



Brochure

# HatchTraveller

## Chick Transport





# HatchTraveller

Maintaining quality on the road

**During the first days of its life, a chick is unable to regulate its own body temperature. Because of this, perfect transport conditions are necessary to maintain chick quality when delivering them from the hatchery to the poultry house. If the chick's body temperature is kept at a constantly stable 104°F, it will not have to waste valuable nutritional energy – which is a key factor in safeguarding chick quality during transport.**

## Maximizing chick quality

The HatchTraveller is equipped with a unique climatecontrol system that is based on HatchTech's laminar airflow technology and patented perforated radiators. The system ensures that the temperature of every chick in the truck is kept at a constant 104°F – the neutral body temperature zone which enables chicks to make optimum use of its nutrients (yolk). This gives it the best possible start for growth and ongoing development, so that it can later achieve its full growth potential.





## Increased transport capacity

In the unique HatchTraveller concept, chick baskets are placed side-by-side – no space in between is required. This makes it possible to transport significantly more day-old chicks – up to 30% per truckload – compared to traditional transport systems of equal dimensions. What's more, when baskets are in this side-by-side position, the treated air is automatically forced through the baskets, and is not deflected around them. When air passes evenly and directly by the chick, it makes it much easier for the chick to release its own heat, and stay at the ideal 104°F at all times.

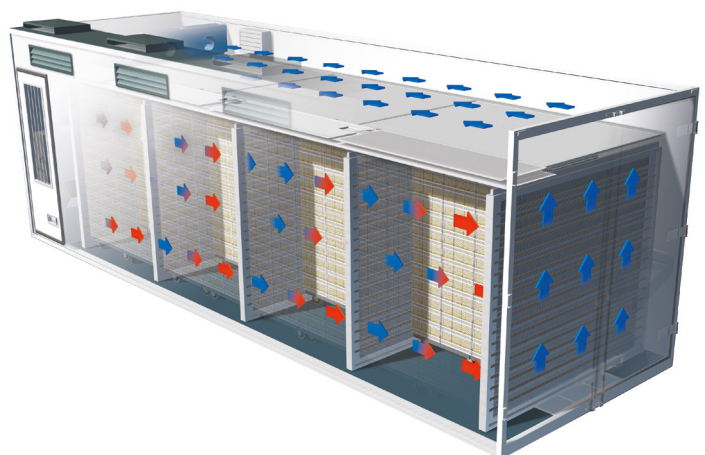
## How does it work?

The HatchTraveller is equipped with a unique climate control system, based on HatchTech's patented concept of laminar airflow:

- Directly driven fans continuously force air through the perforated radiators, ensuring uniform airflow inside the truck.
- Unlike traditional systems, the air in the HatchTraveller does not escape around the baskets, but flows through the baskets – allowing the chicks in the baskets to effectively release their own heat to the air.

- This air passes through a radiator, where the heat is absorbed by the cooling medium within the radiator (a mix of glycol and water).
- Based on information from sensors, the temperature of the cooling medium in the radiators is continuously adjusted to keep the air in the truck at the perfect temperature.
- For air cooling, each radiator is linked to a chiller system which operates completely independently of outside air conditions.
- Outside air is only used for oxygen supply. A CO<sub>2</sub> sensor monitors and controls the air inlet.

These factors combined make it possible to transport more chicks at one time with the guarantee that optimum chick quality will be maintained.







# Technical information

## Perfect in any and all climate conditions

Unlike traditional systems, the HatchTraveller functions completely independently of outside climate conditions. Whether it is hot or cold, day or night,



summer or winter – the conditions in the truck will always be completely stable and 100% controlled.

The HatchTraveller does not depend on the outside air for cooling, as this is completely done via the perforated radiators and the chillers they're linked to. The only time that the system's air inlet opens is when oxygen is required. This amount of outside air entering the system is so minimal, it will not interfere with the ambient temperature inside.

- Suitable for moderate and extreme climate conditions.
- Suitable for both plastic and cardboard crates (HatchTech baskets are recommended for their excellent air flow passage).
- Suitable for both chick and egg transport (on request).
- HatchTravellers can be connected to the electricity network, making it possible to use them as chick storage rooms at hatcheries or for ferry transport.

## Excellent body and floor construction

The HatchTraveller is supplied as an independent box. The floor of the box is plain, but profiled, for easy cleaning and maximum grip, and does not feature any hard-to-clean ventilation channels. Doors and panels are constructed of first-class insulated panels for maximum strength.

- Self-supporting insulated floor: 115 mm; suitable for installation on any brand of truck chassis.
- Insulated wall panels: 45 mm; panels are smooth and easy to clean.
- Insulated rear doors: 65 mm; equipped with stainless steel rear portal.
- Equipped with stairs and outside illumination according to EU regulations.

## Fully automated system

The HatchTraveller is a complete automated and controlled system.

- Full-color, touch-screen controller in the driver's cabin.
- Continuous monitoring and registration of:
  - Air temperatures
  - CO<sub>2</sub> levels
  - Humidity levels
- Contains back-up facilities (cooling and heating system, ventilation system and an energy power set) and manual control in case of emergencies.

## Independent, stand-alone system

The HatchTraveller functions completely independently from the truck, except the fuel tank. And because the HatchTraveller will not depend on external air for cooling, the system will always function perfectly, even when the truck is not moving or moving slowly. When driving up hills, in traffic jams, or during driver breaks, the generator and cooling system will continue creating perfect climate conditions inside.



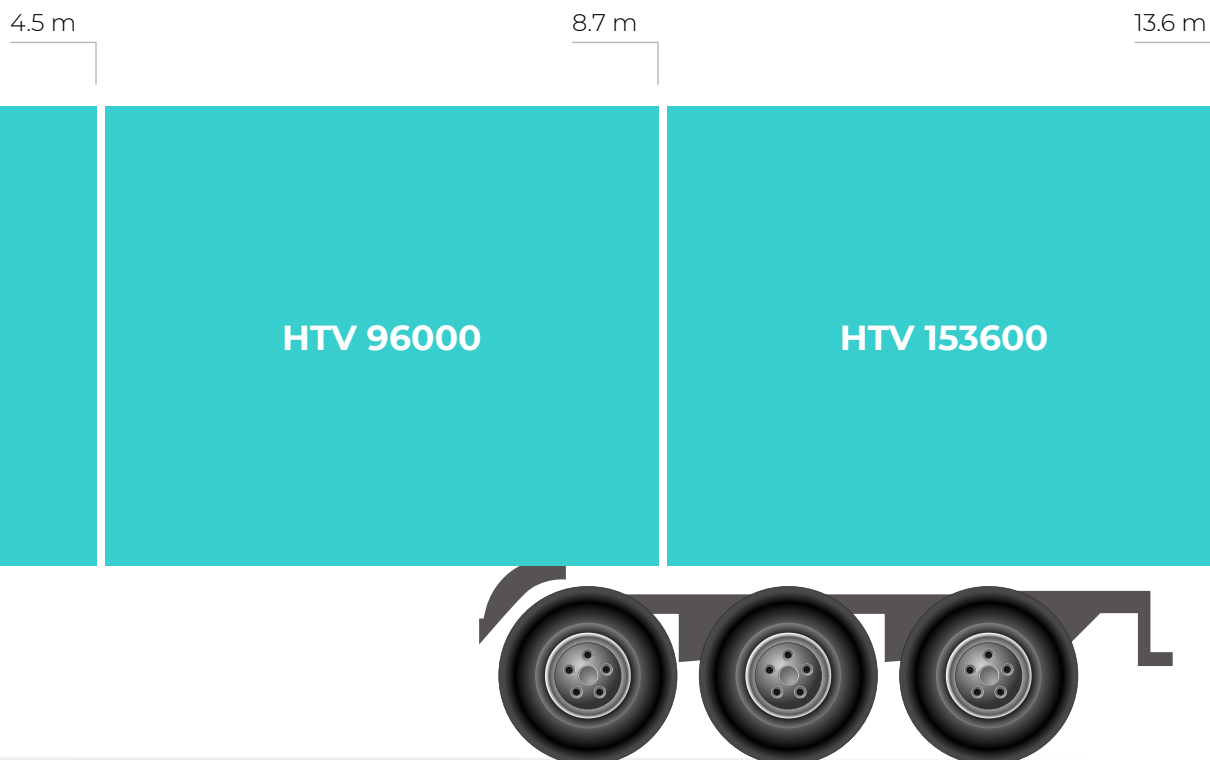
# HatchTraveller Specifications



HatchTraveller is designed to offer excellent compatibility with a wide range of transport baskets and dollies. The system is fitted with a unique laminar airflow system as standard, so that all baskets receive optimal airflow and cooling, irrespective of the basic design.

## HatchTraveller 38400 (Box)

Capacity	With trolley (d.o.c.)	Without trolley (d.o.c.)
HT 88 Basket	38,400	40,800
HT 75 Basket	32,000	40,800
60x40 Basket	38,400	40,800
HatchCare Basket	21,600	-
Dimensions	External (mm)	Internal (mm)
Length	4,500	2,810
Width	2,500	2,380
Height	2,800	2,180
Technical Specifications		
Weight (excl. load)	≈ 4,100 kg	
Generator power supply	2 x 30 kVA / 24 kW	
Chillers	2 x 10 kW	
Air circulation	15,000 m <sup>3</sup> /h	
Fresh air supply	0-2,800 m <sup>3</sup> /h	
MicroClimer sections	2	
Sensors	Temperature: 2	
	CO <sub>2</sub> : 1	
	Humidity: 1	
	Back-up temperature: 1	



HatchTraveller 96000 (Box)		
Capacity	With trolley (d.o.c.)	Without trolley (d.o.c.)
HT 88 Basket	96,000	102,000
HT 75 Basket	80,400	102,000
60x40 Basket	96,000	102,000
HatchCare Basket	54,000	-
Dimensions	External (mm)	Internal (mm)
Length	8,720	7,005
Width	2,500	2,380
Height	2,800	2,180
Technical Specifications		
Weight (excl. load)	≈ 6,000 kg	
Generator power supply	2 x 40 kVA / 32 kW	
Chillers	4 x 10 kW	
Air circulation	15,000 m³/h	
Fresh air supply	0-2,800 m³/h	
MicroClimer sections	5	
Sensors	Temperature: 4	
	CO <sub>2</sub> : 1	
	Humidity: 1	
	Back-up temperature: 1	

HatchTraveller 153600 (Includes trailer)		
Capacity	With trolley (d.o.c.)	Without trolley (d.o.c.)
HT 88 Basket	153,600	163,200
HT 75 Basket	128,000	163,200
60x40 Basket	153,600	163,200
HatchCare Basket	86,400	-
Dimensions	External (mm)	Internal (mm)
Length	13,600	11,195
Width	2,500	2,380
Height	4,000	2,180
Technical Specifications		
Weight (excl. load)	≈ 12,500 kg	
Generator power supply	2 x 60 kVA / 48 kW	
Chillers	6 x 10 kW	
Air circulation	15,000 m³/h	
Fresh air supply	0-2,800 m³/h	
MicroClimer sections	8	
Sensors	Temperature: 6	
	CO <sub>2</sub> : 1	
	Humidity: 1	
	Back-up temperature: 1	

\* D.o.c.'s = load with trolleys





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