



Leaflet

## HatchTech Management System



## HatchTech Management System

Besides setters and hatchers, every hatchery has additional equipment for cooling, heating and ventilation. These systems have to work in close harmony with each other to create the perfect environmental conditions necessary to deliver optimal quantity and quality in terms of production. Would it therefore not be the easiest and most logical if you could monitor and control all this equipment from one central point?

- Control and monitor of incubation, brooding and additional equipment
- User friendly interface
- Valuable analysis tool

HatchTech has developed a special system that enables you to do just that: the HatchTech Management System. This system monitors and displays all the crucial performance parameters of the HatchTech equipment in your hatchery and brooding facility, and gives you complete control over every aspect of your daily operations. It also helps you in analyzing and improving the performance of your equipment and – what is more – lets you do all this from any location in the world.

#### Controlling performance parameters

All HatchTech equipment and systems are individually controlled by MicroClimer Controllers. These controllers, in turn, are all connected to the central HatchTech Management System. Information from each MicroClimer Controller is sent to the central system, through which you can monitor and control the performance parameters of each individual machine or system. The HatchTech Management System shows you a tailor-made main screen on which the lay-out of your hatchery is displayed. You can see both the exact location and the operational mode of all your equipment, such as whether a system is on, off, in stand-by or in alarm mode. From this start screen, you can click through to separate control screens for each individual system in your hatchery:

- MicroClimer Setters and Hatchers.
- HatchBrood Units.
- Fumigation Rooms.
- Ventilation System.
- Cooling and Heating System.
- Water Treatment System.

#### User-friendly interface

The HatchTech Management System has a fullcolor interface and a straightforward, easy-tounderstand main menu. In the submenus, you get the same user interface display as on the equipment itself, making the program very userfriendly for your hatchery personnel.

The combination of the MicroClimer Controllers and the HatchTech Management System makes it possible for you to monitor and control your equipment either in stand-alone mode or via a central point. What is more, you can also activate specially developed incubation, brooding profiles, in which multiple set points for complete processes are pre-programmed. With this feature, there is no need to enter individual settings for each parameter and each machine. This not only saves you time, but also ensures secure programming.

#### Valuable analytical tool

The HatchTech Management System generates reports featuring easy-to-understand charts and graphs that show both real-time performance and historical trends for all the parameters of all the equipment it controls. This data is a real asset in analyzing and improving equipment and process performance. In fact, the HatchTech Management System records and stores all the values of the given set points and the actual performance values achieved, enabling data collection over long periods of time. This historical





information can be used to evaluate settings, values and corrective actions, and is especially helpful in optimizing incubation, brooding or ventilation profiles.

#### Energy-saving benefits

The HatchTech Management System uses information from the equipments' local controllers to run comprehensive analyses to identify the most energy-efficient configurations for cooling and heating. For instance, the program constantly calculates which type of cooling source can deliver the cooling capacity required while expending the least energy (e.g., ground water versus dry chillers versus cooling towers or chillers). In this way, the program can make a substantial contribution to lowering energy costs.

#### Easy remote control

Thanks to its internet-based remote-control option, the HatchTech Management System can be accessed via a secure link from any location – either inside the hatchery or from another site. A production manager can, for instance, log on to the system and monitor the performance of the equipment in one hatchery while visiting another. And should technical support be needed, the HatchTech service department can also remotely log on to the system in order to give you quick and effective support whenever necessary.



## **Modules and Parameters**



#### **MicroClimer Setters and Hatchers**

- Production time
- Set points and actual values for temperature, CO<sub>2</sub> and relative humidity
- Cooling or heating rate in each individual section
- Ventilation rate
- Fan speed
- U-Vaporator™ mode
- Turning position of each individual setter trolley
- Machine operating mode; Uniform Embryo Activator™, Egg holding, Ultimate Sanitation Program™, incubation, transfer or alarm.



#### HatchBrood Units

- Production time
- Set points and actual values for temperature, CO<sub>2</sub>, relative humidity and pressure
- Cooling or heating rate in the sections
- Chiller mode
- Ventilation rate
- Fan speed
- Drinking system status
- Light schedule status
- Machine operating mode; Auto Dry, Auto Flush or alarm.



#### HatchTech Cooling & Heating System

- Set points and actual values temperatures and pressure in the equipment and water lines
- Valve positions in water lines
- Pump mode
- Equipment operating mode



#### HatchTech Water Treatment System

- Set points and actual values for pH, conductivity and temperature
- Equipment operating mode

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#### HatchTech Fumigation Room

- Production time
- Set points and actual values for temperature
- Cooling or heating rate
- Ventilation rate
- Fan speed
- Machine operating mode; fumigation, neutralization, ventilation, alarm or completion



#### HatchTech Ventilation System

- Set points and actual values for temperature, CO<sub>2</sub>, relative humidity and pressure
- The cooling or heating rate in each Air Handling Unit
- Fan speed of the ventilator in the AHU
- The valve position in the piping to each area
- Day and night schedules
- Equipment operating mode



#### **Historical Analysis**

Reports and graphs of all historical set points and actual values of all system parameters

# Software capacity • 200 Setters and Hatchers

- 50 HatchBrood Units
- 16 Air Handling Units
- 3 Water Treatment Systems
- 16 Pre-Humidification units
- 4 Fumigation Rooms
- 4 Complete Cooling and Heating Systems



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