setter trays and trolleys

setter tray

Capacity chicken eggs	150
Length (mm)	735
Width (mm)	510
Height (mm)	38
Order reference	40 10 01 001

Emka's standard setter tray for chicken eggs has a capacity of 150 eggs.

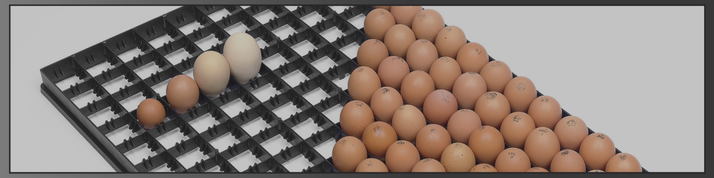
materials

- 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

innovative design

- Emka's setter trays were specially designed for optimum support of all sizes of eggs. This results e.g. in a reduced risk for cracking and breaking of eggs during transfer.
- Designed for optimum support during in-ovo injection.
- No unwanted light scattering during candling as compared to egg flats of other makes.
- No sharp edges that can hurt the user's hands during manipulation.

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



setter trolley

Capacity chicken eggs	4800
Length (mm)	1600
Width (mm)	570
Height (mm)	2045
Order reference	40 04 02 002



Emka's standard setter trolley has a capacity of 2 x 16 egg trays height, totalling 4800 eggs per trolley.

materials

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

durable design

- Functional design with special wheelbase for easy handling. Allowing a much easier steering of the trolley and assuring a smooth ride.
- Designed to reduce transportation costs and easy repair.
- Easy automatic blocking system in horizontal position during transportation.





EMKA INCUBATORS

Noordlaan 8
8520 Kuurne
Belgium

Tel. +32 (0) 56 35 62 07
Fax . +32 (0) 56 35 53 31

www.emka-incubators.com
info@ emka-incubators.com

VH-SETTERS

EMKA INCUBATORS

trusted hatchery equipment

general information

EMKA's VH-model Setters 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 CO_2-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 CO_2-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

CO_2-CONTROL (optional)
All Emka incubators can be fitted with CO_2-steering.
This is an optional feature of the ventilation system.
- our special CO_2-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-S	VH 144-S	VH 192-S	VH 288-S	VH 384-S	VH 576-S	VH 768-S	VH 1152-S
Capacity								
Chicken eggs	9600	14400	19200	28800	38400	57600	76800	115200
Turkey eggs	7056	10584	14112	21168	28224	-	-	-
Use								
Single stage	yes	yes	yes	yes	yes	yes	yes	yes
Multi stage	yes	yes	yes	yes	yes	yes	yes	yes
Dimensions								
Height (mm) (*)	2300	2300	2300	2300	2300	2300	2300	2300
Highest point (mm)	2710	2710	2710	2710	2910	2910	2910	2910
Width stand-alone (mm)	1940	2360	3480	4300	3480	4300	3480	4300
Width add-on (mm)	1910	2330	3420	4240	3420	4240	3420	4240
Depth (mm)	2120	2120	2120	2120	3640	3640	6860	6860
Trolleys								
Amount	2	3	4	6	8	12	16	24
Length (mm)	1600	1600	1600	1600	1600	1600	1600	1600
Width (mm)	570	570	570	570	570	570	570	570
Height (mm)	2045	2045	2045	2045	2045	2045	2045	2045
Setter trays								
150 eggs/tray								
Trays per trolley	32	32	32	32	32	32	32	32
Total amount	64	96	128	192	256	384	512	768
Length (mm)	735	735	735	735	735	735	735	735
Width (mm)	510	510	510	510	510	510	510	510
Height (mm)	38	38	38	38	38	38	38	38
Controller								
Version	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	
Cooling								
System	air+water	air+water	air+water	air+water	air+water	air+water	air+water	air+water
Teggnologic27™	option	option	option	option	option	option	option	option
Heating								
Type	electric	electric	electric	electric	electric	electric	electric	electric
Power (W) multi stage	3000	3000	3000	3000	3 x 2000	3 x 2000	6 x 1000	6 x 1000
Power (W) single stage	3000	3000	3000	3000	3 x 2000	3 x 2000	6 x 1500	6 x 2000
+ water heating	option	option	option	option	option	option	option	option
Ventilation								
Type	automatic		automatic		automatic		automatic	
CO_2-control	option	option	option	option	option	option	option	option
Humidification								
System	nozzle	nozzle	nozzle	nozzle	nozzle	nozzle	nozzle	nozzle
Supply (bar)	2 - 5	2 - 5	2 - 5	2 - 5	2 - 5	2 - 5	2 - 5	2 - 5
Disinfection								
System	automatic		automatic		automatic		automatic	
Turning								
System	pneumatic		pneumatic		pneumatic		pneumatic	
Pulsator								
Motor (W)	1100	1100	1100	1100	2200	2200	2 x 2200	2 x 2200
Drive	direct	direct	direct	direct	direct	direct	direct	direct
Type	aseptic	aseptic	aseptic	aseptic	aseptic	aseptic	aseptic	aseptic
Frequency convertor	option	option	option	option	option	option	option	option