

JOB REPORT



ÅSGARD A CONTAINERISED AHU'S



Year : 2012
Project Name : Åsgard A Topsides Modification
ATC project no. : 2775

Size (L x W x H mm) : 5200 x 1400 x 2600 (largest unit)
Weight (kg) : 5115
Materials : 1,5 mm stainless steel AISI 316L, supply unit insulated with 50mm mineral wool.

Project Description / Challenges:

3 specially designed containers to house ventilation equipment, forming Air Handling Units which were to sit externally on the top deck in an exposed location.

The units had to be designed to handle transport, explosion and wind loads, be fully watertight.

Access to components to enable simple material handling was an important issue, resulting in many inspection doors and hatches, all which had to be lockable in the open position, due to the severe wind offshore.

Fans were mounted on special slide rails with rollers under the support frame to simplify removal of the largest components from the units.

Penetrations and MCT's were installed in the walls of the containers and the main supply duct had to be under the Air Handling unit, giving an extra challenge to the designers.

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Scope of Work:

ATC's scope of work included detailed layout and construction drawings, structural calculations, production of the containers.

Outfitting was performed in ATC's workshop in Dal, close to Gardermoen airport and included components such as inlet louvre, filters, fans, dampers, piping for the dampers, attenuators, lighting, internal cabling and both internal and external cable tray.

ATC also assisted the client with mechanical completion and testing and performed weighing, including centre of gravity, using electronic weight cells.



Inlet plenum with lighting and shut off dampers



Main inlet section, showing access to filters



The main extract unit showing the development from the 3D model to the final product