

INTRODUCING THE

PrimoTech[®]
MAX

94

FROM

EmTech
HATCHERY SYSTEMS

THE WORLD'S HIGHEST DENSITY INCUBATION SYSTEM

The MAX94 system is based on EmTech's highly successful PrimoTech range. The only difference being that the air velocity and cooling capacity has been upgraded in proportion to the increase in capacity that the MAX94 tray provides.

It is very important to stress that it is the design and performance of the MAX94 setters themselves that enables the incubator to perform perfectly at such high densities. Anyone can design a high capacity tray but only EmTech can design an incubator to utilise this tray system without detriment to the performance of the setter and the eggs.

EmTech has made its excellent reputation in the industry for re-examining every single aspect of the incubation process. Being a relatively new company has afforded us the luxury of enabling and implementing the latest design ideas and technical innovations instead of having to retrofit changes to already established product lines often entrenched in long perpetuated design faults now far too difficult or expensive to change.

From the very construction of our incubator cabinets to trolley design, egg turning, environmental control and ventilation, EmTech has created what we call the 'EmTech Effect'. This guarantees a 0.6°C temperature bandwidth throughout the entire egg mass for the shortest hatch window and perfectly conditioned chicks ready for the farm without requiring the imposed correction of early feeding.

Egg trays were the next part of the incubation process that EmTech's highly experienced team have turned their

attentions to. There is a myriad of egg trays on the market today, each one is promoted to optimize hatchery performance, hold the egg safely, meet the highest hygienic standards and guarantee maximum durability. Nowadays many trays are now not as efficient as they once were for a number of reasons that include: larger egg size, trays becoming too heavy to manipulate safely, pressure to increase capacity in existing spaces and newer automation requirements, to name but a few.

For the hatchery owner looking either to expand or build a brand new hatchery, apart from the huge improvement in chick quality and numbers, the major advantage of the EmTech MAX94 system would be savings made from the reduced building footprint.

Lets take a typical medium to large size broiler hatchery setting two million chicks per week. This would require 36 PT24-MAX94/18 setters and 24 VT216-MAX188/18 hatcher. The total floor area for these 60 machines would be 1,594.6 m² (setters = 1,342 m² and hatcher = 252.6 m²) giving 1,222 eggs per week per m². If we then take a typical competitors systems, the closest match for an equal hatch would be 48 setters and 32 hatcher. The total floor area for these 80 machines would be 1,417.5 m² (setters = 1,417.5 m² and hatcher = 355 m²) giving 1,040 egg per week per m². **This clearly shows that the PrimoTech MAX94 floor density is 17.5% greater.**

If we take now typical building costs to be between £700 to £900 per square metre the saving on a typical 100m x 60m construction would be **£735,000 to £850,000.**

**17.5%
GREATER
FLOOR
DENSITY**

**162,432
EGGS**



PrimoTech MAX94 Single Stage Setters

	Width* mm	Depth	Height	Capacity 16 stacks	Capacity 17 stacks	Capacity 18 stacks
PrimoTech MAX94 PT2	1,900	2,147	3,117	12,032	12,784	13,536
PrimoTech MAX94 PT4	3,250	2,147	3,117	24,064	25,568	27,072
PrimoTech MAX94 PT6	3,250	3,079	3,117	36,096	38,352	40,608
PrimoTech MAX94 PT12	3,250	5,830	3,117	72,192	76,704	81,216
PrimoTech MAX94 PT18	3,250	8,674	3,117	108,288	115,056	121,824
PrimoTech MAX94 PT24	3,250	11,470	3,117	144,384	153,408	162,432

* common walled machines will be 50mm less width

VidaTech MAX94 Hatchers

	Width* mm	Depth	Height	# Baskets	#Dollies/Stack	Capacity
VidaTech MAX94 VT64	1,955	2,100	3,117	64	2/16	12,032
VidaTech MAX94 VT68	1,955	2,100	3,117	68	2/17	12,784
VidaTech MAX94 VT72	1,955	2,100	3,117	72	2/18	13,536
VidaTech MAX94 VT128	3,440	2,100	3,117	128	4/16	24,064
VidaTech MAX94 VT136	3,440	2,100	3,117	136	4/17	25,568
VidaTech MAX94 VT144	3,440	2,100	3,117	144	4/18	27,072
VidaTech MAX94 VT192	3,440	3,060	3,117	192	6/16	36,096
VidaTech MAX94 VT204	3,440	3,060	3,117	204	6/17	38,352
VidaTech MAX94 VT216	3,440	3,060	3,117	216	6/18	40,608

* common walled machines will be 50mm less width

The MAX 94 Setter Tray and MAX94 Hatcher Basket have been developed to fulfil every single criteria required by today's poultry professionals.

Capacity – The MAX94 tray has the density of all current incubator trays with 6,768 eggs per 18 stack trolley making a 24 trolley machine capacity 162,432 eggs

Stackability - For the Max94 system we offer two tray types: **Standard MAX94 Tray** (without pillars) is compatible with 16, 17 and 18 stack trollies. The **Stackable Max94 Tray** (with posts) is compatible with 16 and 17 stack trollies.

Ergonomics – the tray is extremely easy to handle with the weight of only 94 eggs to manipulate. It is strong, heat, chemical and crack resistant and designed with longevity as a key objective.

Automation friendly – The tray is bi-symmetrical, so orientation is not an issue at transfer or loading into the setter trolley.

Hygiene – the EmTech MAX94 tray is designed for ease of cleaning and sanitisation.

Egg security – the egg cradle is the optimum design to hold the egg for maximum performance.

Cost per egg - the tray is perfect for all sizes of operations and with the reduced cost per egg it is more affordable than most other tray systems.

Hatchability and chick quality – this tray has now been in continuous operation at a hatchery in Poland for several



The Stackable MAX94 Tray

Note:
A non-stackable MAX94 tray is also available for 16, 17 and 18 stack trolley systems

years. The hatchability results (available on request) have been excellent for flocks of all ages with top chick quality scores.

The EmTech MAX94 chick basket compliments the 94 egg tray perfectly and is ideal for automated processes with two MAX94 trays per basket.

The MAX94 basket is a tried and tested design, strong, easy to handle - hard wearing and chick friendly.



The MAX94 chick basket