

12:00 a.m.

Timing is important



Hatching quality chicks **on time**
demands skill, experience, dedication
...and a little support from LINCO

The company...

LINCO Set & Hatch A/S is a member of the LINCO Group of companies.

LINCO has been working in the Poultry business since 1944.

In 1998 it was decided to expand the business to include hatchery equipment, - this decision was implemented by the take-over of the former Danish company Funki Set & Hatch.

The LINCO Group has 35 sales and service centres covering 80 countries across 7 continents.



Committed to the hatchery industry...

Harry Sorensen has been working in the hatchery business since the age of 18, and when LINCO took over the company in 1998, he was appointed to be the MD of LINCO Set & Hatch A/S.



“We are committed to supply quality and ensure outstanding performance”

“We want successful customers, - their success is our future”

“We offer profit to our customers, - it demands quality to produce quality chicks”

“We don’t waste time on patents, - continued development pays better off”

“We offer uniform chicks . . and uniform results”

“Our products can be copied, - but not our ideas”

. . . “Try what LINCO can do for you . . . !!!!



Setter Mk 1

Multi-stage

The Mk 1 setter is used primarily for multi-stage incubation, but the short versions can also handle single-stage.

Uniform temperature by unique ventilation

The wind tunnel system is the most efficient way to ensure uniform ventilation, and a very uniform temperature is obtained by always placing the older eggs under the fans, - thus exposing them to increased level of ventilation.

Maximum hygiene

The use of filtrated (Reverse Osmoses) water ensures that bacteria are not added to the humidity system, - a problem that exists with traditional disc-humidifiers.

Low maintenance

Trolleys and turning system are new constructed with Teflon bearings and without use of electric components – maintenance is therefore reduced to a minimum.

Divided in zones

The bigger setters are divided in individual controlled zones to ensure maximum temperature control for all eggs.

The modular construction of the LINCO setter allows making machines for almost any capacity required. Doors can be placed in the side or in the end of the cabinet, - giving endless flexibility in the design.

Minimum operation cost

The use of propeller fans in the LINCO machines ensures the electric consumption is reduced by more than 50% compared to alternative fan systems.

Setter Mk 2

Single-stage

Real single-stage incubation demands a special hardware design – ultimate results in single-stage incubation are not obtained by using machines designed for multi-stage. The need for heating, cooling and ventilation is much bigger and the design must be capable of providing the necessary conditions.

Heating /cooling in every trolley

Mk 2 setter trolleys have a heating / cooling element in every trolley, - this ensures that the necessary cooling capacity is always present.

Short heat-up time

By real single-stage incubation all the eggs must be heated up in less than 8 hours to ensure a short and uniform hatch 3 weeks later. The LINCO Mk 2 setter can heat up 120.000 eggs from cold-store to incubation temperature in less than 7 hours.

Uniform temperature

Constant circulation of the water among all the trolleys in the setter ensures a very accurate temperature – maximum deviation of 0.3° F throughout the cabinet and without hot/cold spots.

No overheating

The cooling element in the middle of every trolley ensures that the produced heat is removed before it can influence the eggs in the next trolley.

Labour saving

With LINCO real single-stage setters there is no need for weekly rotations of the trolleys.

Low investment cost

Reductions in size of electric cables, switch-boards, stand-by generators compensates the slightly higher price of quality equipment



Each single-stage setter trolley has its own heating/cooling element



View of turning system



No suspended ceiling and rails in floor for easy cleaning



Setting of eggs

Hatcher Mk 2

When a job is easy, - it will be done well!
The LINCO hatcher is designed with this in mind.

Efficient ventilation

The fans are designed to ensure maximum ventilation at low energy cost, - without any V-belt construction.

Stainless steel panels

The internal surface of stainless steel is highly durable and ensures a lifetime that is more than double as long as that of other brands. The stainless steel surface allows the use of aggressive disinfection chemicals.

Built-in cooling system

A special LINCO design makes it possible to get increased efficiency of the cooling system by placing the element inside the cabinet panels, - thus making washing far easier.

No condensation of water

Having cooling in the entire panel surface, condensation of water inside the hatcher is avoided, - and the dry floor does not promote bacteria growth.

Increased performance on reduced space

The special design of the LINCO hatcher makes it less space demanding than traditional equipment.

Compatible with other brands

The modular construction allows the LINCO hatcher to hold trays of most other brands of incubators, - a way of increasing the capacity without extending the hatcher rooms.



Newly hatched chicks ready for take off



Hatcher/farm dolly in stainless steel



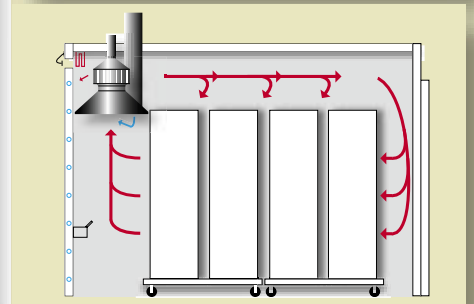
Hatcher trays full of healthy chickens



40.320 eggs hatcher with 2 zones



Hatcher fan units in stainless steel



Flow-diagram of Mk 2 hatcher

Professional® Control System

The Professional® control system is modular constructed, and it is configured to the individual customers demand. The Professional® control is equipped with a large 12" touch colour screen and it provides full over-view of the operation.

The basic unit

The basic control has all the necessary facilities to ensure safe incubation such as automatic control of:

- Heating
- Cooling
- Humidity
- Ventilation
- Egg turning
- Alarms
- Incubation programmes
- History recording
- Log-book function

... and the options

By changing the software set-up the following facilities can be made available:

CO₂ controls

By adding a CO₂ sensor kit, the CO₂ level can be controlled and a constant recording of the data made available.

Weight loss system

By adding a trolley with electronic load cells the humidity level can be controlled by a constant monitoring of the weight-loss of the eggs. The LINCO weight-loss system is constantly collecting data from 2.520 eggs.

Embryo temperature control

By adding a set of embryo sensors, the incubation temperature can be controlled according to the embryo temperature and development.

Monitoring camera

By adding an electronic camera kit, it is possible to monitor the chicks hatching direct on the control screen. This facility solves all the well-known problems with windows in the cabinet wall.



Set & Hatch

- the labour saving tray system

The Set & Hatch tray is designed for easy and safe handling of eggs from farm to hatcher, - transfer is done just by lifting the insert frame away.

No cracked eggs

The easy transfer assures that no eggs are cracked and contaminated during transfer, manual transfer time is reduced by 75% compared to other systems.

Easy to handle

The weight of only 7 kg (with eggs) and handles in both ends ensures that transfer can be done by both male and female workers.

Data

Measurements: 490x540x105 mm

Weight (empty): 1.7 kg

Capacity: 90 hen eggs,
72 duck/turkey eggs,
36 goose eggs,
132 pheasant/guinea fowl eggs,
195 quail/red-leg eggs.



S&H tray with insert, ready for setting



Insert lifted out = eggs transferred



S&H tray with newly hatched chickens

...and the "Classic" tray

The Classic tray is designed for hatcheries operating with higher degree of automation and/or in-ovo vaccination systems.

Designed for big eggs

The LINCO trays give approx. 2 mm more space for every egg than other brands of trays - with an egg space of 50x50 mm the Classic tray can take eggs up to the size of 90 g.

On-farm traying

Filled Classic trays can be stacked and this makes it unique for collecting eggs directly in the Parent Stock farms.

Data

Measurements: 490x540x83 mm

Weight (empty): 1.2 kg

Capacity: 90 hen eggs



The "Classic" tray

Setter Trolleys

The setter trolleys are made in galvanized steel. The very open construction makes it easy to clean and to handle.

Maintenance free

All moving parts are suspended in maintenance free Teflon bearings, and the trays automatically move to horizontal position when disconnected from the turning system.

Labour saving

The strong construction makes it possible to transport filled trolleys on forklifts, - this saves time and labour in the big hatcheries, and the eggs are not exposed to vibrations during transport.

Data

Measurements: 119x118x205 cm (LxWxH)
Height to the upper tray: 172 cm
Weight (empty): 120 kg



Setter with 4 trolley rows



Standard and "half size" setter trolley



Turning system

LINCO setters are constructed with a water hydraulic / mechanical turning system, - a simple but very reliable design with plenty of benefits.

No maintenance

The use of Teflon bearings reduces maintenance to an absolute minimum, and the special designed water-hydraulic cylinder is proved to be extremely reliable

No electric components

The turning system has no electric components placed inside the cabinet, - this ensures easy and effective washing.



Maintenance free turning system



Automatic coupling of trolleys

Central control

The unique design of the LINCO Professional® control makes it possible to get central control just by connecting an additional control panel to the communication network.

Ethernet communication

The communication is based on Ethernet to allow support and back-up to customers via the Internet, - checking the operation and updating of software can be carried out directly from a LINCO Service Centre.

255 units network

The standard unit allows central control of 255 machines, but further extension is an option.

Monitoring and programming

From the central control it is possible to change settings and load complete programmes directly into the connected incubators.

Humidity system

Humidity is added by high-pressure spray nozzles, - utilising the same pump as the turning system.

Cold steam

Working at a pressure of 70 bars, the nozzles deliver a very fine mist that is easily absorbed by the warm air.

Bacteria free environment

As the system does not operate with compressed air, the biggest risk of contamination is eliminated, and it is recommended to operate with purified water.

Low operation cost

The use of high-pressure spray reduces the electric consumption and the maintenance cost of the machines considerably.

Ventilation

The fans operate 24 hours a day, - 90-95% of the electricity consumption will therefore be used for ventilation, - to avoid high electricity bills it is necessary to choose the best ventilation system.

High efficiency of fans

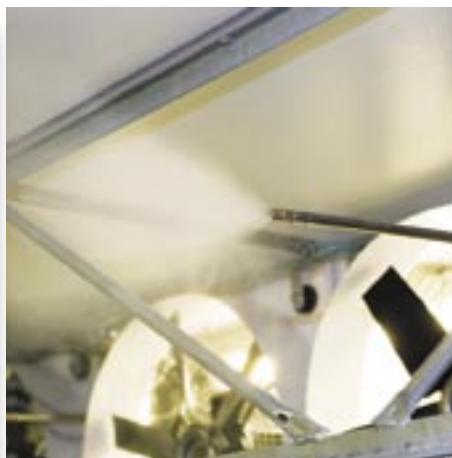
The propeller fans used in LINCO machines utilize 80% of the electricity to move the air, contrary to paddle fans that utilize only 15%, - this is why LINCO machines use less than half of the electricity used in other brands.

Strong motors

LINCO use motors specially designed to work in humid environment - this ensures trouble-free operation in connection with heavy washing.



Professional® screen used for central control



High pressure nozzle at work



Low electric consumption with propeller fans

Cabinets

Polyurethane injected panels ensure quality on the highest level, - a technology unique for LINCO incubators.

Stainless Steel - Cabinets that last

The use of stainless steel, plastic coated galvanized steel and polyurethane technology ensures LINCO cabinets a lifetime that is 2-3 times longer than ordinary manufactured cabinets.

Maximum insulation

50 mm thick panels provide an insulation value (K-value) of 0.37, and plastic assembly rails at the edges ensure that heat is not transferred through the cabinet wall.

Bio-security design

Panels are assembled with plastic lock-bars that seal the cabinet, - in this way there is no space for bacteria to hide as known with the H-profile assembly system.



Section view of cooling panel. Cooling tubes inside



Inside view from setter



Inside view from hatcher



08:00 p.m.

Results count! Thousands of High Quality Chicks

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