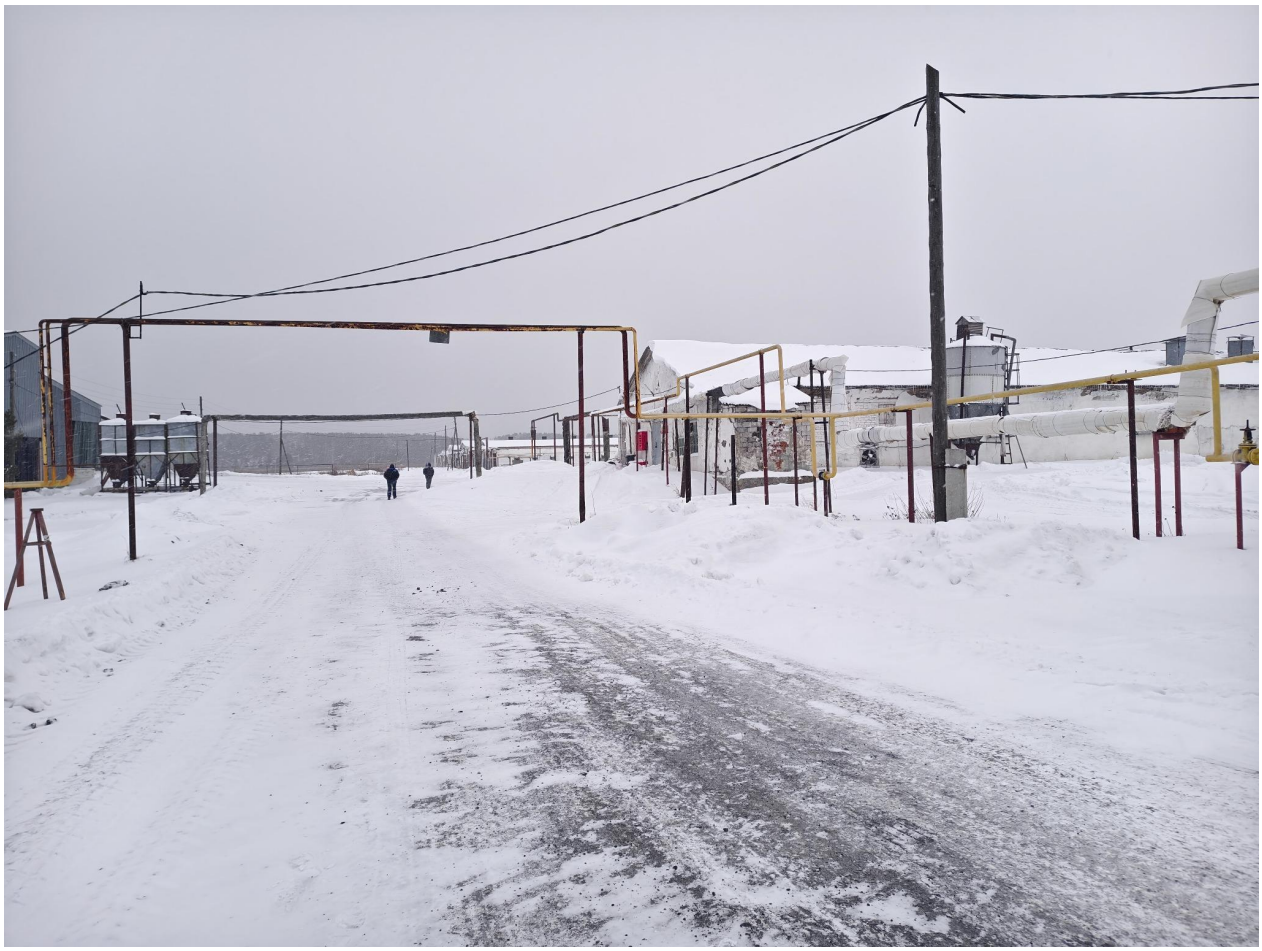
KEYWARM®
We Ignite Success

Kuriko 9-Broiler-House Heating Case Study

Direct-fired warm-air heating solution for a broiler farm in the Yekaterinburg region



Keywarm Case Study

Case Snapshot

Project	Kuriko 9-broiler-house heating project
Location	Artyomovsky District, Yekaterinburg Region, Russia
Building Type	Floor-rearing broiler houses
Structure	Brick-concrete poultry house
Single-House Size	95 × 20 m
Climate Conditions	Lowest winter temperature approx. -30°C
Equipment	9 units of KWFP70 direct-fired cannon heaters per house ｜ Fuel: natural gas

Project Overview

The project is located in a severe-cold region of Russia, where winters are long and the temperature can fall to around -30°C. The heating system therefore had to deliver fast warm-up, rapid temperature recovery and reliable continuous operation. Broiler houses are a typical agricultural building application: they need to establish the base temperature quickly at the start of a cold period, and they also need to recover temperature fast under ongoing ventilation. To meet these conditions, Keywarm provided a heating solution centered on KWFP70 direct-fired cannon heaters, matching the project's need for quick warm-up, fast compensation and simple, dependable operation.

Challenges and Responses

Challenges	Responses
The site is in a severe-cold region with winter temperatures down to around -30°C.	KWFP70 direct-fired cannon heaters were selected as the main heating equipment for each house.
Broiler houses require rapid temperature recovery under continuous ventilation.	Direct-fired heating offers faster warm-up and quicker compensation under ventilation conditions.
Agricultural buildings value response speed and stable running more than complex central systems.	A repeatable equipment layout helps create more continuous air organization inside each house.
Nine houses operating in parallel require consistent equipment logic and maintenance convenience.	The same logic can be replicated across all 9 houses for easier operation and maintenance.

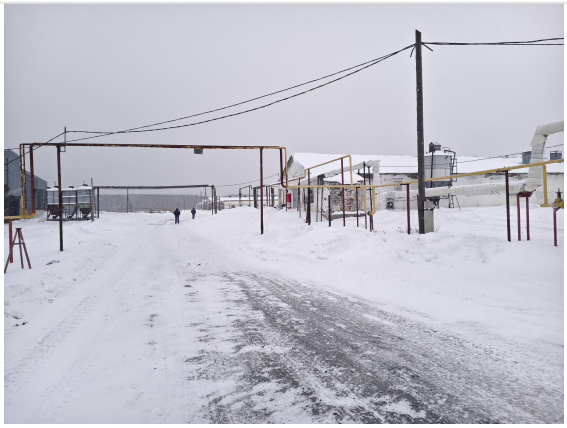
System Configuration & Installation

- Each broiler house is equipped with 9 units of KWFP70.
- Four units are installed on each side and one unit at the front.
- The four units on the left side blow toward the front of the house, the four units on the right side blow toward the rear, and the front unit blows from left to right.
- Natural gas is used as the fuel source.

Performance & Customer Value

Even under extreme cold conditions of around -30°C, the project achieved stable and uniform heating, meeting the broiler house requirement for fast warm-up and continuous temperature recovery in winter. The case demonstrates Keywarm's capability in agricultural heating applications for severe-cold regions.

Project Photos



Winter outdoor environment of the project site

Overall heating scene inside the broiler house

KWFP70 equipment in operation

Interior working environment and temperature condition of the poultry house

Recommended Applications

- Broiler houses
- Brooding houses
- Floor-rearing poultry buildings requiring rapid warm-up
- Agricultural buildings in severe-cold regions
- Livestock and poultry projects requiring fast temperature recovery