

Marine waste & waste water Design checklist for Naval Architects

Avoid specification lock-in, reduce lifecycle cost and ensure design flexibility in early design phases



Reduce
lifecycle cost



Avoid design
lock-in



Ensure system
flexibility

CHECKLIST

1. Specification strategy

- Have you defined performance requirements instead of fixed components?
- Have you allowed for equivalent solutions across suppliers?
- Have you avoided brand- or model-specific specifications too early?

2. Layout & integration

- Does the system fit within the available footprint?
- Is there sufficient access for installation and maintenance?
- Have piping, ventilation and structural constraints been considered?

3. Lifecycle considerations

- Have you evaluated 5-year operating cost (OPEX)?
- Have fuel, energy and utility consumption been assessed?
- Have maintenance and service intervals been considered?

4. Project phase alignment

- Is the specification aligned with the current design phase?
- Have suppliers been consulted before final specification freeze?
- Is there flexibility for optimisation in detailed design?

5. Incinerator system considerations

- Can the system operate without external sludge pre-heating?
- Does the design minimise auxiliary components (e.g. tanks, fans)?
- Is the system optimised for installation simplicity?
- Can it handle variable waste compositions (e.g. high water content)?

6. Wastewater treatment considerations

- Is the system suitable for available space and retrofit constraints?
- Have biological performance requirements been matched with operational conditions?
- Is there sufficient access for service and inspection?
- Have discharge and environmental compliance requirements been addressed?



Need input on your current design?

Atlas Incinerators and G&O Bioreactors support naval architects in early design phases with:

- Technical input on specifications
- Layout and integration guidance
- Lifecycle cost optimisation

Contact us to discuss your project

Atlas Incinerators – Part of G&O Maritime Group

 +45 55 34 66 55  atlas@atlasinc.dk  atlas.gomaritimegroup.com

G&O BIOREACTORS – Part of G&O Maritime Group

 +45 61 61 02 65  bioreactor@g-o.dk  bioreactors.gomaritimegroup.com