



Andromeda EC

Complete Environmental Control System

1000 - 12000

Ideal for all domestic indoor swimming pools the new Andromeda EC provides all the revolutionary features of the standard Andromeda in relation to dehumidification, air heating, pool water heating and active heat recovery to both air and pool water, but is manufactured to meet the strenuous demands of the very latest building regulations by utilising blue-EC technology.

BLUE-EC TECHNOLOGY

With the European Union directive on 'Energy Related Products' (ErPD) now in force, the Andromeda EC has been designed with this in mind by incorporating Heatstar's new smart 'blue-EC' technology.

The EU directive encompasses sweeping legislation which impacts upon ventilation and dehumidification product engineering, efficiency and performance rating. Heatstar believe that the new mandatory legislation will have an immediate impact with some of the poorest efficiency products that were being offered to the market by some suppliers now having to be extensively upgraded in order to meet the new minimum legal requirements.

By contrast, Heatstar are proud to showcase their latest range of swimming pool climate control systems, featuring the latest blue-EC technology, which are so energy efficient that they not only meet the new criteria but actually exceed the even more stringent regulations proposed to come into force in 2015.

Key Features of the Andromeda EC



Ultra High Efficiency Digital Air Fan

The special type of fan used in the Andromeda EC, with its Electrically Commutated (EC) motor is very important to the overall energy efficiency.

For a domestic indoor pool, it may be surprising to learn that, generally, it is the permanent operation of the air-fan motor which results in the highest energy consumption.

Therefore, the Andromeda EC employs a very special type of digital fan, to offer the best possible energy efficiency and, so, the lowest operating cost of any such system.

The digital fan uses a directly driven, backward curved impeller, which features a DC motor coupled to an AC inverter.

Powered Exhaust Fresh Air Ducts

To maintain optimum pool room air quality, the Andromeda EC is equipped with a fresh air dilution facility, using a speed regulated exhaust air fan and a fresh air induction connection.

The exhaust air fan also ensures a negative pool room air pressure, to prevent the pool room air from migrating into other adjoining rooms.

Dual Exhaust Air Volume Control

As the quantity of air omitted to atmosphere has an increased relevance to the overall energy efficiency of the application, the exhaust air volume in the new Phoenix EC is now precisely regulated by the combined effect of a motorised air damper and the automated speed control of the exhaust fan.

Adjustable Airflow Duty

The air-flow rate provided by the fan system can be adjusted on-site to precisely match the exact requirement of the pool room.

This type of variable speed fan meets the requirements of building regulations for non-domestic applications and also easily meets the Specific Fan Performance targets.

Flexibility Of Configuration

Each Andromeda EC unit is built using a unique three part design allowing for easy modification to accommodate the ideal plant room layout.

Auto-Fan : Why Run The Fan At Full Power When You Don't Need To?

To further reduce operating costs the Andromeda EC features "auto-fan" technology, whereby the speed and power of the fan reduces automatically to an energy saving "tick-over" whenever there is low demand for dehumidification or air heating.

For a domestic pool equipped with a surface cover there will typically be long durations of low demand and the energy saved by "auto-fan" would be very considerable. Additionally, when the fan is operating on low power, ventilation air noise in the pool room is also reduced.

Illuminated Viewing Window

Another unique feature, is that all production units will include an illuminated Perspex window, enabling the special EC fan, and it's controlled speed of rotation, to be observed at will by the client within the plant room.

Contact Us

Contact Heatstar for detailed specifications and a full analysis of your heating and environmental control requirements.

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