Job report

HVAC CONTAINERS

STATFJORD LATE LIFE PROJECT

OUR CLIENT AkerKværner Offshore Partners
OPERATORS STATOIL


Statfjord B

DESCRIPTION OF THE PROJECT

Statfjord Late Life Project (SFLL) was a modification project to adapt Statfjord B and C to a new mode of operation as the well-head pressure drops.

CHALLENGES

Lack of space available meant the new Air handling units had to be placed outside on the edge of the existing platforms. This is an extremely exposed location with restricted maintenance space.
Max lift due to available crane capacity was 17 000 kg, limiting size and max weight of containers.
Low sound requirements required, performance of containers had to be guaranteed.

SOLUTION

Novenco chose to build custom made stainless steel containers, with a maintenance/inspection corridor inside the container.

In addition to the intake drop separators, fans, coils, filters and dampers, the containers also included frequency control panels and 3 port valves with pneumatic actuators for the heating and cooling coils, piped up to the outside of the containers.

The containers included lighting, smoke detection, gas detection, loudspeaker system and alarms.
The containers were provided with runway beams and portable Light Crane system if removal of major equipment such as fans and motors should be necessary.

The containers and associated ductwork system with attenuators were full performance tested for air volume and sound levels prior to delivery.

ADVANTAGES

- No need for detailed layout at early design stage, delivery time becomes non-critical if container is placed on roof.
- Container can be delivered late in the installation process.
- Minimum mechanical, electrical, piping and structural hook-up, reducing total installation time.
- System is fully performance tested and commissioned at factory, before delivery to client. Minimum site commissioning.
- Extremely rigid solution, ideal for exposed outdoor location.
- Total responsibility for system supply can be placed on one supplier.
- Equipment in the container can be serviced and maintained from inside the container, in safe and comfortable environment.
- Win-win solution.

With total control over in house production, this gives us a unique advantage over most competitors.

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TECHNICAL DESCRIPTION EQUIPMENT

CONTAINERS

Purpose built, fully welded Stainless steel 316L, double skin insulated with large hinged maintenance doors.

FILTERS

First stage: EU 6 replaceable pocket type.
Second stage: EU7 CAM GT cassette type filters.

FANS

2 x 53,000 m^3/hr (100 % back up). 'Plug' type, stainless steel AISI 316 with mild steel impeller, direct driven.

FAN MOTORS

2 off 63 kw Zone 1, Eexd, IIB T4 rating, controlled by frequency converters.

HEATING COILS

2 off 500 kw coils, Stainless steel tubes, headers and fins.

COOLING COILS

2 off 325kw coils, Stainless steel tubes, headers and fins drop eliminators after the coil to prevent condensate carry over. Coil assembly is mounted on top of an AISI 316 drip tray fitted with 2 inch drain connection.

From Novenco production

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