

Custom low-temperature motor purge systems

Working with a leading high voltage motor manufacturer to develop motor purges for challenging conditions



Overview

The client is a leading manufacturer of high voltage electric motors, based in Korea, and specialising in oil & gas, power generation, and steel manufacture. They contacted Expo because of the challenging nature of this application.

Project Brief

To develop an upgraded version of Expo's standard D760 Low-Temperature Motor Purge system for a gas compressor application where local conditions might prove challenging for the standard Expo system. A total of 6 systems were required.

Challenges

- Very low-temperature ambient conditions
- The on-site instrument air supply suffered from intermittent low-pressure issues
- Stringent regulations within the EAC certification system requiring certified metrology equipment

Solution

- Building on the standard D760 system, Expo sourced equivalent pressure gauges and temperature sensors that carried EAC certification in line with the appropriate technical regulation (TR-CU). This created a new EAC variant that fully met the local requirements.
- One of the systems was extensively tested across a range of instrument air pressures and the performance was found to be within spec. based on the characteristics of the local air supply. This permitted Expo to provide a declaration that the systems would perform as required.

Expo Products and Services



Motor Purge Systems

Expo Technologies is the world leader in protection systems for large electric motors and generators. With the largest installed base of any manufacturer, we are a trusted partner to most of the world's leading manufacturers.

Building on the range of motor purge and pressurization systems for standard temperature, Expo have developed special systems for low temperature service as low as -60°C ambient.

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