



Masalles



**FALCON
CATALOGUE**

WELCOME

We present our updated line of Falcon Masalles equipment equipped with the highest technology applied in incubation, hatching and breeding equipment, specially designed and created for birds of prey.

In Masalles we have been manufacturing equipment for all kinds of gallinaceous, ratites and reptiles for more than 90 years. This extensive experience has allowed us to create a new specific line for raptors.

The manufacture and constant development of this line for raptors is a challenge in research and development. Thanks to a close collaboration with the best worldwide breeders we continue to develop and evolve our equipment taking into account the needs of incubation and development of raptors.

Throughout these years we have evolved at the same time as technology advances and this technological advancement allows us today to achieve levels of precision and adjustment that until recently were unthinkable in incubation equipment.

A good example is the innovative incubation systems developed specifically for our **FALCON C30-S, C30-SX, C30-SK & C20** incubator models which we have reviewed and improved in these new versions.

These models include our revolutionary embryonic cooling system **ECTS-Cool** thermal shock, **O₂ ADVANCE** controlled oxygen renewal system, which allows you to program periodic oxygen renewals or our fully programmable "NATAP" advanced turning system offering the possibility to each breeder to create the most appropriate parameters according to the species to be incubate.

We complement our Falcon Masalles product line with a new essential equipment for any incubation room:

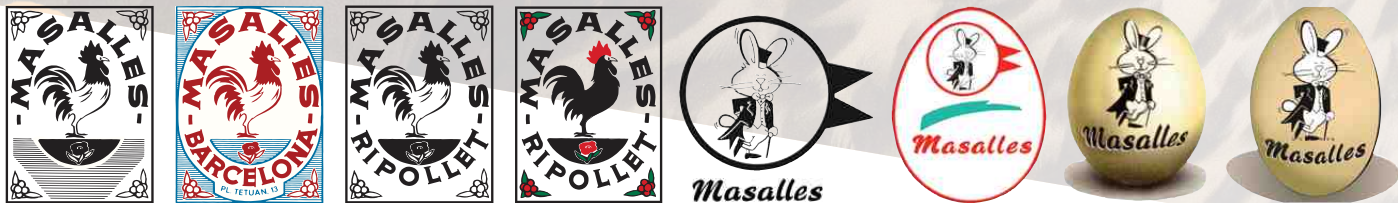
CHAMBER PHC Masalles preheating chamber. The implementation of this preheating process in the first incubation phase is a major important step in the artificial incubation cycle. The **CHAMBER PHC** Masalles chamber allows us to carry out the fully controlled preheating process, guaranteeing an optimum level of biosecurity before starting the incubation period.

Following the same line, we have our renewed models of **HATCHER FALCON RHT-500 & BROODER FALCON RHT-500** both equipped with new and renewed **RHT** (Radial Heat Technology) radial heating systems and specific variable ventilation systems that guarantee an ideal complement for our incubation room.

Committed to the importance of offering products with the best technology and biosafety, we have focused on improving our products at all levels. We are so convinced of our commitment to quality, reliability and durability with our customers that we offer all our products with **3 YEARS WARRANTY**.

INDEX

SET OF ICONS AND TECHNICAL SPECIFICATIONS	page 04
PREHEATING CHAMBER PHC	page 06
INCUBATOR FALCON C-20	page 08
INCUBATOR FALCON C-30S	page 10
INCUBATOR FALCON C-30SX	page 12
INCUBATOR FALCON C-30SK	page 14
HATCHER FALCON RHT-500	page 16
BROODER FALCON RHT-500	page 18
VITAMIN COMPLEX & PROBIOTIC	page 20
DISINFECTANTS	page 22
INCUBATION ACCESORIES	page 24



Masalles

SET OF ICONS AND TECHNICAL SPECIFICATIONS

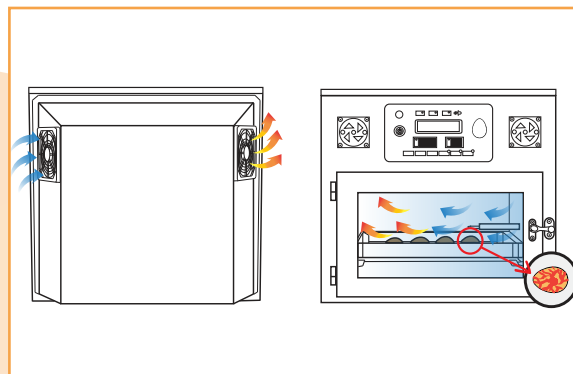


ECTS

Embryonic cooling by thermal shock

This cooling technique is specially developed for the Falcon line. A difference from our **NCDP-COOL**- controlled cooling system used throughout the line of Falcon incubators, those have a sophisticated injection and extraction of fan forced air that allows to do an ultra fast cooling during the incubation process. The use of this specially focused cooling technique for birds of prey positively strengthens a rapid formation of the blood vessels of the embryo using it during the incubation and development process. The automatic cooling system offers the latest parameters Programmable:

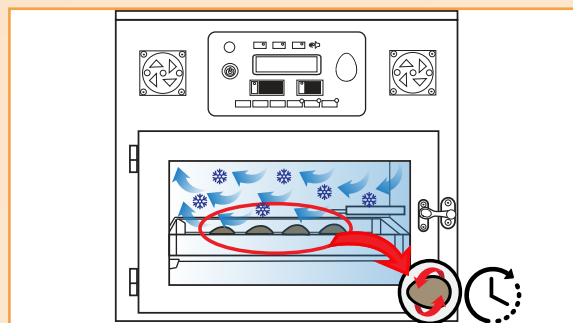
- 1- Cooling Intervals (1h to 24h)
- 2- Cooling temperature from SET (-0.2 ° C to -20 ° C)
- 3- Duration of the cooling process (1 to 59 minutes)



O₂ ADVANCE

Programmable function of oxygen/air renewal

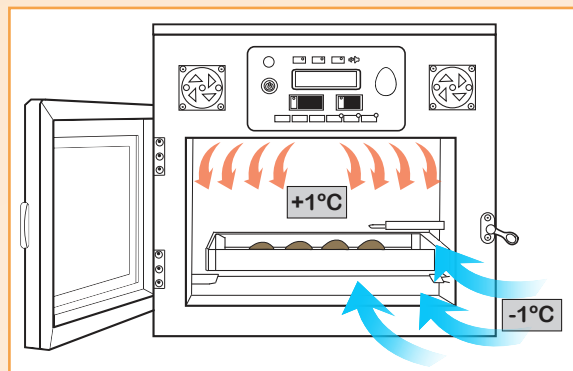
Programmable oxygen exchange function when flipping. This function, technically called **O₂ ADVANCE**, allows automatic fan forced air renovations from the outside to the incubation chamber at the same time as the eggs are turned over. It is inspired by the technique used by birds, since when they rise to turn the eggs receiving a cooling and this rapid change of temperature is specially important for birds of prey. With this system the interior of the air chamber of the egg produces an exchange of gases obtaining always that the air is oxygenated, favoring a better chorio-allantoic respiration. This function works totally independent of the **ECTS** cooling system and the activation of this function is programmable in intervals of 15 to 120 seconds.



AUTO-SWING CONTROL

Thermal auto compensation

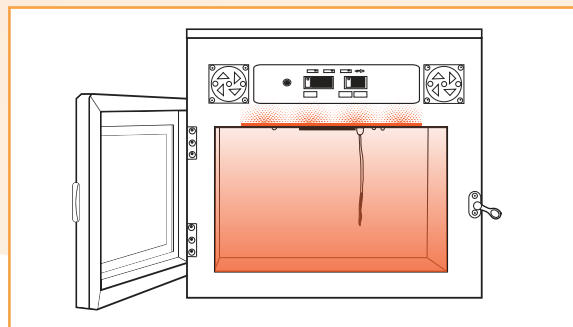
This function is specially designed to limit temperature oscillation when opening and closing the incubator door. Thanks to its variable electronic ventilation system it is able to detect variations of 0.1 tenth of °C and adjusts air circulation and heating guaranteeing perfect thermal stability.



RHT

Radial heat technology

Radial heating system that achieves stability, distribution and thermal flow unmatched against hatcheries with traditional heating systems. **RHT** Radial Heat Technology is a fully active system that is able to adapt to the needs of temperature and humidity combined with the variable speed electronic ventilation system that regulates the flow of air at all times. In operation, the **RHT** system is combined with a very low air velocity, imitating the static heat operation air flow, which is very beneficial for the drying of the egg membrane. Variable airflow ensures that the interior temperature of the birth chamber does not undergo sudden changes or temperature fluctuations as well as no movement within the birth chamber. Available in models: **Falcon Hatcher RHT 500**, **Brooder RHT 500**, **Falcon C20** and **Chamber PHC**.

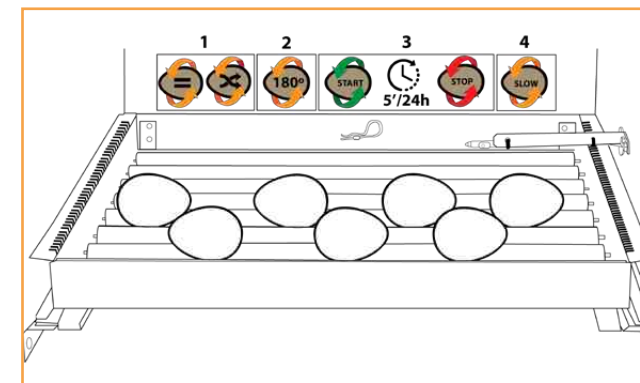


NATAP

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:

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

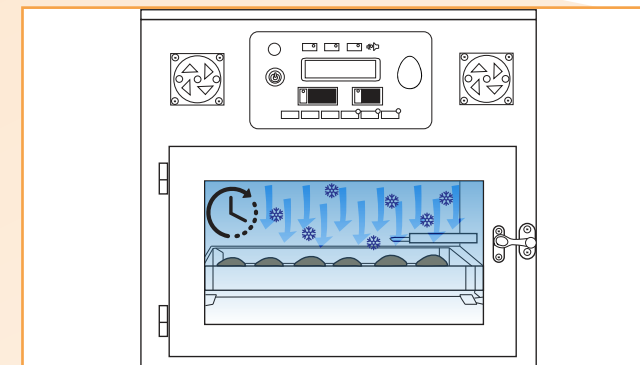


NCDP-COOL-

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.



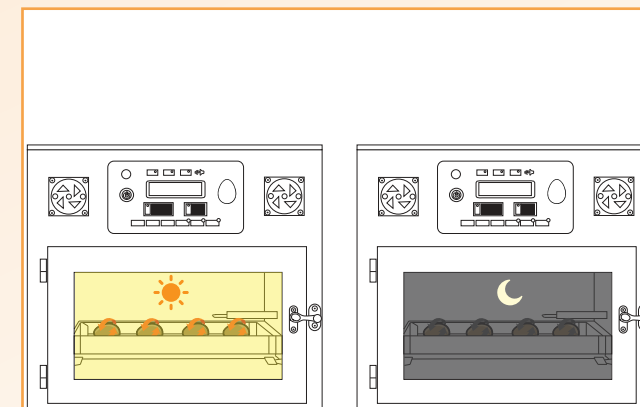
TURN DAY & NIGHT CONTROL

Attempting a closer approach to the nature, Masalles has developed **TURN DAY & NIGHT CONTROL**.

Taking advantage of our technology applied to the turning systems **NCDP-COOL-**, the **ECTS** thermal shock embryo cooling system and the renovation system **O₂ ADVANCE** this new function **TURN DAY & NIGHT CONTROL** offer a new world of possibilities specially indicated for breeders who are looking to pass all the incubation parameters of the species to be incubated in their model **Falcon C30-S**, **C30-SK** and **C30-SX**.

It has been demonstrated that the periods of turnings as well as thermal cooling are totally different during the day and night incubation periods of most birds. In order to maximize the incubation conditions of each species this new function allows to differentiate all the following parameters in day and night mode:

- Start and stop turn intervals programmable diurnal periods (1-24h)
- Start and stop turn intervals programmable night periods (1-24h)



PID

Proportional interactive derivate.



DWOP

Double Wall One Piece

Manufacturing system Masalles by injection of polyester of a single piece. Available on all models.

ANTIESTATIC



INOX



FIREPROOF



Available on all models.

PREHEATING CHAMBER PHC

Art.: 1200-0720

GENERAL FEATURES

- Cabinet made by polyester double wall using the system DWOP.
- Door with panoramic methacrylate window with double air chamber.
- Interior completely made of stainless steel with electro polished treatment.
- 1 incubation tray with adjustable rollers.
- LED interior light with timed auto-off.

ELECTRONIC CONTROL SYSTEM

- PID electronic control with programmable digital temperature and humidity.
- **DISPLAY-LED 32-character** LCD screen with LED lighting.
- Language selection.
- Decimal humidity programming range from **10% RH to 70% RH**
- Programming range of decimal temperature scale from:
20.0°C to 40.0°C (68°F to 104°F)

VENTILATION SYSTEM

- Electronic ventilation system with automatic variable speed.
- RHT** radial heating system.

PREHEATING PHC SYSTEM

- Natural preheating system with programmable functions:
 - Initial temperature program **10°C a 40°C**)
- Preheating process period programmable:
 - Minimum and maximum period preheating program (**1 hour to 7 days**)

TURNING SYSTEM

- Automatic turning system by dragging and programmable functions of:
- Fixed / Random turning Programming System.
- Programmable start and stop turning intervals.
- Turn interval (**15 minutes - 24 hours**)

TECHNICAL SPECIFICATIONS



Double Wall One Piece

Cabinet made of double wall of one piece manufactured by injection of expanded polyethylene foam (EPF). It offers a superior insulating level and total sealing..



Antiestatic protection

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



Fireproof protection

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



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 Automatic Turning Aleatory Programmable

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.



RHT

Radial Heat Technology is a fully active system that is able to adapt to the needs of temperature and humidity combined with the variable speed electronic ventilation system that regulates the flow of air at all times.



POWER, MEASURES AND WEIGHT

Single phase operation	230V - 50/60Hz
Average power consumption	90 W/h
Dimensions with packaging	69x69x78 cm
Weight approx	25 Kg

PREHEATING CHAMBER PHC



We present our **CHAMBER PHC** preheating chamber specifically developed and designed to perform the preheating process before starting the incubation process in incubation equipment of the **MASALLES FALCON** line.

Preheating the eggs before passing them to the incubator is a very important step in the incubation cycle, the preheating technique being a vital step towards a correct and effective incubation process as natural as possible.

Inadequate incubation times and embryo malformation can be caused by poor preheating.

Performing a controlled preheating prevents condensation on the surface of the eggshell and prevents future fungus from occurring in the pores. This problem in a high percentage of occasions is common in processes of artificial incubation and in many occasions if the embryos are weak due to consanguinity or a bad feeding will cause them the death in a phase of incubation already advances.

The **MASALLES CHAMBER PHC** preheating chamber allows us to perform all this fully controlled preheating process.

INCUBATOR FALCON C-20

Art.: 1200-0710

GENERAL FEATURES

- Cabinet made by polyester double wall using the system DWOP.
- Door with panoramic methacrylate window with double air chamber.
- Interior completely made of stainless steel with electro polished treatment.
- 1 incubation tray with adjustable rollers.
- LED interior light with timed auto-off.

ELECTRONIC CONTROL SYSTEM

- PID electronic control with programmable digital temperature and humidity.
- **DISPLAY-LED 32**-character LCD screen with LED lighting.
- 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**)

VENTILATION & HUMIDITY SYSTEM

- Electronic ventilation system with variable speed.
- RHT** radial heating system.
- Automatic humidity system type **HS-SINF** with external tank. (optional)

COOL SYSTEM

- Natural Cool Down Programmable **NCDP** with programmable functions:
- Cooling intervals (**1h** to **24h**)
- Cooling period duration (**1** to **59 minutes**)
- Cooling temperature with respect to SET (**-0.2°C** to **10°C**)

TURNING SYSTEM

- Automatic turning system by dragging with adjustable rollers and programmable functions of:
- Fixed / Random** turning Programming System.
- Programmable start and stop turning intervals.
- Turn interval (**15 minutes** - **24 hours**)

TECHNICAL SPECIFICATIONS



Double Wall One Piece

Cabinet made of double wall of one piece manufactured by injection of expanded polyethylene foam (EPF). It offers a superior insulating level and total sealing..



Antiestatic protection

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



Fireproof protection

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



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.



Natural Automatic Turning Aleatory Programmable

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.



RHT

Radial Heat Technology is a fully active system that is able to adapt to the needs of temperature and humidity combined with the variable speed electronic ventilation system that regulates the flow of air at all times.

INCUBATOR FALCON C-20



POWER, MEASURES AND WEIGHT

Single phase operation	230V - 50/60Hz
Average power consumption	80 W/h
Dimensions with packaging	65x50x40 cm
Weight approx	20 Kg

OPTIONS AND ACCESSORIES

Automatic Humidity System HS-SINF	Art.: 1100-0261
Falcon calibrated thermometer 300mm NO2	Art.: 1100-0024
Support for calibrated thermometer 300mm NO2	Art.: 1100-00231

GENERAL FEATURES

- Cabinet made by polyester double wall using the system DWOP.
- Door with panoramic methacrylate window with double air chamber.
- Interior completely made of stainless steel with electro polished treatment.
- 1 incubation tray with adjustable rollers.
- LED interior light with timed auto-off.

ELECTRONIC CONTROL SYSTEM

- PID electronic control with programmable digital temperature and humidity.
- **DISPLAY-LED 32**-character LCD screen with LED lighting.
- 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**)

VENTILATION & HUMIDITY SYSTEM

- Electronic ventilation system with automatic variable speed.
- Auto-Swing control™** prevents the temperature oscillations when the door is opening and closing.
- Automatic humidity system type **HS-SINF** with external tank. (optional)

COOL SYSTEM

- Cool system **ECTS™-Cool-** by thermal shock to the embryo. It makes air changes injecting cool air totally programmable in:
- Cooling intervals (**1h to 24h**)
 - Cooling temperature with respect to the SET (**-0,2°C** to **-20°C**)
 - Duration of the cooling period (**1 to 59 minutes**)

TURNING SYSTEM

Automatic turning system by dragging with adjustable rollers and programmable functions of:

- Turning selection programmable **Fixed / Random**.
- Slow turning speed mode for special incubations.
- Programmable intervals of turning.
- Programmable of turns from (**5 minutes - 24 hours**)

TECHNICAL SPECIFICATIONS

**Double Wall One Piece**

Cabinet made of double wall of one piece manufactured by injection of expanded polyethylene foam (EPF). It offers a superior insulating level and total sealing..

**Antiestatic protection**

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

**Fireproof protection**

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

**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 specially for eggs of raptors.

**Natural Automatic Turning Aleatory Programmable**

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.

**Dynamic Day & Night Control**

Turning function **TURN DAY & NIGHT CONTROL™** to program day/night different turns.

**O₂ ADVANCE**

Programmable System oxygen renewal **O₂ ADVANCE** performs renovations controlled oxygen through the cold air forced entry



ADJUSTABLE HEIGHT SENSOR

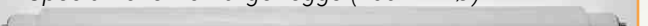


EGG ROLLER

Standard roller



Special roller for larger eggs (+50 mm Ø)



POWER, MEASURES AND WEIGHT

Single phase operation	230V - 50/60Hz
Average power consumption	180 W/h
Dimensions with packaging	69x69x78 cm
Weight approx	30 Kg

OPTIONS AND ACCESSORIES

Alarm module GSM with error warning via mobile phone	Art.: 1200-0315
Automatic Humidity System HS-SINF	Art.: 1100-0261
Falcon calibrated thermometer 300mm NO2	Art.: 1100-0024
Support for calibrated thermometer 300mm NO2	Art.: 1100-00231



GENERAL FEATURES

- Cabinet made by polyester double wall using the system DWOP.
- Door with panoramic methacrylate window with double air chamber.
- Interior completely made of stainless steel with electro polished treatment.
- LED interior light with timed auto-off.

ELECTRONIC CONTROL SYSTEM

- PID electronic control with programmable digital temperature and humidity.
- **DISPLAY-LED 32**-character LCD screen with LED lighting.
- 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)**

VENTILATION & HUMIDITY SYSTEM

- Electronic ventilation system with automatic variable speed.
- Auto-Swing control™** prevents the temperature oscillations when the door is opening and closing.
- Automatic humidity system type **HS-SINF** with external tank. (optional)

COOL SYSTEM

- Cool system **ECTS™*-Cool-** by thermal shock to the embryo. It makes air changes injecting cool air totally programmable in:
- Cooling intervals (**1h to 24h**)
 - Cooling temperature with respect to the SET (**-0,2°C to -20°C**)
 - Duration of the cooling period (**1 to 59 minutes**)

TURNING SYSTEM

Automatic turning system by vertical positioning programmable functions of:

- **Configurable degrees tuning from 60 to 140°.**
- Turning selection programmable **Fixed / Random.**
- Slow turning speed mode for special incubations.
- Programmable intervals of turning.
- Programmable of turns from (**5 minutes - 24 hours**)

TECHNICAL SPECIFICATIONS



DWOP

Double Wall One Piece

Cabinet made of double wall of one piece manufactured by injection of expanded polyethylene foam (EPF). It offers a superior insulating level and total sealing..



EPA

Antiestatic protection

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



Fireproof

Fireproof protection

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



PID

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.



NCDP

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 specially for eggs of raptors.



NATAP

Natural Automatic Turning Aleatory Programmable

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.



NIGHT DAY

Dynamic Day & Night Control

Turning function **TURN DAY & NIGHT CONTROL™** to program day/night different turns.



O2 ADVANCE

O₂ ADVANCE

Programmable System oxygen renewal **O₂ ADVANCE** performs renovations controlled oxygen through the cold air forced entry



SPECIAL CONFIGURABLE DEGREES TURNING FROM 60 TO 140°



POWER, MEASURES AND WEIGHT

Single phase operation	230V - 50/60Hz
Average power consumption	180 W/h
Dimensions with packaging	69x69x78 cm
Weight approx	30 Kg

OPTIONS AND ACCESSORIES

Alarm module GSM with error warning via mobile phone	Art.: 1200-0315
Automatic Humidity System HS-SINF	Art.: 1100-0261
Falcon calibrated thermometer 300mm NO2	Art.: 1100-0024
Support for calibrated thermometer 300mm NO2	Art.: 1100-00231

INCUBATOR FALCON C-30SK

Art.: 1200-0330

GENERAL FEATURES

- Cabinet made by polyester double wall using the system DWOP.
- Door with panoramic methacrylate window with double air chamber.
- Interior completely made of stainless steel with electro polished treatment.
- LED interior light with timed auto-off.

ELECTRONIC CONTROL SYSTEM

- PID electronic control with programmable digital temperature and humidity.
- **DISPLAY-LED 32**-character LCD screen with LED lighting.
- 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**)

VENTILATION & HUMIDITY SYSTEM

- Electronic ventilation system with automatic variable speed.
- Auto-Swing control™** prevents the temperature oscillations when the door is opening and closing.
- Automatic humidity system type **HS-SINF** with external tank. (optional)

COOL SYSTEM

- Cool system **ECTS™*-Cool-** by thermal shock to the embryo.
- It makes air changes injecting cool air totally programmable in:
- Cooling intervals (**1h** to **24h**)
 - Cooling temperature with respect to the SET (**-0,2°C** to **-20°C**)
 - Duration of the cooling period (**1** to **59 minutes**)

TURNING SYSTEM

- Automatic NATAP turning system by dragging. Turning adjustable in height and degree of rotation.
- New height adjustable turning tray. Size available for:

PEREGRINE FALCON & GYRFALCON

- Turning selection programmable **Fixed / Random**.
- Slow turning speed mode for special incubations.
- Programmable intervals of turning.
- Programmable of turns from (**5 minutes - 24 hours**)

TECHNICAL SPECIFICATIONS



Double Wall One Piece

Cabinet made of double wall of one piece manufactured by injection of expanded polyethylene foam (EPF). It offers a superior insulating level and total sealing..



Antiestatic protection

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



Fireproof protection

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



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 specially for eggs of raptors.



Natural Automatic Turning Aleatory Programmable

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.



Dynamic Day & Night Control

Turning function **TURN DAY & NIGHT CONTROL™** to program day/night different turns.



O₂ ADVANCE

Programmable System oxygen renewal **O₂ ADVANCE** performs renovations controlled oxygen through the cold air forced entry

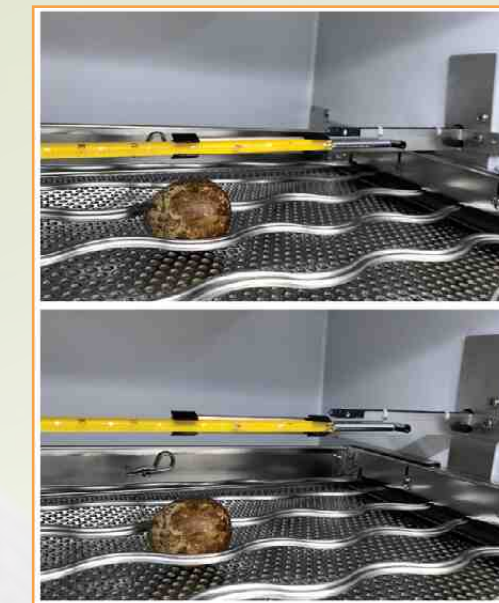
INCUBATOR FALCON C-30SK



POWER, MEASURES AND WEIGHT

Single phase operation	230V - 50/60Hz
Average power consumption	180 W/h
Dimensions with packaging	69x69x78 cm
Weight approx	30 Kg

OPTIONAL ADJUSTABLE HEIGHT SENSOR



OPTIONS AND ACCESSORIES

Alarm module GSM with error warning via mobile phone	Art.: 1200-0315
Automatic Humidity System HS-SINF	Art.: 1100-0261
Falcon calibrated thermometer 300mm NO2	Art.: 1100-0024
Support for calibrated thermometer 300mm NO2	Art.: 1100-00231
Incubation tray peregrine Falcon (32)	Art.: 1100-0364
Incubation tray Gyr Falcon (39)	Art.: 1100-0363



HATCHER FALCON RHT-500

Art.: 1200-0640

GENERAL FEATURES

- Cabinet made by polyester double wall using the system DWOP.
- Door with panoramic methacrylate window with double air chamber.
- Internal supports made of stainless steel with electro polished treatment.
- Hatching tray.
- LED interior light with timed auto-off.

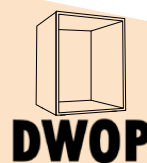
ELECTRONIC CONTROL SYSTEM

- PID electronic control with programmable digital temperature and humidity.
- 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)

VENTILATION & HUMIDITY SYSTEM

- Electronic ventilation system with automatic variable speed.
- Auto-Swing control™** prevents the temperature oscillations when the door is opening and closing.
- Automatic humidity system type **HS-SINF** with external tank (Optional)

TECHNICAL SPECIFICATIONS



Double Wall One Piece

Cabinet made of double wall of one piece manufactured by injection of expanded polyethylene foam (EPF). It offers a superior insulating level and total sealing..



Antiestatic protection

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



Fireproof protection

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



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.



Auto-Swing Control

This function is specially designed to limit temperature oscillation when opening and closing the hatcher door. Thanks to its variable electronic ventilation system it is able to detect variations of 0.1 tenth of C° and adjusts air circulation and heating guaranteeing perfect thermal stability.



RHT

Radial Heat Technology is a fully active system that is able to adapt to the needs of temperature and humidity combined with the variable speed electronic ventilation system that regulates the flow of air at all times.

POWER, MEASURES AND WEIGHT	
Single phase operation	230V - 50/60Hz
Average power consumption	100 W/h
Dimensions with packaging	69x69x78 cm
Weight approx	30 Kg

OPTIONS AND ACCESSORIES	
Alarm module GSM with error warning via mobile phone	Art.: 1200-0315
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Falcon calibrated thermometer 300mm NO2	Art.: 1100-0024
Support for calibrated thermometer 300mm NO2	Art.: 1100-00231



HATCHER FALCON RHT-500



Our range of incubators is completed with our **FALCON RHT-500 HATCHER** specifically manufactured and developed for birds of prey. It is the ideal complement to use with our line of incubators and hatchers **MASALLES FALCON**.

Equipped with radial heating technology and manufactured specifically for the **FALCON RHT-500 HATCHER** called **RHT (Radial Heat Technology)**, it achieves unmatched thermal flux stability against hatchers with traditional fan forced ventilation systems.

The **RHT** heating system is a fully active system that is able to adapt according to the programmed temperature and humidity needs.

Combined with the electronic variable speed ventilation system, which regulates the air flow constantly, ensures that the internal temperature of the chamber does not undergo sudden changes or oscillations.

The smooth operation of the **RHT** heating system is combined with a very low air speed, giving a very stable heating.

It comes with a perforated inner tray to put the eggs with the recipient that the client wants to use.

In Masalles we are committed to the importance of offering products with the best technology and biosecurity. Making the models of the Falcon line all in stainless steel fittings, together with our **DWOP** manufacturing system, which guarantees a single piece of cabinet made of double-walled polyester with a high degree of insulation and tightness that give the whole a quality that meets our most demanding clients.

BROODER FALCON RHT-500

Art.: 1200-0630

GENERAL FEATURES

- Cabinet made by polyester double wall using the system DWOP.
- Door with panoramic methacrylate window with double air chamber.
- Internal supports made of stainless steel with electro polished treatment.
- LED interior light with timed auto-off.

ELECTRONIC CONTROL SYSTEM

- PID electronic control with programmable digital temperature and humidity.
- 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**)

VENTILATION & HUMIDITY SYSTEM

- Electronic ventilation system with automatic variable speed.
- Variable electronic ventilation function **O₂ADVANCE** that performs controlled air/oxygen renewal.
- **Auto-Swing control**™ prevents the temperature oscillations when the door is opening and closing
- Automatic humidity system type **HS-SINF** with external tank (Optional)

TECHNICAL SPECIFICATIONS



Double Wall One Piece

Cabinet made of double wall of one piece manufactured by injection of expanded polyethylene foam (EPF). It offers a superior insulating level and total sealing..



Antiestatic protection

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



Fireproof protection

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



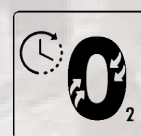
Proportional Interactive Derivate

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.



Auto-Swing Control

This function is specially designed to limit temperature oscillation when opening and closing the brooder door. Thanks to its variable electronic ventilation system it is able to detect variations of 0.1 tenth of C° and adjusts air circulation and heating guaranteeing perfect thermal stability.



O₂ ADVANCE

Programmable System oxygen renewal
O₂ ADVANCE performs renovations controlled oxygen through the cold air forced entry



RHT

Radial Heat Technology is a fully active system that is able to adapt to the needs of temperature and humidity combined with the variable speed electronic ventilation system that regulates the flow of air at all times.

POWER, MEASURES AND WEIGHT	
Single phase operation	230V - 50/60Hz
Average power consumption	100 W/h
Dimensions with packaging	69x69x78 cm
Weight approx	30 Kg

OPTIONS AND ACCESSORIES	
Alarm module GSM with error warning via mobile phone	Art.: 1200-0315
Automatic Humidity System HS-SINF	Art.: 1100-0261
Falcon calibrated thermometer 300mm NO2	Art.: 1100-0024
Support for calibrated thermometer 300mm NO2	Art.: 1100-00231



BROODER FALCON RHT-500



Our range of incubators is completed with our **FALCON RHT-500 BROODER** specifically manufactured and developed for birds of prey. It is the ideal complement to use with our line of incubators and hatchers **MASALLES FALCON**.

Equipped with radial heating technology and manufactured specifically for the **FALCON RHT-500 BROODER** called **RHT (Radial Heat Technology)**, it achieves unmatched thermal flux stability against brooders with traditional fan forced ventilation systems.

The **RHT** heating system is a fully active system that is able to adapt according to the programmed temperature and humidity needs.

Combined with the electronic variable speed ventilation system, which regulates the air flow constantly, ensures that the internal temperature of the chamber does not undergo sudden changes or oscillations.

The smooth operation of the **RHT** heating system is combined with a very low air speed, giving a very stable heating.

It is important to emphasize that, unlike a hatcher, the brooder needs a periodic controlled oxygen renewal. Thanks to our **O₂ Advance** air renewal system, a forced air renewal is carried out permanently inside the brooder chamber.

This controlled renewal is vital from a technical and biological point of view. A brooder with little or inadequate renewal of controlled oxygen can lead to the proliferation of bacteria such as: **E. COLI SPP, PROTEUS SPP, SALMONELLA, STREPTOCOCCUS, STAPHYLOCOCCUS SPP** or **PSEUDOMONAS SPP**.

In Masalles we are committed to the importance of offering products with the best technology and biosecurity. Making the **models of the Falcon line all in stainless steel fittings**, together with our **DWOP** manufacturing system, which guarantees a single piece of cabinet made of double-walled polyester with a high degree of insulation and tightness that give the whole a quality that meets our most demanding clients.

LED CANDLING LAMP



Ref.: 1100-0024
Candling lamp with high brightness of LED technology.
· Equipped with 6 LED is suitable for all species.

CALIBRATED THERMOMETER



Ref.: 1100-0024
Calibrated thermometer 300mm NO2
· Scale accuracy of 0.01°C.

HYGROMETER BOTTLE



Ref.: 1100-0065
· Hygrometer bottle

DIGITAL THERMOMETER



Ref.: 1100-0030
· Digital thermometer.

SYNCROMETER



Ref.: 1100-0080
· Temperature and humidity reading.

CANDLING LAMP MK2



Ref.: 1100-0185
· Digital Candling Lamp transmitters and infrared sensors capable of amplifying 20,000 times more cardiovascular signals than the embryo inside the egg.
· Instant Monitoring embryo from 6 days.

PRECISION SCALE 0,01GR



Ref.: 1100-0290
Technical features:
Capacity: 300g
Dimensions: 130mm
Resolution: 0,01
Battery: 1.3AH

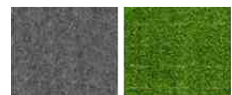
CARRIER RAPTORS INDIVIDUAL & DOUBLE EXPORT



CARRIER RAPTORS 45X75X45 DOUBLE EXPORT ADAPTED TO THE CONTAINER 20 OF IATA (EXPORT)
Low-cost shipping fee since they are provided as folded.
Side or top opening.
Reduced warehouse space.
Easy assembling, without machines, just your hands.
Possibility to put screws in holes already arranged.



CARRIER RAPTORS 40X60X40 INDIVIDUAL EXPORT EXPORT ADAPTED TO THE CONTAINER 20 OF IATA (EXPORT)
Low-cost shipping fee since they are provided as folded.
Side or top opening.
Reduced warehouse space.
Easy assembling, without machines, just your hands.
Possibility to put screws in holes already arranged.



Optional lawn and carpet floor for both models

GSM MODULE ALARM



Ref.: 1200-0315
We present our new **GSM MODULE ALARM** specially designed to connect to our equipment **FALCON C30-S, C30-SX, C30-SK, HATCHER FALCON RHT-500** and **BROODER FALCON RHT-500**.

Failures for faults in installations or parts of electrical installations can lead to high costs. In Masalles we are aware of this problem and have developed an alarm module that works with our incubation, breeding and birth equipment to give to each breeder the chance to have his incubation room under control at all times at a distance.

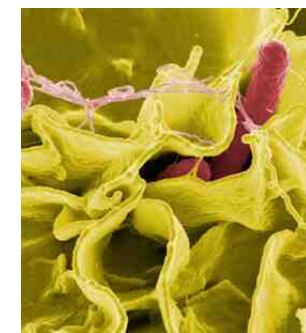
Thanks to our **GSM MODULE ALARM** it is possible to keep the hatchery in surveillance at all times with a mobile phone from anywhere.

Any anomaly detected by your incubation, breeding or birth equipment such as temperature alarms, power outages will be copied to your GSM alarm module and it will promptly notify your mobile phone by an SMS message or by phone call to phone that has programmed. This will allow you to start up your protocol of operation in case of any anomaly to safeguard the contents of your incubation, breeding or birth equipment.

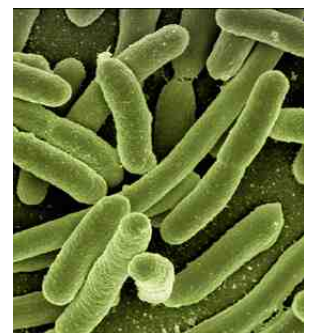
GSM Module Alarm for monitoring and control of remote equipment.

- Possibility of sending alarm messages to up to 6 mobile phones.
- Alarm by phone call.
- Alarm connection and disconnection via remote SMS.
- Activation and remote stop by call.
- Possibility to connect up to 5 equipment in series, whether incubators, hatchers or brooders.
- Compatible with all Falcon models.

DISINFECTION CHAMBER



Bacteria Salmonella



Bacteria Escherichia coli

Ref.: 1100-0024

Ultra violet UV disinfection chamber specially designed for the sterilization and disinfection of all kinds of eggs by UV radiation. The controlled application of UV irradiation allows to guarantee an efficient, simple and fast disinfection of the handle without having to carry out any type of additional gas extraction installation unlike the conventional gas chambers.

The ultraviolet rays conveniently used to affect a surface have the property of eliminating bacteria, fungi and viruses by 99%, which ensures a high level of control over the elimination of any bacteria, fungi or viruses on the surface of any egg which is correctly exposed with our UV chamber. The use of UV radiation leads to the generation of ozone whereby the irradiated material is subjected to the effect of both agents.

In order to guarantee a total protection against UV radiation, it has a drawer with a specific treatment that does not let the rays pass and keeps any exposure totally insulated from the outside. It also incorporates a security system that prevents the lamp from being switched on if the camera is partially open or immediately disconnected when the removable drawer is opened.

Specially recommended for clients who have incubation room properly conditioned.

UNINTERRUPTIBLE POWER SUPPLY SYSTEM

Our new line of uninterruptible power supply systems are specially designed to safeguard any problems of electrical supply or transient voltage alterations.

All of our equipment incorporates sophisticated security systems that report any anomalies that may occur, incorporating double safety thermostats, acoustic alarms and even if you purchase an optional module that we call "GSM output module" it is possible to connect up to 5 units with the same module and program a telephone alert to our mobile phone by phone call or SMS indicating a message pre-set by the user.

These messages can alert us to any alarm that occurs in our equipment or due to lack of electricity.

The power cut due to lack of electricity can cause disastrous losses and is a situation that is difficult to control, in the same line we present the models SM-100, SM-240 and SM-500 with autonomies of 1'15, 3 and 6 hours respectively.

With the addition of these auxiliary power supply systems, we will guarantee the power supply in the event of a power failure. In addition, they have current stabilizers, which ensures correct power supply in case of transient overvoltages.

We recommend the installation of these equipment in incubation halls where by location they are sometimes in a situation of lack of electricity supply or have electrical voltage anomalies.

We believe it convenient to put ourselves at your disposal to extend any information or to solve any doubt.

UPS. SM-100



Ref.: 1100-0222

Autonomy up to 1'15h* of duration.

UPS. SM-240



Ref.: 1100-0223

Autonomy up to 2'30h* of duration.

UPS SM-500



Ref.: 1100-0226

Autonomy up to 5'30h* of duration.

UPS SM-800



Ref.: 1100-0226

Autonomy up to 7'30h* of duration.

NOTES:



*Autonomy calculated for one unit.



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