

Safety Alert – AE-SAS-012

Airoduster Compressor Motor

Event

ITW issued a safety Alert as the owner of the IP for the Airoduster.

Alfabs as the Manufacturer of the Airoduster is addressing the initial ITW safety alert.

It was found that the compressor motor is working above 4kW because the hydraulic motor that is being governed by the relief valve directly mounted to the inlet port of the motor is not in operation due to the internal configuration of the motor.

The relief mounted to the inlet ports of the motor only works on one port, which in the current configuration of the motor is on the tank side of the motor. Therefore not relieving anything and thusly not governing the motor to below 4kW's.

Potential Risk

There is a potential risk that the compressor could run over 4kW's. Resulting in the compressor becoming hot.

Recommendations

ITW recommended standing down the AiroDusters.

Alfabs Recommends that the motor is changed out at the next convenient service interval.

There are currently 16 Airoduster's working in the field of the same design and configuration. Working for 5 years with limited issues.

In 2019 a heat test was conducted on the compressor outlet to determine if there could be any potential heat risk whilst using the current design and choice or brand of compressor. No significant heat was found.

Upon the motor change out the pressure relief valve is checked and set to 90 Bar.

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Documentation

SWP for Changing Out the Airo Duster Compressor Motor
Change Management – Airo Duster Compressor Motor
Design Risk Assessment – Airo Duster Compressor Motor
Heat Test Report
ITW Safety Alert

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			Page 2 of 2