

Aeris 25 series

Small pools and spas

Having the right climate in a spa or small swimming pool area is essential to customer enjoyment



and it needn't cost the earth

Recotherm
INNOVATIVE VENTILATION TECHNOLOGY

Our engineering pedigree designing the best product for the best price

Fresh air intake for dehumidification rather than refrigerant gives fresher feel to the environment

Scrollless fans that give greater efficiency controlled by Real speed controllers

Fully functioning BEMS (Building Energy Management System) means that it is always operating at its peak performance

Double heat recuperator (25 plus model only) reaching 96% efficiency

High efficiency filters to remove particulates

Fully modulating heating valves and the dampers to ensure that the precise amount of energy is used to maintain the pool hall conditions



Aeris 25 series

The Aeris 25 series is a fresh air system that keeps the pool hall atmosphere balanced in terms of temperature and humidity. It is ideal for the smaller pool area up to 25 sq metres surface area or a spa. There are 2 options; the 25 for the most cost effective solution and the 25 + for those wanting the most efficient system with options that include remote sensing maintenance and scented air injection.

Recotherm is an established company that since 1985 has built high quality climate control systems for indoor swimming pools in the UK.

Recotherm developed a unique concept which was an industry milestone when launched in 1991. Our experience with heat pumps had showed us that they did not perform well and were expensive to run, so we set about a redesign that utilised the properties of fresh air. This concept breakthrough set the tone for Recotherm products for the next 25 years.

Our mission is to make **the best product, for the best price, ensuring efficiency and running costs were at the forefront of our thinking.**

After sales

GUARANTEE, MODIFICATIONS, AFTERSALES AND SERVICING

Recotherm units come with a full on-site warranty supported by the factory. Recotherm believe that the after sales support is a vital part of any sale and we pride ourselves on providing the best after sales service possible, using our own specifically trained engineers.

It is estimated by the Carbon Trust that bills can increase by up to 60% if plant is not maintained correctly, so taking out a Recotherm maintenance option is well worthwhile.



Features

Engineered for ease of use, reliability and quality

BETTER AIR QUALITY

A better air quality is achieved because Recotherm use fresh air to control the humidity; this means an enhanced sense of freshness and reduced chemical odours.

Recotherm units introduce the exact amount of fresh air required to maintain the pool hall conditions.

REAL SPEED CONTROL (RSC)

Some units on the marketplace are fitted with so called "intelligent auto fan" which is controlled by a step controller, therefore you get stepped speed increments. It's a bit like the blower in your car heater being in steps, as opposed to a true climate control system, which is seamless.

This is not "real speed control" (RSC), with Recotherm RSC the fan will accelerate from rest to full speed gradually, any speed is achievable, there are no steps.

This means that the maximum efficiency and saving can be achieved because the fan is running at the specific speed required not the nearest step controlled speed.



INTEGRATED MANAGEMENT SYSTEM

Recotherm units are fitted with a fully functioning BEMS (Building Energy Management System) which means that it is always operating at its peak performance, sensors on the return air, control the speed of the fans/the fully modulating heating valves and the dampers to ensure that the precise amount of energy is used to maintain the pool hall conditions.



Recotherm do not use on-off heating valves or light/high usage modes like some units on the market. Recotherm units operate seamlessly as the load varies meaning that they are always working at the optimal efficiency, not jumping between light and high usage modes. This capability is vital if you are to benefit from the energy saving potential of fresh air ventilation.

This is a distinct point of difference between Recotherm and many other products on the market which are built to a price and compromise control capability which limits running cost savings when installed.



TOUCH SCREEN INTERFACE

A touch screen display gives the end user an easy to use interface to control the functions of the unit, visible fault warning and operational mode indications, together with air temperature and humidity display and adjustment.

LOWER COSTS WHEN USING A POOL COVER

Pool cover set back with humidity compensation.

Recotherm systems also incorporate a pool cover setback facility as standard. When the pool cover is on, Recotherm units allow the temperature to drop to a pre-determined level whilst continuing to monitor internal conditions. Other units on the market have this facility for temperature control but only the Recotherm units alter the humidity set point in-line with the reduced temperature to allow the unit to work more efficiently.



During this period, power consumption is reduced, cutting running costs to an absolute minimum – an increased energy conservation measure that is particularly useful for domestic pool owners, where the pool is probably uncovered for only a few hours a week.

REMOTE CONTROL SCREEN OPTION

If required the control panel can be fitted remotely for ease of use away from the actual pool room.

MOBILE PHONE OPTION

In today's high-tech world people also expect to be able to control everything from their mobile phone and Recotherm also offer this on our state of the art control system.



Options on Aeris 25+ version

REMOTE SENSING MAINTENANCE

The Aeris 25 + has the option to install a remote diagnostic chip that allows us to monitor its performance from our control centre to allow fault diagnosis. This gives us the ability to advise on problems as soon as they occur which aids the return to full function with the minimum of delay.

SCENT SOLUTION

Want that spa experience each time you enter your pool? Recotherm are pleased to offer cold air diffusion technology to discretely scent the pool atmosphere as an optional extra on the Aeris 25 range of units. This is a fully automatic scent diffusion solution that uses cold air diffusion to ensure that the quality of each fragrance is maintained throughout the entire diffusion process. Rather than using heat or evaporation to diffuse the scent.

Make your pool smell heavenly

alpine air, apple fresh, bergamot, citrus, cherry blossom, cinnamon, flower fields, fresh crisp linen, guava cucumber, jasmine, lavender, lemongrass, mint, ocean breeze, orchid, peppermint, rainforest, redwood, rose, sea scent, springtime, summer bliss, twinkle star, vanilla.

Recotherm
Scent
solution

Hundreds of different scents are available and each can be set up to operate continually or for just a few hours a day by utilising the built-in scent time clock.

Technical

MODEL: Aeris 25 series		25	25 +
Nominal air volume	m ³ /s	0.25	0.25
Maximum 1)	kg/h	13.8	13.8
Dehumidification 2)	kg/h	5.4	5.4
effect kg/hr 3)	kg/h	12.1	12.1
Supply fan motor	kW	0.5	0.5
Sound power level	dBA	61	63
External resistance	Pa	100	100
Maximum external resistance	Pa	300	300
Return fan motor	kW	0.5	0.5
Sound power level	dBA	58	61
External resistance	Pa	100	100
Maximum external resistance	Pa	300	300
Recuperator nominal Eff	%	70	85
LT.LPHW Coil duty	kW	7.09	6.7
LT.LPHW flow rate (Δt 20°C)	l/s	0.09	0.07
LT.LPHW pressure drop	kPa	12	12
Max fabric loss capacity	kW	4.06	4.06
Power consumption (full speed)	kW	0.25	0.34
Power consumption (half speed)	kW	0.03	0.04
Specific fan power	w/l/s	1.0	1.3
Full load current (single phase)	Amps	1.15	1.5
Full load current (three phase)	Amps	N/A	N/A
Length	mm	1100	1400
Width	mm	548	548
Height	mm	900	900
Weight	kg	110	120
Duct connection sizes (H x L)			
Fresh air inlet	mm	300 x 500	300 x 500
Supply air outlet	mm	200x 300	200x 300
Return air inlet	mm	300 x 300	300 x 300
Exhaust air outlet	mm	150 x 300	200 x 300

- 1) Winter fresh air at 0°C 100% RH Pool hall condition 30°C 60% RH
 2) Summer fresh air at 28°C 47% RH Pool hall condition 30°C 60% RH
 3) Average fresh air at 8°C 80% RH Pool hall condition 30°C 60% RH

Recotherm
 INNOVATIVE VENTILATION TECHNOLOGY

Unit A Astwood Business Park, Astwood Lane, Astwood Bank, Redditch, Worcestershire B96 6HH
 Tel +44 (0) 1527 894533 Fax +44 (0) 1527 893212

www.recotherm.co.uk email: sales@recotherm.co.uk