

Offshore Accommodation HVAC principles

The basic principles. Clean air from a non-hazardous area is filtered and ducted to the supply HVAC skid where the air is cooled to knock out water, then heated to the required temperature and finally humidified by the injection of steam. This conditioned air is then distributed to cabins.

Design and Interface Issues

The following elements will be considered during the design and specification of an HVAC system:

- Designing for a saliferous (salt laden) environment primarily using stainless steel for ductwork and packages.
- Designing for high wind loadings (circa 100mph) on exposed ductwork and packages.
- Designing for explosion blast overpressure.
- Integrating non-standard electrical requirements for packages.
- Including equipment for regulating humidity of the air supply to avoid sore throats and dry eyes from low relative humidity.