Air Products Smart Food Freezing Technology

Real-Time Monitoring and Optimization of Your Food Manufacturing Processes

Control your food manufacturing processes anytime and anywhere

Air Products Smart Technology uses sensors and wireless technology to optimize your process and track key parameters. Our self-monitoring analysis allows customers to see data in real-time, which can help maximize efficiency, productivity, sustainability, and more.
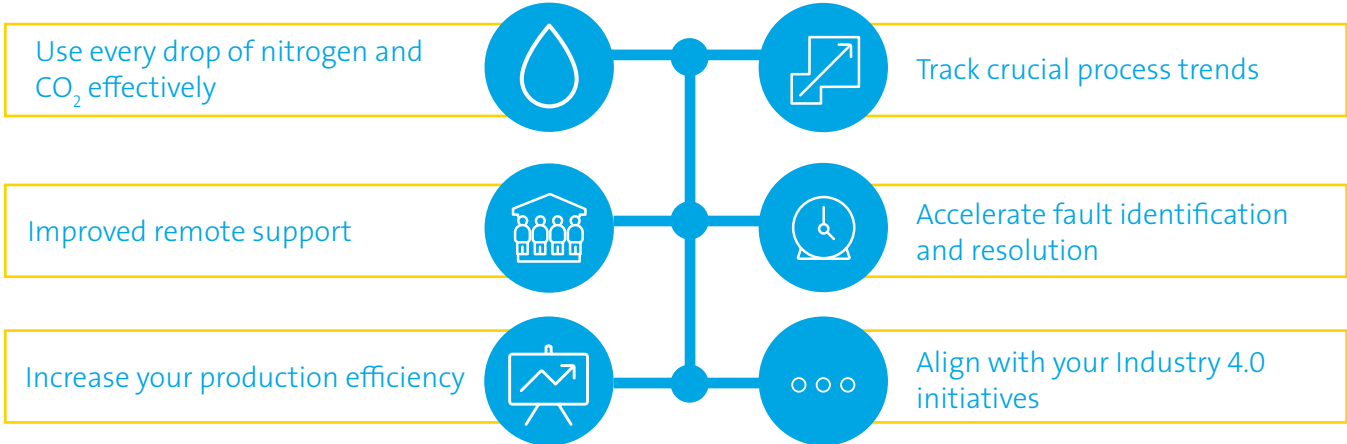
Improve your operations with the following features:

- **Automatic Daily Reports**: Your time is precious. That's why, our customizable report includes key data points and system performance information that can be generated and emailed to operations and product managers automatically.

- **Real-Time Notification Services**: In the event of a fault or unforseen incident, our system has a real-time notification service in place to notify your team. Automatic email and text alerts will be sent with the most accurate and up to date information.

- **Online Data Access**: Access real-time and historic data from freezers, tanks, and other equipment anytime and anywhere. Our team will monitor your data to help you better maximize CO_2 or liquid nitrogen usage and improve efficiency, productivity, and sustainability.
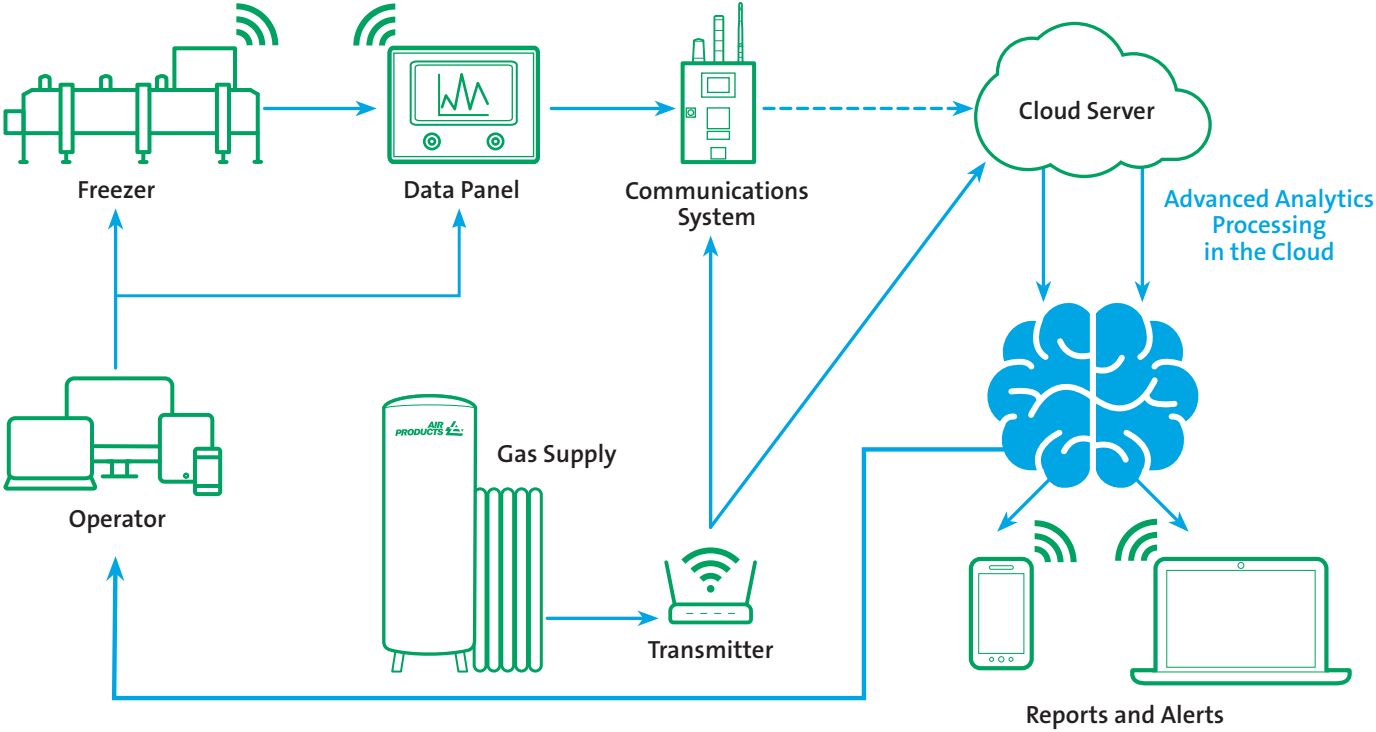
Enter the world of SMART cryogenic freezing with Freshline® Smart Technology

Freshline® Smart Technology revolutionizes the level of convenience, efficiency and control offered by current cryogenic freezing processes.

Key benefits of Air Products Smart Technology:

Use every drop of nitrogen and CO_2 effectively

Track crucial process trends

Improved remote support

Accelerate fault identification and resolution

Increase your production efficiency

Align with your Industry 4.0 initiatives

Freshline® Smart Technology Platform

Freezer

Data Panel

Communications System

Cloud Server

Advanced Analytics Processing in the Cloud

Operator

Gas Supply
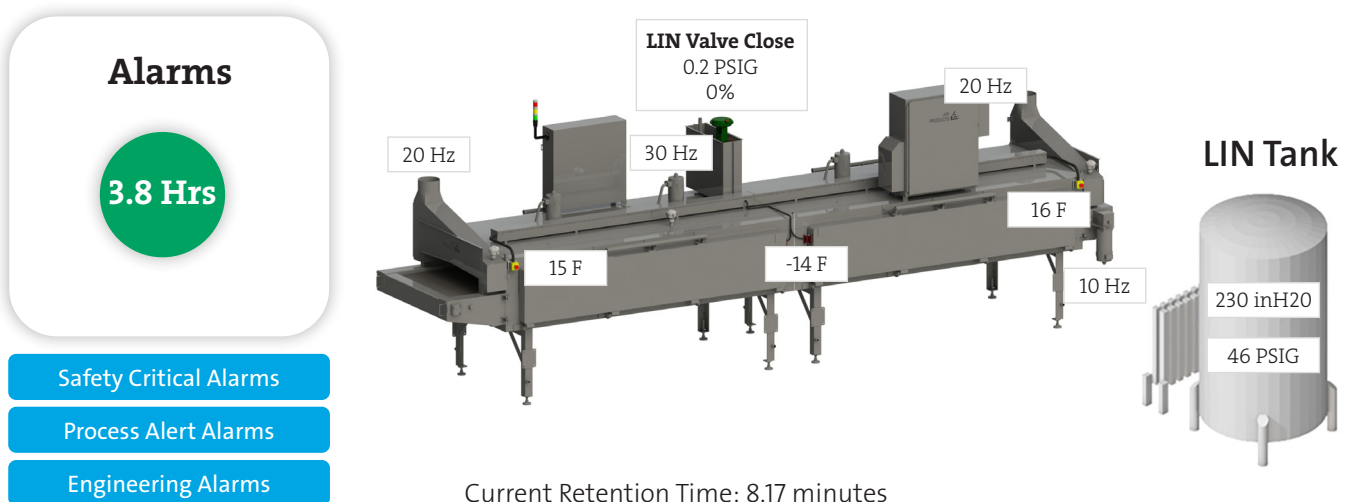
Transmitter

Reports and Alerts

Customizable plans to meet your needs

Our Commercial Technology team offers a tiered based monthly subscription service that allows customers to create a customizable plan that's best suited to them and their operations. Air Products Smart technology uses a combination of sensors and proprietary hardware to send your process data to our secure cloud-based server. Once stored, the data is available for real-time and historical viewing, as shown below.

Air Products Smart Technology provides access to a live dashboard of your freezer model. Easily view your freezer's data in real-time. All data is securely stored in our cloud-based server.

Freshline® IQ Freezer — Current Mode: at Rest/Manual

Alarms

3.8 Hrs

Safety Critical Alarms

Process Alert Alarms

Engineering Alarms

LIN Valve Close
0.2 PSIG
0%

20 Hz

30 Hz

20 Hz

16 F

15 F

-14 F

10 Hz

LIN Tank

230 inH20

46 PSIG

Current Retention Time: 8.17 minutes

Customized Smart Technology solutions also available for other freezer types (MP, IQ, IQF+), mixers, and more.

Success Story

"The data has already helped us make strategic business decisions, such as discontinuing a product and swapping one of the small tunnels for a medium one to provide extra capacity – as it was obvious both were costing the factory money. Without Air Products Smart technology, we'd never have known this."

Rob Wilson
Continuous Improvement Manager, Espersen

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GENERATING A CLEANER FUTURE