

Start listening to your heat exchanger -- Smart data application enables insight into process equipment

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ARVOS GmbH | SCHMIDTSCHE SCHACK a Division of ARVOS Group is a leading designer and fabricator of process heat transfer equipment for the chemical, petrochemical and metallurgical industries. All of those heat exchanger applications have in common that they are integral components of the production process and improve the economics of the plant operation.

Since the focus of the operator is onto the process itself, standard sensor installations are located to monitor and control the process flows. The status and condition of the heat exchanger is derived by measured data up- and downstream the equipment and is based on individually experience of the operator. In addition regular inspections are conducted.

ARVOS GmbH | SCHMIDTSCHE SCHACK launched a product improvement to equip the heat exchangers with additional sensors from which smart data are derived. This IoT solution is based on proven cloud technology and is adaptable/flexible to various customer requirements. It also makes use of machine learning algorithms in order to allow predictions for different parameters.

All those smart data will be used to generate regular operation and health reports for the process heat exchanger, which provide the customer a deeper insight into his equipment and finally enhance the equipment availability.

The presentation discusses the IoT set-up and smart data results and describes further applications.