

HVACCN

DNV Compliance in Marine HVAC Systems

Professional Technical White Paper

Executive Summary

Marine HVAC systems play a critical role in crew comfort, safety, and operational efficiency. Compliance with DNV, SOLAS, IMO and international standards is essential for modern vessels and offshore facilities.

About HVACCN

HVACCN is a global HVAC equipment and engineering solutions provider specializing in AHUs, ventilation fans, chillers, filters, fire dampers, heat exchangers and technical support.

DNV Requirements

Key compliance areas include ventilation, fire protection, electrical safety, equipment certification, documentation and testing.

International Regulations

DNV Rules, SOLAS, IMO Guidelines, ISO Standards and IEC Standards form the basis of marine HVAC compliance.

Marine AHU Compliance

Marine AHUs should be corrosion resistant, maintainable, properly drained and suitable for marine vibration and environmental conditions.

Marine Ventilation Systems

Applications include accommodation spaces, machinery rooms, cargo areas, technical rooms and galleys.

Fire & Smoke Protection

Fire dampers, smoke dampers, insulation and emergency shutdown systems are critical compliance requirements.

Galley HVAC Systems

Proper heat extraction, grease management, make-up air and odor control are essential.

Engine Room Ventilation

Ventilation systems must provide combustion air, cooling airflow and personnel protection.

HVAC Control Systems

Modern systems integrate PLC control, alarms, monitoring and energy management.

Testing & Commissioning

Airflow balancing, FAT, SAT, safety testing and performance verification are required.

Documentation Package

GA drawings, HVAC layouts, calculations, certificates, manuals and test reports.

HVACCN Product Portfolio

AHUs, Ventilation Fans, Chillers, Heat Exchangers, Fire Dampers, Filters and Spare Parts.

Why HVACCN

Engineering-focused, global supply capability, technical expertise and responsive customer support.