

envirosafeTM

HATCHERY SERVICES UNIT

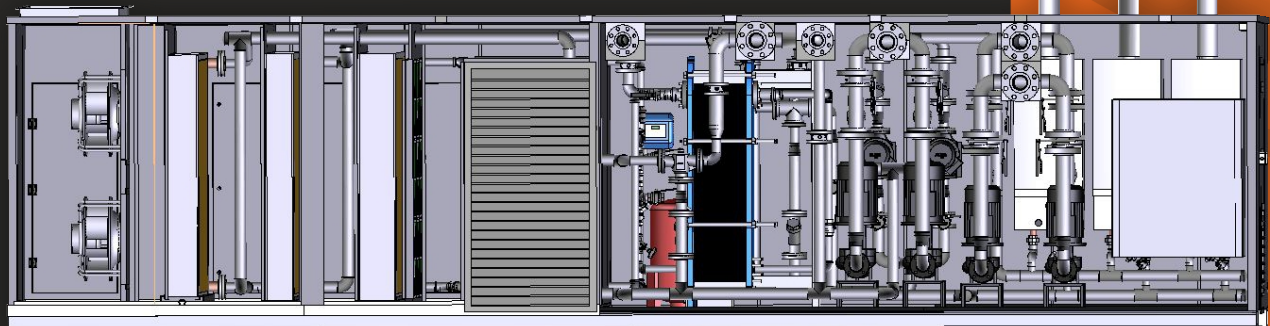


The EnviroSafe™ is a packaged and pre-tested HVAC system that offers all the necessary services for hatcheries with incredible energy efficiency. Supplied pre-assembled, it's ideal for providing extra capacity to new or existing systems without the expense of replacing old equipment. The system is managed by the Eclipse™ Control system and supports our 'zero-point-six' incubator performance.



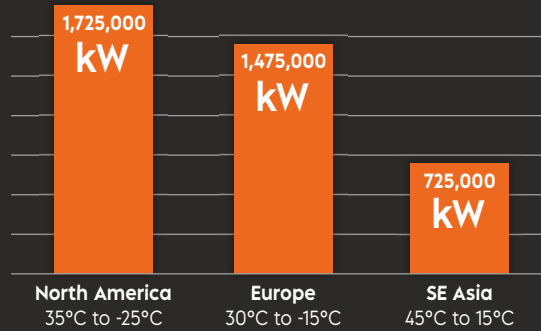
SAFE MEANS SAFE . . . WE'VE GOT YOU COVERED!

The main concern with any packaged HVAC system is the risk of component failure due to "putting all eggs into one basket". The EnviroSafe™ addresses this with **100% TRUE REDUNDANCY**. You are protected all day and every day with dual-capacity pumps for both the machine chilled water circuit and the chillers themselves. Additionally, the supply and return water are capable of supplying sufficient water for the entire circuit at any time, avoiding excessive use of single-head pumps. Last but not least, the fan configurations also have built-in redundancy. A 'SAFE' solution from the time it's switched on. If any component fails, we've got you covered.



TYPICAL ANNUAL ENERGY SAVINGS

(based on one million eggs set per week)

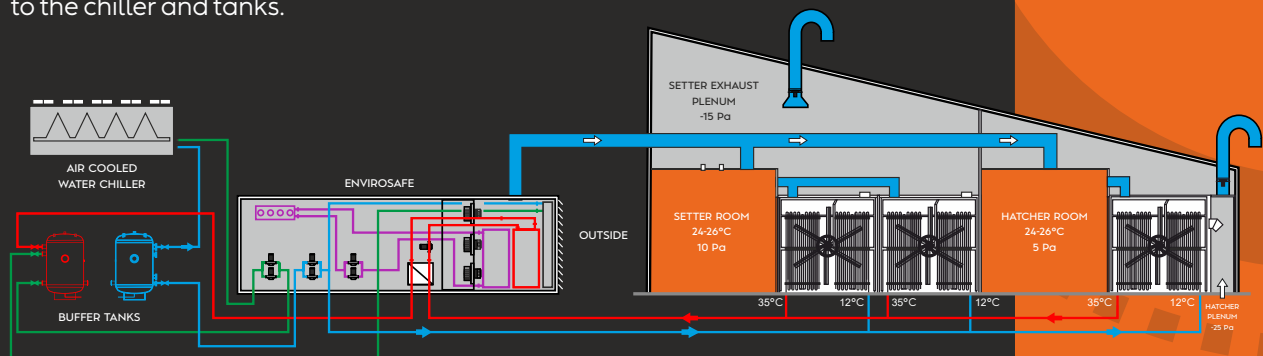


The chart above shows typical energy savings achieved from the HEAT RECOVERY SYSTEM. This is 'free energy' that represents significant savings, even in tropical climates.

HATCHERY DE-HUMIDIFICATION

For effective hatchery de-humidification the air temperature needs to be reduced for moisture to condense. This physical cooling can often incur high energy costs because the air also has to be heated to the required room conditions of 26-27°C. With EnviroSafe's Heat Recovery, the cost of de-humidification and reheating can be reduced by up to **33%**

The diagram below demonstrates the EnviroSafe's cyclical flow of water, through the chiller, pumps and fans, and onto the incubators. The resulting warmed water returns through the heat exchanger and back to the chiller and tanks.



ADDITIONAL SECURITY

The EnviroSafe™ houses a spacious plant room with easy access to pumps, valves, boilers, heat exchangers and glycol top-up. This allows the ability to maintain or repair critical components.

