

ES1002 501 compressor wash system

Extend operational life and avoid unit non-availability for compressor soak washing



Engineered solution purpose

By installing a 501 compressor wash system, the operator can experience increased intervals between engine turn-down to perform soak washing.

Applicability

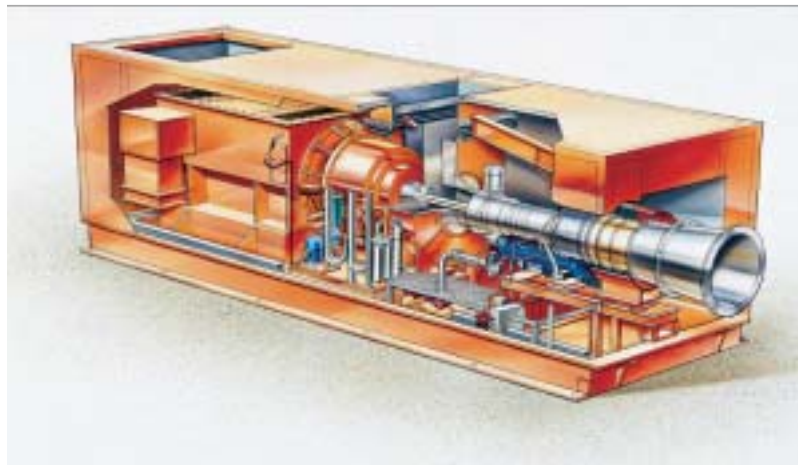
All 501 engines

Technical description

The 501 inlet plenum is modified to add nozzles and a manifold to facilitate the online wash capability. The compressor wash system itself is designed for use while the 501 unit is operating at load. By trending engine performance over a period of time, the optimal wash schedule can be determined.

Benefits

This engineered solution will extend the life of the 501 compressor whilst maintaining engine performance and heat rate. By reducing the need for engine crank soak washing, a procedure that takes 4 hours to complete, unit availability will be increased.



Experience

The 501 compressor wash system is installed on hundreds of units throughout the world.

Scope of work

Install nozzles for correct atomisation of washing fluid.

Install compressor wash manifold.

Establish supply of water [conforming to EMS 124D].

Stainless steel wash system (either mobile or permanently installed).

Some modification of the control system may be required.

Bill of materials

Nozzles

Water conforming to EMS 124D

Stainless steel wash system.

Control system modification (if required)

Undertaken

At site

Bundling opportunities

Controls Upgrade [ES6006]

Inlet Air Filtration System [ES6003]