



Infrared Heat Helps Maintain Pressure in Natural Gas Distribution Networks

Open Grid Europe, one of the largest gas network operators in Germany, maintains a network of approximately 12,000 kilometers with 29 compression stations. These compression stations maintain pressure within the distribution network. Pipelines transport gas over very long distances, causing pressure losses during transport. This pressure must be restored and, consequently, compressor stations are integrated into the network at regular distances.

Generally, these stations consist of a gas turbine and a compressor. The air required for combustion is taken in via filter systems and the compressor is powered by the combustion of air and natural gas in the turbine.

The newly re-compressed gas is then fed back into the network. To ensure trouble-free operation, Open Grid, the compressor stations must operate continuously and making it essential that the filter systems must be protected against icing. Infrared heating is a proven anti-icing technology and for that reason the Excelitas infrared system was selected by Open Grid.

Thirty-two IP65 modules form the core of the system and the IP65 special emitters are located under the turbine filters on a trolley. They apply heat from below to prevent the filters from freezing during cold and damp winter weather conditions, ensuring reliable operation. The IP65 module is both spray- and dust-resistant, preventing any ingress of water, making it the ideal solution for this and other open-air applications.

FEATURES

- IP65 modules provide reliable outdoor operation
- The turbine pot filter is kept free of ice
- Energy savings
- IP65 modules are both spray- and dust-resistant

TECHNICAL DATA

- 32 IP65 modules, each with a nominal power output of 4 kW
- Medium-wave infrared emitters
- Mobile system provides easy access to both sides of the filter system

