchangers. The principle is simple – the control is sophisticated.

## Energy Solutions

Energy Solutions are based in Rochester, Kent UK and are specialists in marine power and panel building. With an in-house research and design team, specialist engineers and a full technical back up team, they have established a reputation for innovative quality products. The ES LoadBank is built by their in-house engineering team and supplied to superyachts worldwide.

## Technical Consultation Service

Energy Solutions offer a complete technical and installation consultation service with the ES LoadBank. Giving on-site assessment and evaluation to ensure a smooth installation.

Dealer:

## ENERGY SOLUTIONS

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