

# Masalles



## DATA SHEET INCUBATOR MODEL 65-C HLC

ART.: 1200-1140

### TECHNICAL COMMITMENT

Masalles offers the highest technology focused on the most demanding customers using the latest generation technology.

The **HLC** finishes combine the maximum technology applied in the incubation and birth processes. This is achieved by means of new and effective systems developed especially to guarantee optimal performance profitability.

Discover why the new generation of **HLC** incubators are the best performance incubation equipment in the market and the ideal investment for the most demanding clients.

### NEW FINISHES AND EQUIPMENTS

With improvements in almost all the sections, now all the equipment models **65-C** with **HLC** finish include:

- New electronics with LCD screens with language selector for easy and intuitive operation
- New automatic humidity system with more capacity and autonomy.
- New stainless steel finish offering greater resistance to corrosion.
- New wider panoramic windows.
- New temperature and humidity sensors with porous filter and removable quick connector for cleaning and maintenance in disinfection tasks.
- LED cold interior light with automatic self-disconnection.
- New special treatment with fireproof protection in electrical compartments minimizing damages in case of any incidental electrical event.

### HIGH LEVEL OF BIOSECURITY

Our one-piece manufacturing system type **DWOP** combining the implementation of stainless steel and anodized aluminum offer a superior level in terms of biosecurity, quality and durability offering great resistance to corrosion to increase the service life at the height of our most demanding clients

### HIGH TECHNOLOGY FOR AN INTUITIVE AND SIMPLE HANDLING

All **HLC 65-C** models incorporate the new latest generation electronic panels. More precise, intuitive and easy to use thanks to the fact that they have a 32-character LCD screen with LED lighting that allows real-time visualization of the parameters necessary to have the entire incubation process under control.

These new panels have language selection and show temperature and humidity parameters, information of the turning system (next turn, cumulative turns, programmed intervals) are some of the functions that can be programmed in the new **65-C HLC** equipment.

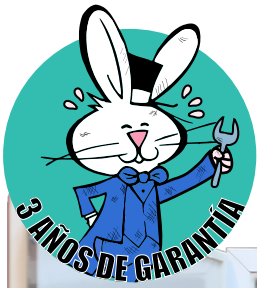
### PROTECTION AND SECURITY SYSTEMS

Equipped with the maximum technology, as far as security systems are concerned, focused on guaranteeing a constant and efficient operation of these models avoiding possible accidental damages that could affect production. These security systems are latent and allow constant monitoring of the electronic device through devices formed by:

- Electronic safety thermostat.
- Electronic protector of transient voltages
- Acoustic alarm in case of excess temperature.

### CAPACITIES

Quail	Partridge	Pheasant	Chicken	Duck/Turkey	Goose
1584	1008	784	576	432	224



## TECHNICAL FEATURES:

### GENERAL FEATURES:

- Cabinet made by polyester double wall using the system **DWOP**.
- Double-walled polyester doors with panoramic aluminum windows.
- Protection of the electrical system with fire retardant treatment.
- Interior completely made of stainless steel with electro polished treatment.
- **3** individual positioning trays.
- **2** hatcher trays.
- **LED** interior light with timed auto-off.
- Height adjustable legs.

### ELECTRONIC CONTROL SYSTEM:

- Electronic **PID** control with programmable digital temperature and humidity **DISPLAY-LED**.
- **32-character LCD display** with **LED** illumination and language selection.
- Decimal humidity programming range from **10% RH** to **70% RH**
- Programming range of decimal temperature scale from **20.0°C** to **45.0°C** (**68°F** to **113°F**)

### HUMIDITY AND VENTILATION SYSTEM:

- Automatic humidity system type **HS-SINF** with external tank.
- Variable speed electronic ventilation system.

### COOL SYSTEM:

- **Natural Cool Down Programmable NCDP** with programmable functions:
- Cooling intervals (**1h** to **24h**)
- Cooling temperature with respect to SET (**-0.2°C** to **-20°C**)
- Cooling period duration (**1** to **59 minutes**)

### TURN SYSTEM:

- Automatic turning system **NATAP** with servo motor with **45 °** with programmable functions:
- **Fixed / Random** programming Selector.
- Programmable start and stop tumbling intervals.
- Turn of turns interval (**5 minutes - 24 hours**)

### SECURITY SYSTEM:

- Over voltage/transitory protection circuit.
- Double safety thermostat with adjustable set.
- Programmed high or low temperature sound alarm.

#### Electrical power, measures and weight

Single phase operation	230V - 50/60Hz
Average power consumption	190W/h
Dimensions with packaging	80x67x105 cm
Weight approx	50 Kg

## TECHNICAL SPECIFICATIONS



### Natural Automatic Turning Aleatory Programmable

This new turning system changes drastically the already known turning systems providing the breeder a perfect control of the entire process of turning during the incubation.

In front of the turning systems whether they are pendulum at 45° or per drag, our new NATAP turning system offers the following programming possibilities in addition to be specially designed to mimic the natural movement that the birds make when they turn the eggs.

It has the following technical characteristics:

- Fixed or random turning programming selector.
- Quick function simulating the mother in the nest with 180° Rotation.
- Turn-over intervals and programmable overturning stops (5 min/ 24h)
- Slow turning function for special incubations.



### Fireproof

All the compartments where electrical components are housed have fireproof treatment that minimizes any possible propagation in the interior.



### Antiestatic

The use of expanded polyethylene foam inhibits the accumulation or discharge of static electricity that can damage electrical components and even ignite liquids.



### Proportional Interactive Derivate.

An electronic panel equipped with PID system. It is a highly precise control system that allows adjustment parameters to be adjusted with the utmost precision through complex calculation algorithms.



### Natural Cool Down Programmable

The NCDP-COOL- (cooling) function is based on the simulation of the incubation

period of the birds in the periods of 15-20 min rise to eat what allows the eggs to cool. Several studies have shown that this cooling period whenever controlled is beneficial especially for eggs of raptors.

Unlike other conventional cooling systems employing techniques to cool the incubation chamber "simply" by disconnecting the incubator over a period of time Masalles has developed its own intelligent cooling system by means of the thermal cooling technique.

This cooling technique is the closest to the effect that occurs during the absence of the mother in short periods of time during incubation.

This consists conducting controlled cooling of temperature within the incubation chamber.



### Double Wall One Piece

Mueble fabricado de doble pared de una sola pieza fabricado mediante inyección de espuma de polietileno expandido (EPS). Ofrece un nivel aislante superior y estanqueidad total.



The implementation of stainless steel and anodized aluminum offer a superior level in terms of biosecurity, quality and durability offering great resistance to corrosion to increase the useful life of our equipment.

## DIRECTIVES & HARMONIZER STANDARDS

ACCOMPLISHES WITH THE DISPOSITIONS OF THE **FOLLOWING GUIDELINES:**

- Provisions of the machine 98/37/CEE
- Low tension 73/23/CEE
- Electromagnetic compatibility 89/336/CEE

ACCOMPLISHES WITH THE DISPOSITIONS OF THE FOLLOWING **HARMONIZED NORMS:**

UNE-EN 292-1:1993	UNE-EN 55014-1:2002	UNE-EN 60898:1992	UNE-EN 20324:1993	NE-EN 60335-1:2002
UNE-EN 292-2:1993	UNE-EN 842:1997	UNE-EN 60320-1:2003	UNE-EN 60204:1999	UNE-EN 614-1:1995
UNE-EN 294: 1993	UNE-EN 953:1998	UNE-EN 20324:2000	UNE-EN 50081:1994	
UNE-EN 418:1992	UNE-EN 1050:1997	UNE-EN 50082:1998	UNE-EN 61310:1996	

# DISPLAY INCUBATOR 65-C HLC



This model incorporates our new electronic panel of last generation type HLC. More precise, intuitive and easy to use thanks to a 32-character LCD screen with LED illumination that allows you to visualize in real time all the parameters necessary to have the incubation process under control.

## PROGRAMMING PARAMETERS



Display showing the humidity inside the incubation chamber.



Display showing the temperature in Celsius inside of the incubation chamber.



The LCD screen informs according to the needs of the temperature in degrees centigrade, the percentage of humidity and the rest of the programmed parameters.

SET

It allows to know the temperature and humidity programmed on the incubator.



Push buttons to modify programmed parameters and to move between screens of the general adjustment menu.

## SECURITY & ALARMA SYSTEM



External GSM alarm indicator, activated when it is in general alarm for a period exceeding 10 minutes and activates an external output for GSM notification..



Acoustic warning that acts when there is a temperature alarm.



In case the incubator exceed the setup temperature the security system will act.



Indicates when the incubator is working 3 tenths above or below the programmed temperature.



Activates internal LED light with auto-self disconnection.

## TURN & COOL SYSTEM

COOL

Activate **Natural Cool Down Programmable** NCDP-Cool-.

TURN  
ALEATORY

Activates aleatory turning system function (NATAP).

TURN

Activate turn system.

\*No disponible en esta versión.

# OPTIONS & **ACCESORIES**

## INCUBATOR 65-C HLC

### MEDITION & CALIBRATION

**MASALLES MASTER THERMOMETER**

Specially designed for temperature calibrations for incubation and hatchers.

**BOTTLE HYGROMETER**

Indicado para medir la humedad en salas de incubación.

**ANALOGIC HYGROMETER**

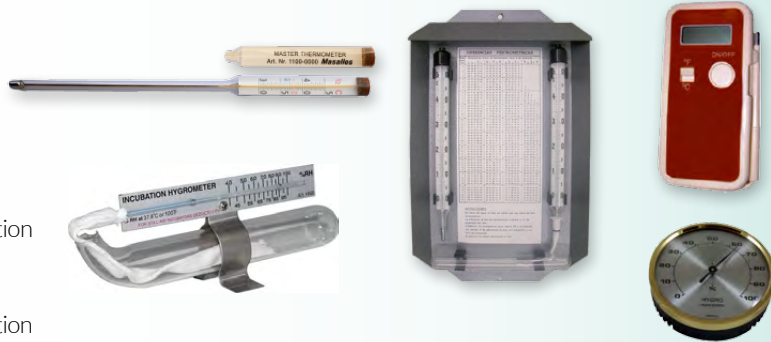
Indicated to measure humidity in hatcheries.

**PSYCHROMETER GROUP**

Indicated to measure temperature and humidity in incubation rooms.

**DIGITAL THERMOMETER**

Indicated to digitally measure the temperature in incubation rooms.



**VETERINARY DISINFECTANT**

Available in several formats, especially indicated for the disinfection of incubators, hatchers, brooders, transport cages and hospitalization.

**DISINFECTANT WET WIPES**

Ideal use for rooms where running water or instrument cleaning is not available.



### DISINFECTANTS

**DISINFECTANT AEROSOL PUMP SAFIBIO**

For disinfection of rooms from 13 m<sup>3</sup> to 40m<sup>3</sup> of single use type "BOMB"

**DISINFECTANT SPRAY**

For disinfection of products with application directly on the surface to be disinfected.

**DISINFECTANT GERMICIDE CREAM**

Creams for wounds already infected, allow to control the lesions safe from viruses, bacteria and fungi.

**DISINFECTANT HAND GEL**

Easy to apply and do not require rinsing.

### DISINFECTION CHAMBERS

**DISINFECTION CHAMBERS UV & UV-G**

Chamber for egg disinfection by ultraviolet UV radiation. Specially designed for the sterilization and disinfection of all kinds of eggs

Capacity approximate UV: 20 chicken eggs or similar size.

Capacity approximate UV-G: 140 chicken eggs or similar size.



# OPTIONS & **ACCESORIES**

## INCUBATOR 65-C HLC

### SECURITY SYSTEMS



#### GSM MODULE ALARM

- Possibility of sending alarm messages to up to 6 mobile phones.
- Notice by phone call.
- Connection and disconnection of alarms via remote SMS.
- Remote activation and stop by call.
- Possibility of connecting up to 5 teams in series, whether they are incubators, hatchers or brooders.
- Compatible with all Falcon models.

#### UNINTERRUPTIBLE POWER SUPPLY SYSTEM

Line of uninterrupted power systems are specially indicated to safeguard any problem of power supply or transient voltage disturbances.  
Several autonomies of 1'15, 2'30, 5'30 and 7'30 hours respectively.

### INCUBATION CHAMBERS

#### FRIGO CHAMBER FOR STORING EGGS

· Essential in important hunting farms, substantial increases in the percentage of chicks born are achieved.

· Hermetic compressor system with evaporator placed inside the chamber with ventilation group.

#### TURNER CARTS FOR EGGS CONSERVATION

Two versions:

- Fully automatic model with tumbling system:
- Flip by manual cam: this version is the same as the previous one.

#### STACKABLE TRAYS

Stackable trays with capacity for 30 chicken eggs.  
Available in different colors.



### EGG CANDLES

#### ELECTROVOSCOPIE MK2

The digital egg electrodescope uses infrared emitters and sensors capable of amplifying 20,000 times more the cardiovascular signals of the embryo that is inside the egg.

#### CANDLING LED MASALLES

- Candling with high brightness LED technology.
- Emission of cold light no harmful to the embryo, long durability and low consumption.

#### CANDLING LAMP TYPE I

- Robust and effective ovoscope egg mirage equipped with bulb
- Traditional incandescent light (*not included*).

