IS-36

Built for Daily Hatchery Operation.

Independent trolley turning.
Insulated cabinet construction.
Digital control as standard.



IS-36 exterior | Selected installation photograph

36,720
Hen Egg Capacity
Configuration: 102 eggs per tray

12
GI TROLLEYS

360
SETTER TRAYS

Omron
STANDARD CONTROL



4 TROLLEYS PER LOADING GROUP

Selected trolley photograph. Correct loading, inspection and maintenance remain essential.

01 / TROLLEY ENGINEERING

Compact Handling. Independent Turning.

01 Compact Trolley Format

Smaller wheeled trolleys are easier to move and manoeuvre during loading and transfer.

02 A Straightforward Loading Pattern

Load four trolleys as one group: two in each cabin. The full setter accommodates 12 trolleys.

03 Turning at Each Trolley

Independent linear actuators remove reliance on a shared turning drive and help reduce the risk of eggs falling due to shared-drive failure.

04 GI for Durable Service

Galvanised steel provides good rust resistance and supports a long service life with proper cleaning and care of the coating.

05 A Clear Loading Unit

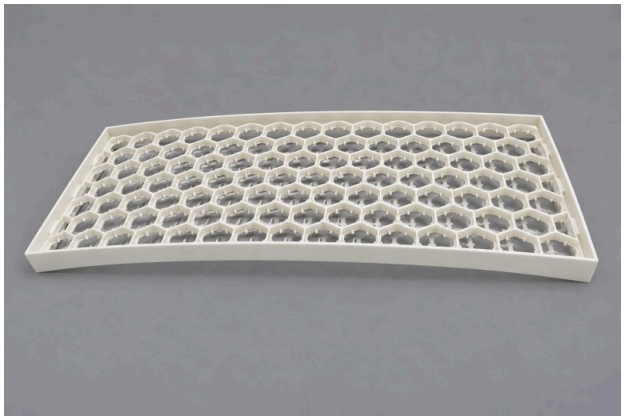
Each trolley carries 30 trays: 3,060 hen egg places with 102-egg trays.

LOADING FLEXIBILITY

Capacity Configured for Your Production.

Select the tray for your egg type. Total capacity depends on the installed tray configuration.

EGG TYPE	EGGS / TRAY	EGGS / TROLLEY	TOTAL
Hen	102	3,060	**36,720**
Hen	90	2,700	**32,400**
Quail	264	7,920	**95,040**
Duck / turkey	60	1,800	**21,600**



12 x 30 = 360 trays

Match the Tray to the Egg

Tray choice determines the listed capacity. Confirm the egg species and selected tray type when ordering.

102-egg setter tray | Capacity depends on the selected tray configuration.

Plan Handling Around the Trolley

Each trolley forms a defined loading unit. Egg trays are included in the agreed machine configuration.

02 / CABINET ENGINEERING

Durable Panels. Protected Insulation.



Illustrative assembly based on the supplied panel references.

01 Impact-Resistant Polycarbonate

Tough, crack-resistant polycarbonate facing supports durable service and withstands routine hatchery handling.

02 Easy to Clean and Repair

Wipe-clean surfaces simplify routine cleaning. Accessible panel construction supports repairs and panel replacement.

03 PUF Insulation for Heat Retention

The insulated body slows heat transfer, helping the cabinet retain heat for longer and reduce unnecessary heat loss.

04 Sealed Panel Construction

Sealed joints help limit air leakage and maintain the controlled chamber when correctly assembled and maintained.

05 Protected Aluminium Corners

Plastic corner protection overlaps the panel facing. Aluminium U-channels protect the edges and support the assembly.

03 / DOOR DETAILS

Engineered for Secure, Consistent Sealing.



Selected door photograph: complete locking mechanism and rubber perimeter seal.

Three-Point GI Door Lock

The full-height locking rod secures the door at the top, centre and bottom. The central handle operates the mechanism, helping maintain firm contact with the perimeter seal.

Continuous Rubber Perimeter Seal

The black rubber gasket runs around the door perimeter. Correct closure and consistent seal contact help limit unwanted air leakage from the incubation chamber.

Built for Routine Hatchery Use

Galvanised locking components provide corrosion resistance. Keep the gasket clean, inspect the locking points and check that the door closes evenly during routine maintenance.

04 / TEMPERATURE, TIMING & HUMIDITY

Precision Control. Practical Operation.



STANDARD DIGITAL CONTROL PANEL

Separate temperature, humidity and turning-timer controls.

Clear status indicators and manual turning controls.

Panel photograph. Controller variant and alarm functions depend on the supplied configuration.

PID + SSR Heat Regulation

PID control adjusts heater on-time through the SSR as heat demand changes. Shorter on-time reduces average heat output near the set point.

Beyond Two-Stage Heater Switching

PID control modulates heater on-time. Temperature stability and energy use depend on tuning, loading and operating conditions.

Configurable Alarm Options

Multiple alarm types, including upper and lower limits and delay settings, support the selected operating requirements.

Digital Turning Timer

The digital timer displays when the next turning cycle is due, making the turning schedule easy to check.

Digital Humidity Controller

A separate digital humidity controller monitors and regulates humidity to the selected setting.

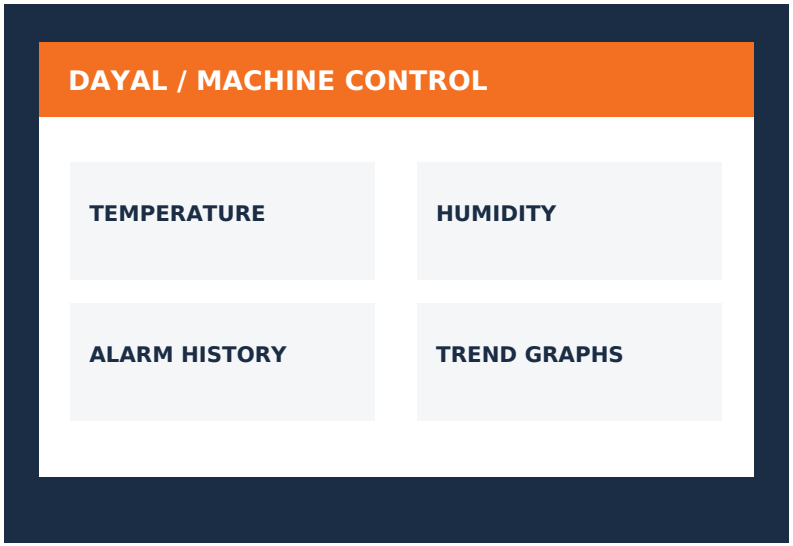
Panel Components and Servicing

Omron and Schneider Electric components, together with clearly labelled wiring, simplify circuit identification and servicing.

SSR switching regulates average heater power; the rated wattage of the heating elements remains unchanged.

05 / CONNECTED MACHINE MANAGEMENT

One Interface. Connected Visibility.



7-inch Touchscreen

Local machine control

Cloud data logging

Multiple machines in one app

Graphs and Operating History

View multiple trend graphs, temperature history, humidity history and alarm records.

One App for Your Machines

Connect compatible machines in one app for a consolidated view of your hatchery.

Controlled Access

Different access levels assign operating, settings and administration permissions to authorised users.

Optional Fan RPM Sensing

Add a fan-speed sensor to monitor fan RPM as part of the selected control package.

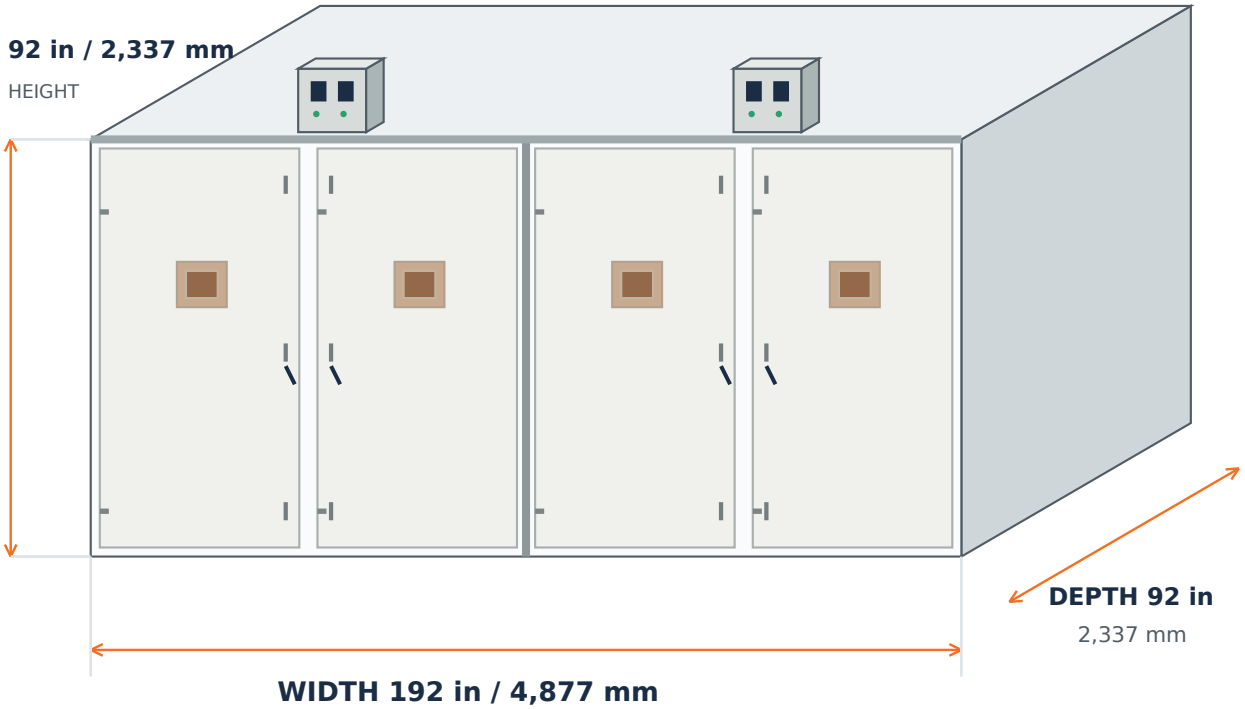
PID + SSR Heating Benefits

The PLC controller reduces average heater power through SSR control as less heat is needed, supporting stable temperatures and efficient electricity use.

Screen shown is a concept, not a software screenshot. App, cloud connectivity, access levels and sensor scope are defined in the selected package.

06 / INSTALLATION PLANNING

Understand the Machine Footprint.



NOMINAL ENVELOPE / W x D x H

16 ft x 7 ft 8 in x 7 ft 8 in



FRONT ELEVATION

192 in wide x 92 in high

SIDE

92 x 92 in

Nominal body: 192 in wide x 92 in deep x 92 in high. Metric values are rounded to the nearest millimetre.

Planning illustration, not a fabrication drawing. Cabinet styling follows the Dayal reference; dimensions describe the nominal body. Confirm rooftop equipment, door swing and service clearances in the approved installation drawing.

07 / TECHNICAL DATA

IS-36 at a Glance.

EGG CAPACITY

Hen / 102 eggs per tray	**36,720**
Hen / 90 eggs per tray	**32,400**
Quail / 264 eggs per tray	**95,040**
Duck / turkey: 60 per tray	**21,600**

12 x **30** x **102**

TROLLEYS | TRAYS EACH | EGGS / TRAY

HEATING PER CABIN

4 x 500 W = 2,000 W per cabin.
2 cabins = 4,000 W total heating capacity.

MACHINE CONFIGURATION

Supply	**230 V / single phase / 50 Hz**
Power: average / maximum	**2.5 kW / 4.5 kW**
Installed heating	**8 x 500 W = 4 kW**
Air circulation	**1/3 HP Marathon fan motors**
Humidification	**Gunny-ring system**
Setter trolleys / trays	**12 / 360**
Turning	**Independent linear actuators**
Standard controls	**Omron + SSR**
Optional controls	**Schneider Electric PLC**

Capacities are tray-place totals, not hatch output. Average power varies with operating conditions.

08 / SERVICE & SUPPORT

Support for Every Stage of Ownership.



IS-36 front exterior | Selected installation photograph

Practical Planning. Accessible Parts.
Support from Installation Onward.

Planning & Installation Assistance

Assistance with machine placement, working clearances and installation planning. Installation in India is included; customers cover travel and accommodation.

Guidance for Your Team

Export supervision, remote guidance and factory training are arranged for the project and operating team.

Readily Available Replacement Parts

Serviceable components and available spares support straightforward replacement. Labelled panel wiring helps identify circuits during maintenance.

One-Year Warranty for Manufacturing Defects

A one-year warranty covers manufacturing defects. Defective parts are replaced under the agreed warranty terms.

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Inside the IS-36.

Selected views of trolley loading and cabinet access.



TROLLEY LOADING & INDEPENDENT TURNING



OPEN CABINET & SERVICE ACCESS

Installation photographs show the selected machine configuration; site arrangements may vary.