

hatcher baskets and pallets

Hatcher baskets

Capacity chicken eggs	150
Length (mm)	800
Width (mm)	565
Height (mm)	130
Order reference	40 10 02 001

The standard capacity of Emka's hatcher baskets is 150 eggs per basket.

materials

- Made of high quality polypropylene for mechanical strength and chemical resistance.
- Pre-stressing during production guards against deformation.
- Suitable for automated handling and washing.
- Recyclable materials.



hatcher pallets

Model	2 x 150	1 x 150
Capacity chicken eggs	4800	2400
Length (mm)	1600	1600
Width (mm)	570	570
Height (fully loaded) (mm)	2045	2045
Order reference	40 20 12 001	40 20 12 002

The hatcher pallets for Emka's standard hatcher baskets, are available in 2 different sizes:

1. 2 x 150 totalling 32 hatcher trays of 150 eggs
2. 1 x 150 totalling 16 hatcher trays of 150 eggs

Material

- 100% anticorrosion treatment through hot galvanizing (submerging in liquid zinc bath).
- Durable high quality casters with brake.

design features

- Similar wheelbase as for the setter trolley for easy handling. Allowing a much easier steering of the pallet and improved stability of the hatcher tray stack.

For the 75 egg hatcher baskets, Emka has hatcher pallets with 4 x 75 (64 hatcher baskets) or 2 x 75 (32 hatcher baskets) capacity.

design features

- Emka's hatcher trays were specially designed for maximum ventilation (chick quality) and perfect washing (hygiene control).

Emka hatcher trays are fully compatible with standard hatcher flats of other suppliers and thus easy interchangeable.

Alternatively, a 75 egg hatcher basket is available (reference 40 10 02 002). This 75 egg basket can be used as a day-old chick box for up to 100 chicks.



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general information

EMKA's VH-model Hatchers are standard equipped with the intelligent EMKAWARE™-controller allowing both single- and multi-stage operations.

Emka's design guarantees a homogeneous air distribution within the incubator resulting in superior performance. Temperature control is achieved through double cooling (air and/or water) and electric heating. The self cleaning nozzle humidification is combined with TDS (Total Disinfecting System). The automatic ventilation system can optionally be equipped with CO₂-control. Turning by pneumatic cylinder.

All incubator cabinets are constructed using fibreglass reinforced polyester panels (woven mat) and anodised aluminium profiles. They are equipped with P.P. trays and 100% galvanic anticorrosion treated trolleys.

With hygiene in mind, the incubators are designed with obstruction free roof and smooth panelling for fast and thorough cleaning. The direct drive avoids cross contamination.

Fully CE-conform equipment.



advantages

USE

Emka incubators are ready for single- (all-in all-out) and multi stage incubation of chicken, turkey, duck, goose and game bird eggs.

HOMOGENEOUS AIR DISTRIBUTION

A homogeneous air distribution assures stable environmental conditions (temperature, humidity and CO₂-level).

The Emka incubator design with double spiral water cooling, combined with the superior EMKAWARE™-controller, guarantees excellent results and withstands even the toughest pharmaceutical standards.

Through customer satisfaction proven performance.

EMKAWARE™-CONTROLLER

Flexible high performance micro processor control system for monitoring and steering incubation.

The Emka incubator is operated by a large colour touch screen display.

Visualisation of all commands and settings through universal pictograms.

COOLING

All incubators are equipped with a double cooling system (air- and water-cooling) that can be used in all possible combinations.

Emka's water-cooling system, with its unique design (double spiral) and 15% more cooling capacity, guarantees an even distribution of temperature all over the incubator without hot or cold spots.

- seamless cooling coils
- no maintenance (no air-releases)
- unique designed forced air blower
- priority and delay in cooling system programmable by the hatchery manager

HEATING

Electric heating system with a monowire system for a safer and more reliable heating element.

Optional dual heating system with adjustable time for water heating.

TEGGNOLOGIC27 (option)

Teggnologic27 is a next generation incubator, operating with cooling water at a temperature of 27°C instead of the traditional 12 to 15°C. This brand-new, revolutionary technology leads to considerable advantages for both the hatchery and the day-old chicks.

VENTILATION

Automatic regulation of ventilation through a double controlled (=feed back) proportional servo-motor.

- perfect positioning of air-inlets and outlets for optimum distribution
- open design without dirt collectors
- automated possibility to evacuate surplus humidity at beginning of an incubation cycle
- automatic alarm function

CO₂-CONTROL (optional)

All Emka incubators can be fitted with CO₂-steering.

This is an optional feature of the ventilation system.

- our special CO₂-steering process boosts the quantity and quality of chicks
- dual wavelength infra red sensor for superior measurement
- choice between monitoring and steering
- totally adjustable parameters upon hatchery manager demands
- significant energy savings possible

HUMIDIFICATION

With self cleaning atomising spraying nozzles, instant evaporation is achieved by injecting the water spray directly in the most fierce air stream in the incubator.

- after each spray the nozzle is cleaned with an air purge (adjustable time)
- reduction of sedimentation in the nozzle head
- outside access for maintenance and control without opening incubator doors

TOTAL DISINFECTION SYSTEM

The Total Disinfection System (TDS) is a standard feature on every Emka model, and can be equipped for a hatchery centralized system or with a receptacle on each individual incubator (positioned inside central panel).

- distribution through the humidification nozzle
- user friendly
- safe for the operator (safety countdown display) and for the environment
- adjustable disinfection intervals and volumes
- disinfection counter

PNEUMATIC TURNING

For turning Emka uses a simple and easy design for a fail-safe operation.

- time adjustable turning cycle programmable in 3 positions
- absolute left/right turning with a correct and stable horizontal position
- no maintenance needed, no grease nipples
- turning counter and failure alarm

PULSATOR SYSTEM

Emka incubators have a direct drive for the pulsator to avoid cross contamination through openings of belt driven systems.

- direct-drive for fail safe operation and air distribution
- detection of speed and operation with a proximity sensor
- no maintenance
- power consumption savings
- pulsator designed for improved efficiency and performance

INCUBATOR CABINET

EMKA incubators are constructed using fibreglass (woven mat) reinforced polyester panels and anodised (20 µm) aluminium profiles for protection against corrosion.

- extreme high tensile strength and impact resistance
- superior insulation value
- large panels to avoid cold bridges (up to 7 m long for VH1152)

CENTRAL CONSOLE

Central console panel assuring easy access for control and maintenance of all active components from the front side of the incubator.

NETWORKING

All Emka controllers are equipped with necessary hard- and software ready to be used in a hatchery network. The MS Windows based EMKALINK™ hatchery management and supervision software is easy to install and user friendly.

- central monitoring and programming
- central operation, starting/stopping incubators
- central logging of all parameters
- centralized incubation program library
- central alarm handling

	VH 96-H	VH 144-H	VH 192-H	VH 288-H	VH 384-H
Capacity					
Chicken eggs	9600	14400	19200	28800	38400
Turkey eggs	7056	10584	14112	21168	28224
Dimensions					
Height (mm) (*)	2300	2300	2300	2300	2300
Highest point (mm)	2710	2710	2710	2910	2910
Width stand-alone (mm)	1940	2360	3480	3480	3480
Width add-on (mm)	1910	2330	3420	3420	3420
Depth (mm)	2120	2120	2120	2910	3640
Hatcher pallets					
2 x 150/pallet (**)					
Amount	2	3	4	4	8
Length (mm)	1600	1600	1600	1600	1600
Width (mm)	565	565	565	565	565
1 x 150/pallet (**)					
Amount	0	0	0	4	0
Length (mm)	810	810	810	810	810
Width (mm)	565	565	565	565	565
Hatcher baskets					
150 eggs/basket (**)					
Baskets per pallet	32	32	32	32 & 16	32
Total amount	64	96	128	192	256
Length (mm)	800	800	800	800	800
Width (mm)	565	565	565	565	565
Height (mm)	130	130	130	130	130
Controller					
Version	EMKAWARE™ v3+	EMKAWARE™ v3+	EMKAWARE™ v3+	EMKAWARE™ v3+	EMKAWARE™ v3+
Touch screen	7.4" TFT colour	7.4" TFT colour	7.4" TFT colour	7.4" TFT colour	7.4" TFT colour
Cooling					
System	air+water	air+water	air+water	air+water	air+water
Teggnologic27™	option	option	option	option	option
Heating					
Type	electric	electric	electric	electric	electric
Installes power (W)	3000	3000	3000	3000	3 x 2000
Ventilation					
Type	automatic	automatic	automatic	automatic	automatic
CO ₂ -control	option	option	option	option	option
Humidification					
System	nozzle	nozzle	nozzle	nozzle	nozzle
Supply (bar)	2 - 5	2 - 5	2 - 5	2 - 5	2 - 5
Disinfection					
System	automatic	automatic	automaticr	automatic	automatic
Pulsator					
Motor (W)	1100	1100	1100	2200	2200
Drive	direct	direct	direct	direct	direct
Type	aseptic	aseptic	aseptic	aseptic	aseptic
Frequency converter	option	option	option	option	option