

Leaflet

# HatchTech Ventilation System

In hatcheries, the ability to control environmental parameters such as temperature, air flow, and relative humidity levels is essential in order to produce high-quality chicks. The HatchTech Ventilation System enables you to do so, and maintain an optimal climate in every part of your hatchery – from the HatchTech MicroClimer Setters and Hatchers to the open working areas. The pressure-controlled system combines the highest bio-security standards with very low energy consumption, so you will enjoy both peace of mind and long-term savings.

## Optimal climate control

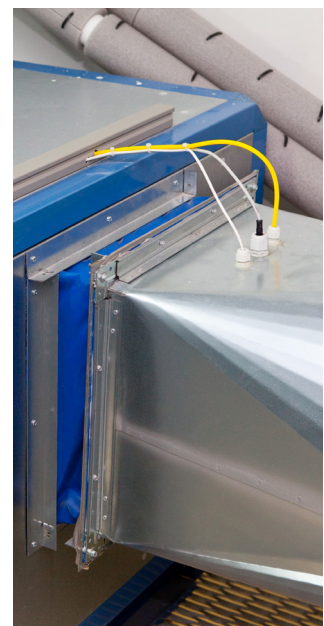
Environmental conditions in the setters and hatchers are constantly changing as the embryos develop, and proper ventilation is required to maintain the correct air temperature and relative humidity level. At the same time, it is important to create an optimal environment in the areas for your employees as well as for the eggs and chicks. To ensure perfect ventilation throughout the entire hatchery installation, the HatchTech Ventilation System is divided into three independent systems, each

of which has its own dedicated Air Handling Unit (AHU):

- Setters and hatchers.
- Chick processing area.
- Remaining Rooms.

The individual AHUs are equipped with their own climate controllers, which control humidity pressure and temperature. They also contain a cooling, heating and an energy recovery system that brings the air temperature to precisely the level required. The AHUs also include a frost protection unit as a standard feature.

- Optimal climate control
- Maximum bio-security
- Energy efficient





# HatchTech

## Ventilation System

The AHUs units are available separately, but we can also deliver them together as a complete hatchery-wide ventilation system. In this case, our in-house engineering design team creates a tailor-made installation plan, with all the necessary ductwork and connections.

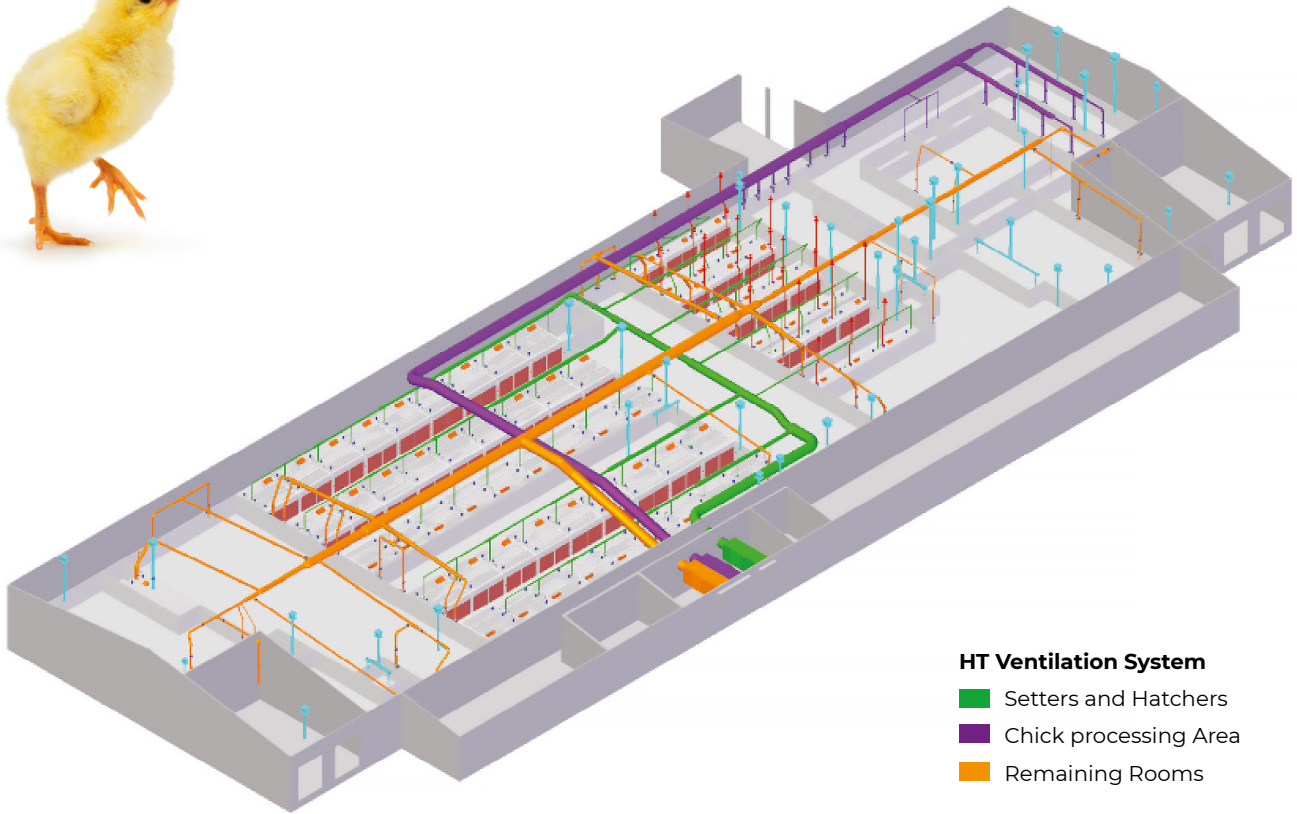
The ventilation systems for the chick processing and other areas include the necessary piping for air distribution. Each of the rooms that they provide conditioned air to, have an inlet valve, pressure controller and exhaust. The HatchTech Ventilation System for the HatchTech MicroClimer Setters and Hatchers can include the Pre-humidification unit, inlet and exhaust connections for each setter and hatcher. Air is conditioned by the AHU according to the set point, and the specific conditions inside each HatchTech MicroClimer Setter and Hatcher are then individually controlled by the MicroClimer, according to the appropriate incubation profile.

### **Maximum bio-security**

The AHUs are all equipped with a filter section that filters the outside air according to the highest bio-security levels. This ensures that only 100% fresh filtered air enters every HatchTech MicroClimer Setter and Hatcher, and single area of the hatchery. In order to prevent cross contamination between incubators and between rooms and incubators, the HatchTech Ventilation System distributes the conditioned air directly to each individual HatchTech MicroClimer Setter and Hatcher. All the rooms in the hatchery are pressure controlled in such a way that air always flows from the most-clean to the lessclean areas, resulting in maximum hygiene and bio-security every step of the way.

### **Major energy savings**

As energy prices continue to rise, it is becoming increasingly important that every part of your installation operates as efficiently as possible.



#### HT Ventilation System

- Setters and Hatchers
- Chick processing Area
- Remaining Rooms

The HatchTech Ventilation System is equipped with several important features that substantially reduce its energy requirements. The *HatchTech Energy Recovery System™*, for example, recycles the high levels of heat generated by the developing embryos in the incubator. It recovers the heat from the water in the setters' and hatchers' cooling system and uses it, as necessary, to warm the fresh, from outside, incoming air. At the same time, this process naturally reduces the temperature of the water in the cooling

system's return lines. The result is that less energy is needed for cooling as well as heating, cutting down your energy use on both sides of the equation.

The AHUs also feature *Eco Energy Drive™* technology, which instantly adapts the fan speed to the real-time ventilation needs of your facility. This ensures that the fan never operates at full speed unless it is actually necessary – eliminating a common source of energy wastage and lowering your operating costs even further.



Finally, the entire HatchTech Ventilation System is connected to the HatchTech Management System. This system manages all the crucial parameters of your installation, from the incubators and supporting equipment to the HatchTech Ventilation System itself. It helps keep you in complete control of your daily operations, and can even run comprehensive analyses to identify the configurations that will be most energy efficient and produce the highest savings in the long term. And that is something that can improve your hatchery's bottom line even more!



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