

Case #6: Engineering

Objective

Developed a self-contained, universal and cost-effective heating system for incubation rooms for the food industry.

Obstacle encountered

- Required quick response of the heating element to the heating cycle control in order to ensure minimal amount of the residual heat following disturbance to the incubation area, such as open door.
- Difficulty ensuring a uniform temperature profile and a consistent process control loop utilizing solely a heating load.

Advancement that was made

They developed a heating system for the incubation rooms to replace the existing air handling units and maintain uniform temperature profile at 42 degrees Celsius.

Example of evidence

- Drawings
- Emails
- Notes
- Samples