

SOLATSO

Ostrich integrated
INCUBATION SYSTEM

A photograph of a row of ostrich incubation units. The units are dark-colored with vertical panels. The first three units on the left are illuminated with a green light, while the unit on the right is illuminated with an orange light. Each unit has a small circular indicator with a number (1, 2, 3, 4) and a plus sign. The background is dark and slightly hazy.

The Future-Focused Hatchery

Solatso Ostrich Integrated Incubation & Hatching Systems [HS-777 series]

Engineered to deliver a **fully controlled incubation environment** throughout the entire ostrich incubation cycle—from setting to hatch. This series emphasizes **exceptional temperature stability, precise low-humidity control tailored to ostrich eggs, and engineered airflow**, ensuring optimal embryonic development at every stage.

An integrated monitoring, alarm, and remote supervision system provides continuous oversight, real-time alerts, and operational confidence—supporting reliable, repeatable hatch results.

Where Precision Engineering Meets Incubation Performance

- **24/7 reliable operation** with continuous monitoring, data logging, and comprehensive safety alarms
- **Full control of incubation variables:** temperature, humidity, and airflow for uniform embryonic development
- **True uniformity across the entire chamber** through engineered airflow design and precise sensing



- **Hygienic, easy-to-clean design** to minimize contamination risk and improve operational efficiency
- **Reduced energy consumption** via insulated, sealed cabinets and intelligent ventilation management



Why Are Ostrich Eggs Different?

Ostrich eggs have a longer incubation period (approximately 42 days) and require **highly sensitive humidity management** to support proper embryonic development. Controlled moisture loss over the incubation cycle is a critical factor, making stable and precise environmental regulation essential.

Furthermore, successful ostrich incubation depends on a **purpose-designed airflow system**. The **airflow pattern** and **air velocity** inside the chamber are **specifically engineered for ostrich eggs**, ensuring uniform heat distribution, controlled moisture exchange, and consistent conditions across all egg positions—key requirements for reliable and uniform hatch outcomes.



≡ Solatso /Monitoring



Monitoring, Reporting, and Reliability (Alarms & Traceability):

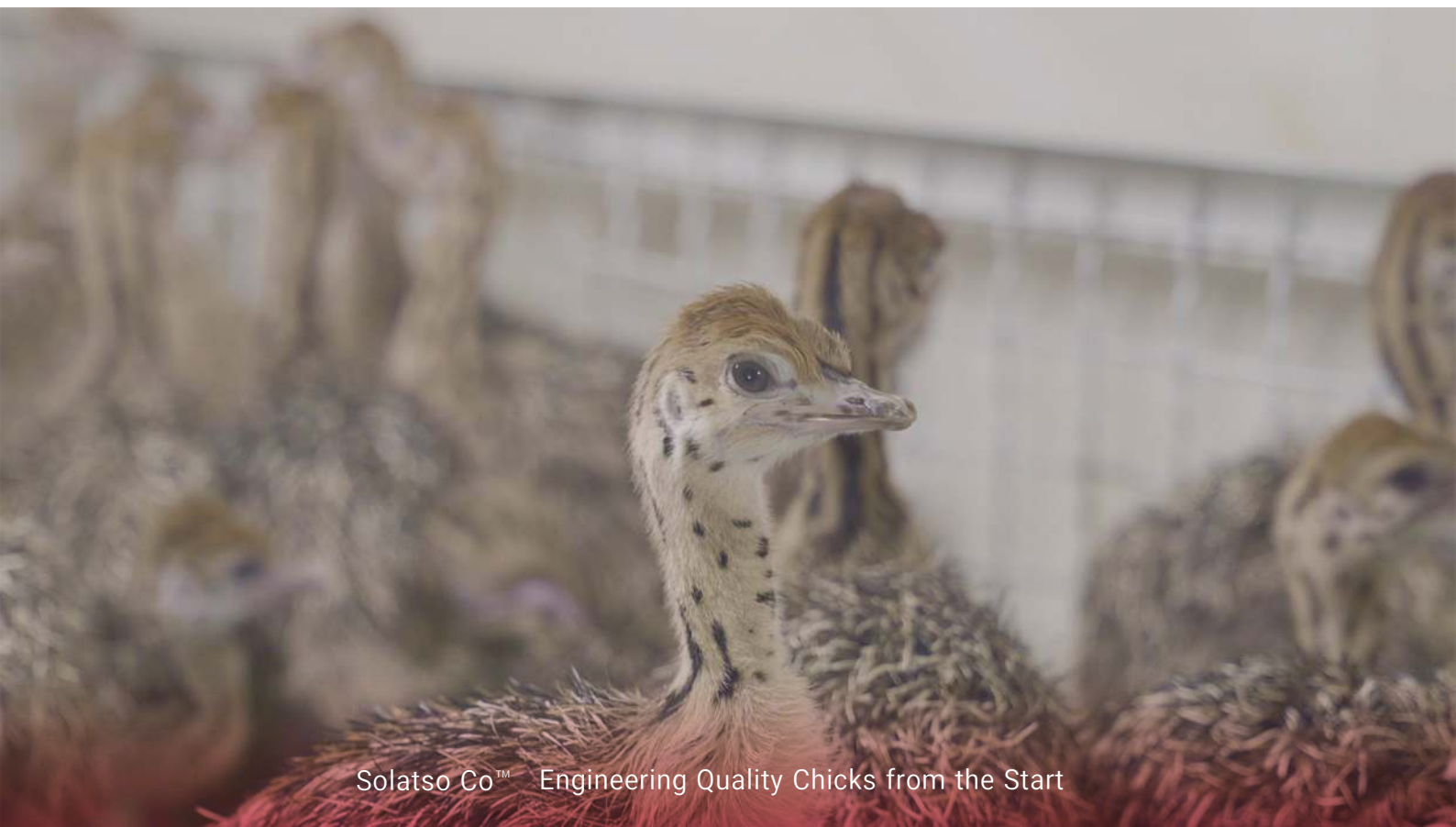
The Solatso Monitoring System continuously supervises all critical incubation parameters across multiple units. Real-time alarms, detailed event logs, and full traceability enable early detection of deviations, ensuring fast response and reliable, uninterrupted operation.

- Centralized monitoring across multiple incubation units
- Out-of-range temperature and humidity alarms
- Trolley rotation count and fault alarms
- Power failure / power restoration alarms
- Event logging and settings history
- Door-open alarms for incubation units
- Sensor fault alarms



Incubation System Performance and Chick Quality

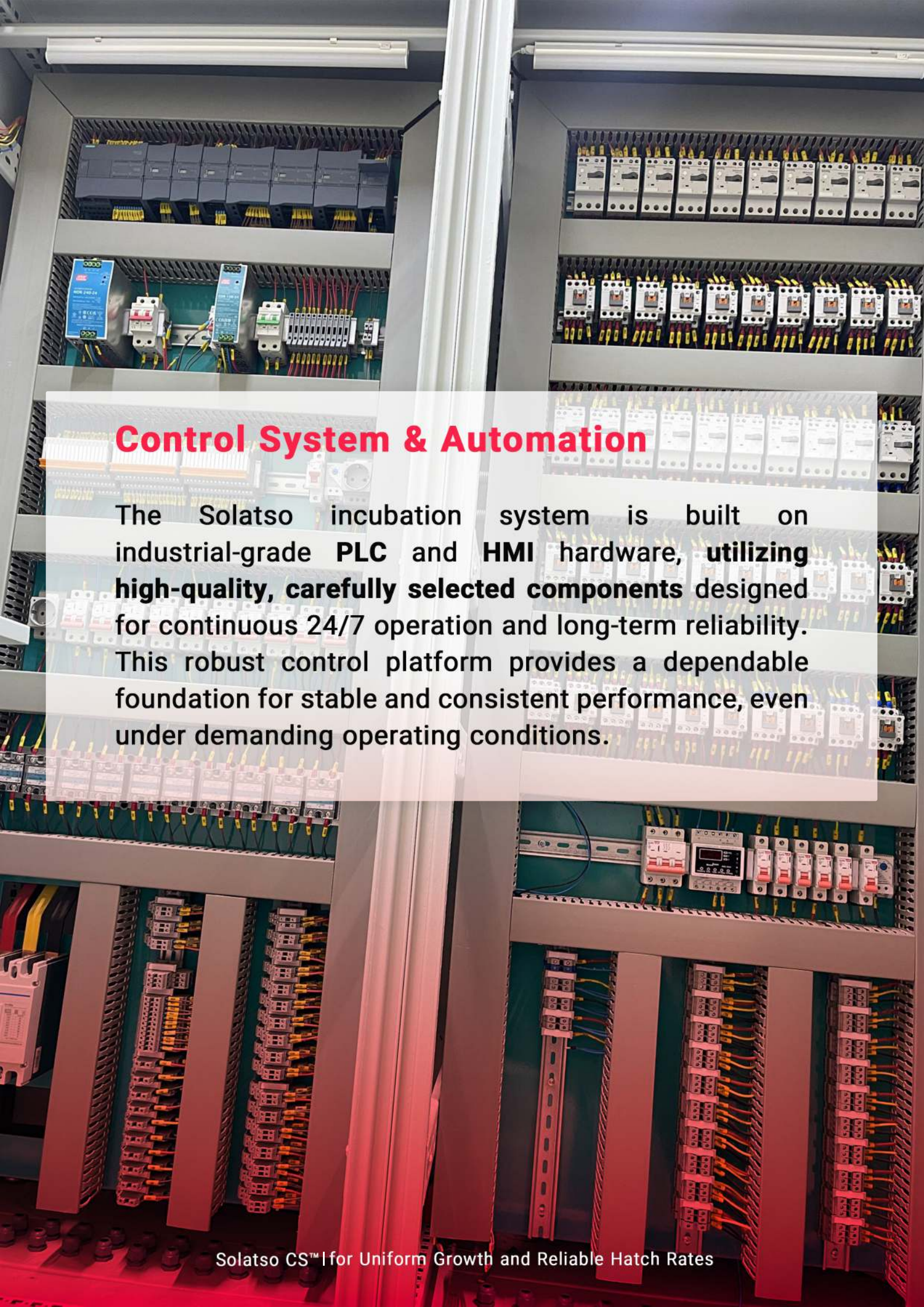
A professional incubation system plays a critical role in the quality, vitality, and uniformity of hatched chicks. Stable environmental control, precise regulation of key parameters, and continuous monitoring reduce embryonic stress and developmental inconsistencies, resulting in stronger, more uniform chicks with improved post-hatch performance and lower early mortality.



Designed for Efficient Cleaning and Hygienic Operation

The incubation chamber is constructed using **durable, hygiene-grade materials** that are **resistant to cleaning agents and disinfectants**, ensuring long-term reliability in routine sanitation processes. **Egg trolleys are designed for easy access and quick removal**, allowing fast and effective cleaning between incubation cycles. In addition, the system features a **hygienic airflow design** that promotes uniform air circulation while minimizing stagnant zones and reducing the risk of contamination within the chamber.





Control System & Automation

The Solatso incubation system is built on industrial-grade PLC and HMI hardware, **utilizing high-quality, carefully selected components** designed for continuous 24/7 operation and long-term reliability. This robust control platform provides a dependable foundation for stable and consistent performance, even under demanding operating conditions.

The custom-designed Solatso HMI interface

is engineered with a strong focus on **clarity and ease of use for operators**. Real-time visualization of **key parameters, system health status, alarms, and quick access to settings** allow for **safe, efficient, and intuitive operation** without unnecessary complexity.



- **10-inch touchscreen display** with a simple, operator-friendly interface
- **Data logging** and periodic reporting capabilities



Solatso's proprietary control logic and specialized Programming

developed in-house by the company's technical team, **enable precise regulation of temperature, humidity, airflow, and gas exchange.** This advanced software architecture ensures that chamber conditions remain stable, uniform, and repeatable throughout every stage of the incubation process.

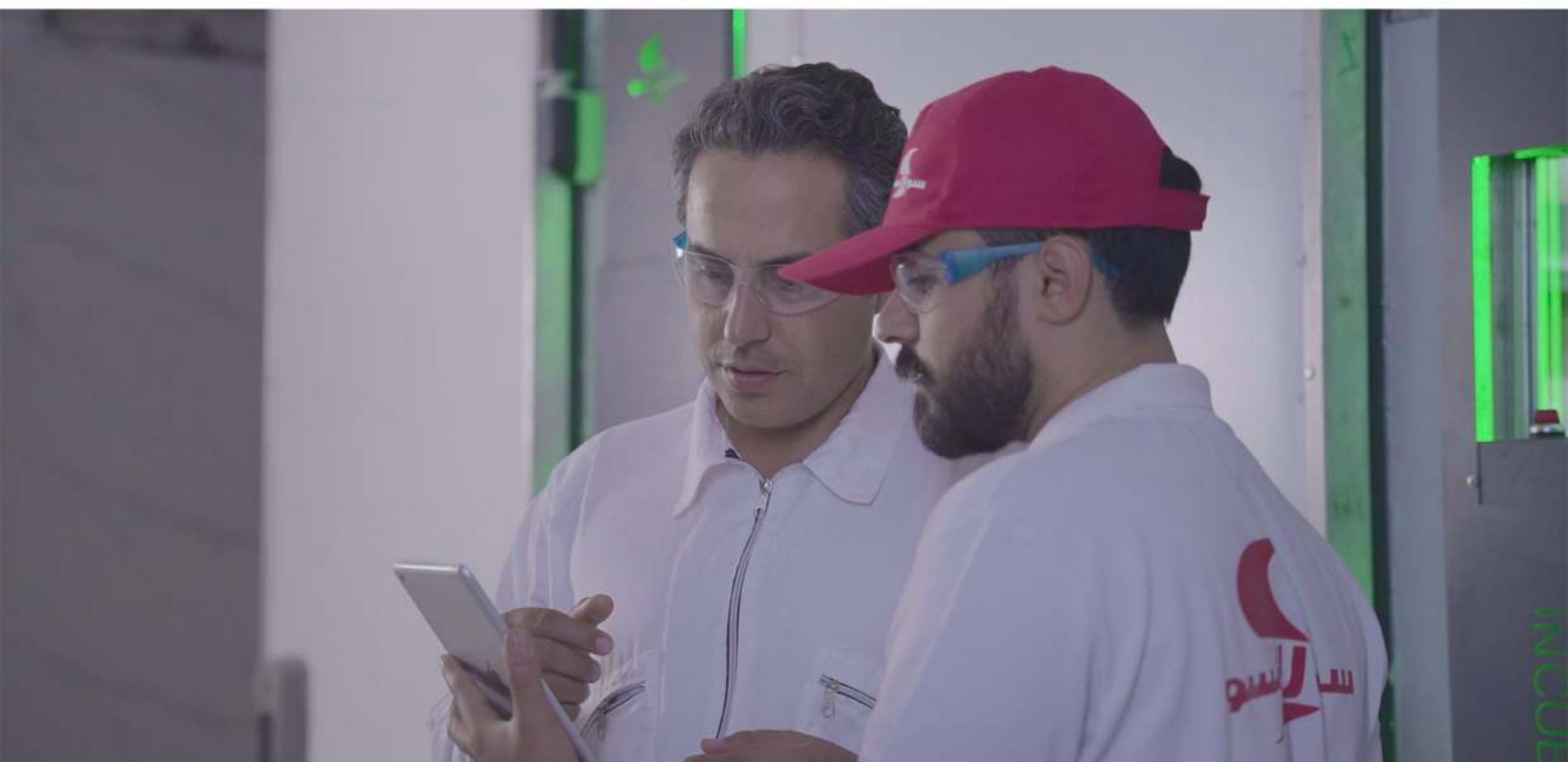




Data Logging, Event Recording & Remote Supervision

Comprehensive data logging and event recording, **combined with a multi-level alarm system**, provide **timely notification of any deviation**, sensor fault, or power-related event. All critical parameters and system events are continuously recorded, ensuring full traceability and performance review.

Integrated remote monitoring enables **faster response**, informed decision-making, and **reduced operational risk**. This continuous visibility helps protect hatch performance and ensures reliable operation across all incubation units.





Operator-Friendly Design & Candling Workflow

The system is designed for **simple and efficient operation**, allowing egg trolleys to be **easily removed from the chamber** for **quick and safe candling procedures**. This ergonomic design streamlines routine handling and reduces operator effort during inspection processes.

Candling data is then **digitally transferred via QR code** scanning to the **Solatso Integrated Farm Management Software**, where it is automatically recorded and processed for **statistical analysis** and performance evaluation—supporting data-driven decisions and improved hatchery management.



Services & Warranty

From initial setup to long-term, stable operation, the Solatso technical team stands by your side—providing **installation and initial calibration, operator training, scheduled maintenance programs, spare parts supply, and ongoing technical support.**

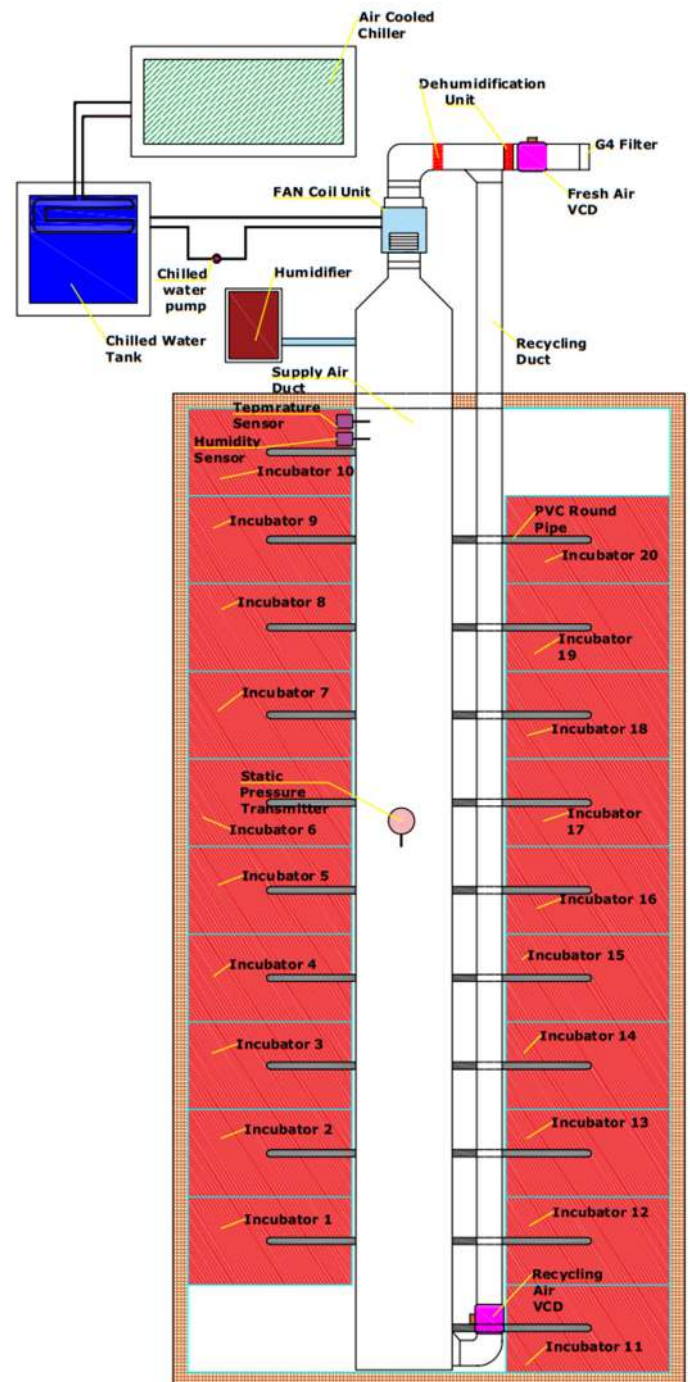
Our goal is not merely to sell equipment—it is to deliver consistent, reliable hatch performance in every incubation cycle.



Installation Scope & Site Responsibilities

Following installation of the incubation units, external air outlet ducts, dampers, and auxiliary temperature and pressure sensors located outside the machines must be implemented by the customer in accordance with the project layout and site conditions. These components form part of the overall ventilation and air management infrastructure and are executed at the installation site.

A sample reference layout diagram is provided to illustrate a typical system configuration and airflow concept. This drawing is intended as a conceptual guide to support planning and coordination and may be adapted based on facility layout, capacity requirements, and site-specific engineering considerations.





Pre-Order & Early Engagement

The Solatso Ostrich Incubation & Hatching Systems [HS-777 Series] are available for pre-order prior to official delivery. Pre-ordering allows **early engagement with our technical team** to **review capacity** requirements, system configuration, and installation planning—ensuring a smooth and efficient deployment aligned with your hatchery operation.

To receive detailed specifications, delivery timelines, and pre-order arrangements, please contact Solatso through the communication channels below. Our team is available to provide technical consultation and **guide you** through the pre-order process.



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<https://wa.me/+989151176120>



SH - 777 SERIES

SOLATSO

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A new advanced hatchery facility