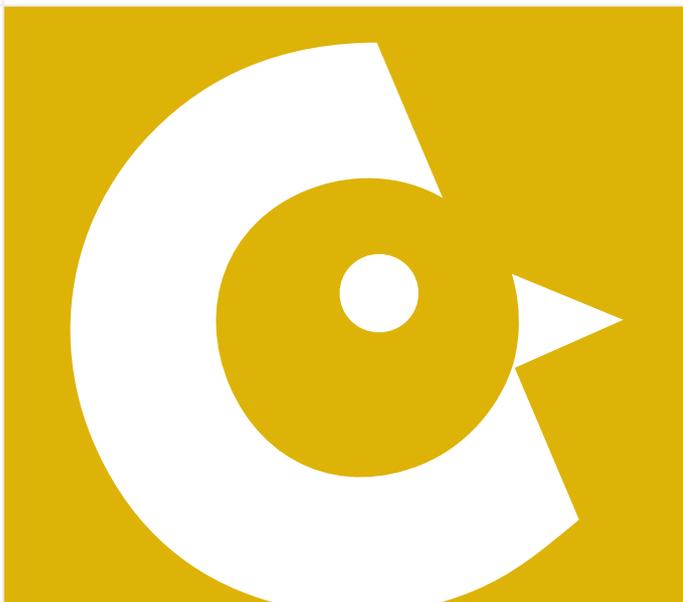


HatchTech Pre-Humidification Unit



- U-Vaporator™ technology for perfect humidity
- Stable and optimal incubation environment in all seasons

HatchTech

Pre-Humidification Unit



In hatcheries, it's essential to have a ventilation system that controls environmental parameters such as temperature, air flow, and relative humidity in order to produce high-quality chicks. Within such systems, Air Handling Units filter and condition the air to the preferred temperature level.

Air humidification is traditionally done by sprayers or pad-cooling systems. These methods, however, have several disadvantages in terms not only of quality (i.e., the level at which the water evaporates into the air), but also of maintenance: pad-cooling systems can freeze in the winter, and sprayer systems, which get blocked by calcium deposits, require frequent attention.

HatchTech developed an alternative system without these drawbacks – a high-quality system that pre-humidifies the air before it enters the setters and hatchers. The HatchTech Pre-Humidification Unit ensures an optimally conditioned air supply for your setters and hatchers – and optimal functioning – year-round.

Pre-humidification technology

The Pre-Humidification Unit is part of the ventilation system, and is positioned just after the Air Handling Unit. The Pre-Humidification Unit, in turn, contains six U-Vaporators™.

How does it work?

- The Pre-Humidification Unit measures the relative humidity of the air.
- If the relative humidity is too low, the controller calculates how much additional humidification is necessary, and activates the appropriate number of the U-Vaporators™ to create it.
- The U-Vaporators™ emit small, rapid vibrations, which create extremely small water droplets.

The result is a 24/7 air supply with an optimum level of humidity for the setters and hatchers in your hatchery.

Smaller droplets for better results

The smaller the moisture droplet, the more efficiently it will evaporate into the air and the more uniformly humidified the environment will be. Sprayers produce droplets so large, > 50 micron, that they can evaporate poorly, and create cold areas in setters and hatchers – which can have a very negative impact on chick-quality and uniformity. The HatchTech Pre-Humidification Unit produces droplets that are remarkably small – just 1 micron in size!



Pre-humidification for a stable and optimum incubation environment

When more of the air conditioning takes place before it enters the setter or hatcher, far fewer adjustments have to be made to the air when it is inside the machine itself – which means that there is little to no fluctuation in the environmental conditions in the setters and hatchers. Such stable and uniform environment is one of the key factors in achieving optimal and uniform chick quality.

Stable environment in all seasons

Day and night, winter and summer, wet and dry weather – all these factors impact humidity levels. Even in areas that are consistently very humid, a substantial difference in air temperature and humidity between day and night can be observed. In all climates, the relative humidity of the air sometimes can get so low that none of today's humidification systems on the market have sufficient capacity to bring humidity up to the necessary level. But with the HatchTech Pre-Humidification Unit, sufficient humidification can be created under all climatic conditions, ensuring that optimal environmental conditions can be maintained throughout the incubation process in order to achieve superior chick quality.

Technical Specifications

Evaporation:	48 liter/hour
Ventilation:	5,000m ³ air/hour
Dimensions (w x d x h):	1900 x 1110 x 1750 mm

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