IS-73

Built for Daily Hatchery Operation.

Independent trolley turning.

Insulated cabinet construction.

Digital control as standard.



IS-73 exterior | Selected model photograph

73,440

Hen Egg Capacity

Configuration: 102 eggs per tray

24

GI TROLLEYS

720

SETTER TRAYS

Omron

STANDARD CONTROL



24 SETTER TROLLEYS IN TOTAL

Setter trolley component reference. Correct loading and maintenance remain essential.

01 / TROLLEY ENGINEERING

Compact Handling. Independent Turning.

01 Compact Trolley Format

Wheeled GI trolleys support loading, transfer and access for routine cleaning.

02 A Defined Loading Configuration

The IS-73 accommodates 24 setter trolleys with 30 trays per trolley: 720 trays in total.

03 Turning at Each Trolley

Independent linear actuators provide automatic egg turning and reduce reliance on a shared turning drive.

04 GI for Durable Service

Galvanised steel offers rust resistance with proper cleaning and care of the coating.

05 A Clear Loading Unit

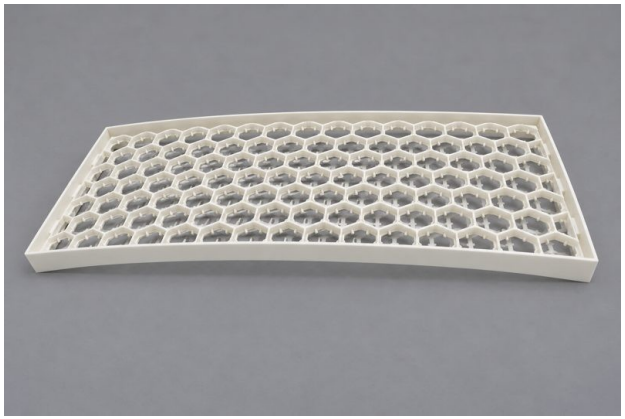
Each trolley carries 3,060 hen egg places when fitted with 30 trays of 102 eggs.

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	**73,440**
Hen	90	2,700	**64,800**
Quail	264	7,920	**190,080**
Duck / turkey	60	1,800	**43,200**



24 x 30 = 720 trays

Match the Tray to the Egg

Confirm the egg species and selected tray configuration when ordering.

Plan Handling Around the Trolley

Egg trays are included in the agreed machine configuration.

102-egg setter tray | Capacities are tray-place totals, not hatch output.

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.



Door and seal component reference shared across the selected machine range.

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.

Responsive Heat Regulation

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 controls the interval between automatic turning cycles and provides a clear timing display.

Digital Humidity Controller

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

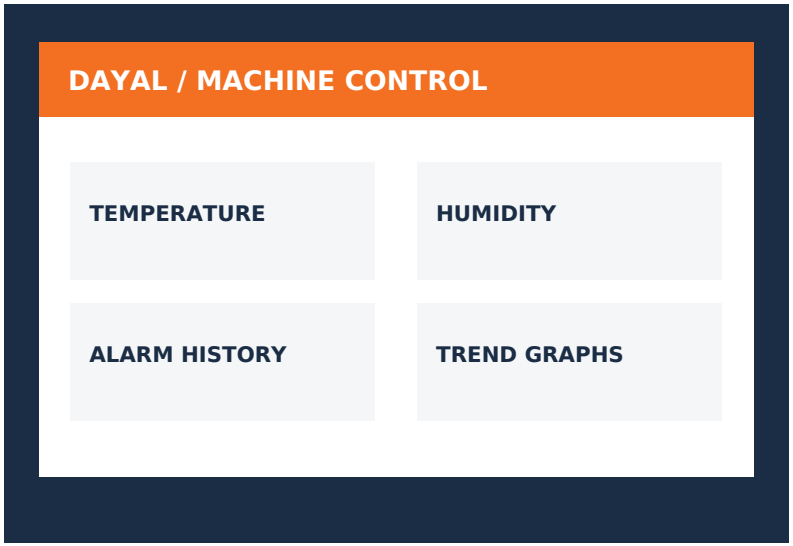
Panel Components and Servicing

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.

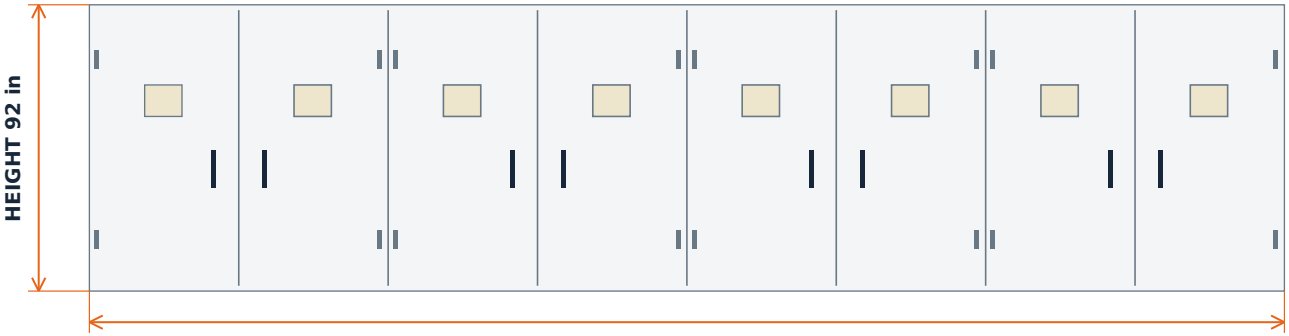
Screen shown is a concept, not a software screenshot. App, cloud connectivity, access levels and sensor scope are defined in the selected package.

06 / INSTALLATION PLANNING

Understand the Machine Footprint.

IS-73 cabinet envelope. Front, side and plan views are drawn to the same proportional scale.

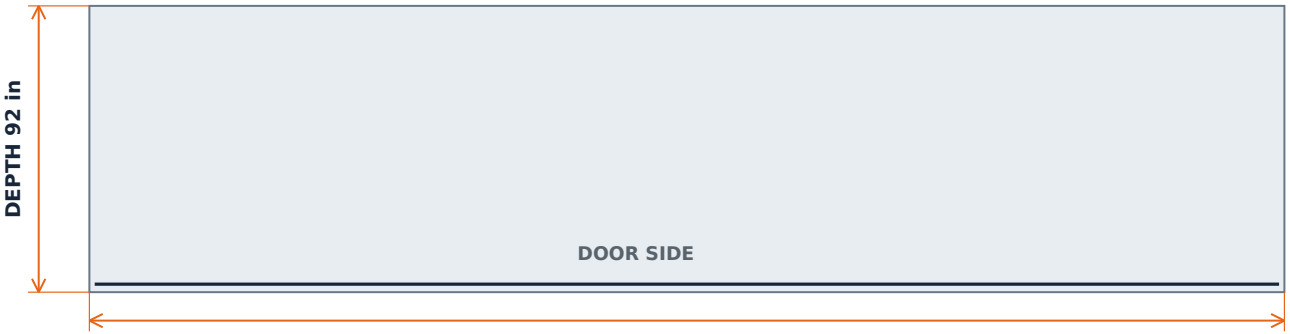
FRONT ELEVATION



SIDE ELEVATION



TOP VIEW / PLAN



NOMINAL CABINET DIMENSIONS

Front width	384 in = 32 ft 9,754 mm
Depth	92 in = 7 ft 8 in 2,337 mm
Height	92 in = 7 ft 8 in 2,337 mm

Nominal body only. Door swing, rooftop equipment and service clearances require the project installation layout. Metric values are rounded.

07 / TECHNICAL DATA

IS-73 at a Glance.

EGG CAPACITY

Hen / 102 eggs per tray	**73,440**
Hen / 90 eggs per tray	**64,800**
Quail / 264 eggs per tray	**190,080**
Duck / turkey: 60 per tray	**43,200**

24 TROLLEYS x **30** TRAYS EACH x **102** EGGS / TRAY

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

MACHINE CONFIGURATION

Supply	**230 V / single phase / 50 Hz**
Power: average / maximum	**5 kW / 8 kW**
Front width	**384 in / 32 ft / 9,754 mm**
Depth	**92 in / 7 ft 8 in / 2,337 mm**
Height	**92 in / 7 ft 8 in / 2,337 mm**
Setter trolleys / trays	**24 / 720**
Trays per trolley	**30**
Egg turning	**Independent linear actuators**
Standard controls	**Omron + SSR**
Humidity / timer	**Separate digital controls**
Optional controls	**Schneider Electric PLC**

Model data from the existing individual technical catalogue.

08 / SERVICE & SUPPORT

Support for Every Stage of Ownership.



Selected model exterior | Illustrative composite

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 and routine maintenance.

One-Year Warranty for Manufacturing Defects

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

sales@dayalpoultryappliances.com +91 99714 53902

Inside the IS-73.

Representative setter interiors with the same internal construction.



TROLLEY LOADING & INDEPENDENT TURNING



OPEN CABINET & SERVICE ACCESS

Shared setter-interior references. The full IS-73 loading configuration is 24 trolleys; photographs show a cabinet section.