

Reliable Luxury for Cruise Liners

When a luxury steam room is travelling around the world on a cruise liner, you can't afford any opportunity for repairs or failure. HygroMatik's reputation for reliability secured its specification for the steam rooms aboard the Pacific Pearl, a luxury P&O Cruise liner based out of Australia.

Specialist UK design and manufacturer Rigo Spa specified HygroMatik's C10 and C17 Comfort Plus DS Comfort Line Steam Bath Generator equipment for two opulent inbuilt steam rooms, including a steam room in the main spa suite and a VIP couples glass-fronted suite adjoined to a luxury treatment room.



The VIP couples suite steam room is fitted with the C10 Comfort Plus DS Comfort Line Steam Bath Generator. The steam room connected to the main spa suite uses the C17 Comfort Plus DS Comfort Line Steam Bath Generator. The Generators are mounted in the plant's



A similar example to the steam room aboard the Pacific Pearl

technical room and deliver a low level essence into the steam room.

Richard Gowland, Director of Rigo Spa states: "I have always used HygroMatik equipment. It produces the most natural steam with great energy efficiency. It is very reliable and, if anything does go wrong, troubleshooting is easy as every part can be replaced easily."

Launched in Auckland in December, P&O Cruises' Pacific Pearl is the latest addition to P&O Cruises' fleet, which now boasts a record four ships. The 63,500-tonne liner carries 1800 passengers and features a

dazzling array of swimming pools and spas, a fitness centre, a gym and dining venues. The Pacific Pearl hosts a sensational line up of entertainment – from world-class productions to the adults-only Sit Down Comedy Club a giant pool-side entertainment screen, P&O Cruises' largest ever teen centre and a swim-up bar.

The Pacific Pearl first set sail on December 2010 and is currently travelling around Australia and the South Pacific.

Event News

HygroMatik exhibited at Ecobuild for the first time in 2011 – keen to promote the contribution its equipment can make to energy efficient high-quality working environments. Reducing energy is at the forefront of the agenda for the company, so this is clearly an exhibition of great relevance.

Over the three days of the exhibition a diverse range of visitors came to the HygroMatik stand – specifiers, contractors and, of course, journalists to find out more. Andie Chessun, HygroMatik's UK Business Development Manager was "delighted by the number of new contacts we made during the show" and we are already planning our 2012 stand – see you there!



HygroMatik Steam Injection System Humidifies the UK

HygroMatik is introducing the DDS to the UK: a significant development in steam injection humidification.

Suitable for use in air supply ducts, the DDS provides dry steam on demand into the system. The equipment is lightweight, easy to install and operates with great sensitivity, combining very rapid reaction for high humidification requirements with especially fine control in lower ranges.

The DDS is a highly engineered, closed system that humidifies with condensate-free saturated steam. The high performance separator, strainer, condensate unit and start-up safety feature are available in different materials such as stainless



steel and SG iron, combining to give a unit that is compact, light and extremely energy efficient. The DDS can be configured individually and is particularly recommended for installation where space is limited or where absorption distances are short.

The DDS provides the driest steam possible via an internal, close pre-heated lance system which is supplied directly from the separator or, alternatively, from a separate steam supply. This not only saves space but allows for rapid regulation during the start-up and minimises condensate as there is no air-flow heating.

The defining characteristic of HygroMatik equipment is its innovative, high engineering quality, leading to a long life of maintenance-free operation. Technical support staff and qualified field service engineers provide comprehensive support and back-up with products available throughout the UK.

Focus on Humidification

HygroMatik used Ecobuild 2011 to launch the latest addition to its range of humidifiers to the UK market.

The HygroMatik Low Pressure System (LPS) is designed to significantly improve the performance of air conditioning units, giving increased (free) cooling and humidification with reduced energy consumption.

The HygroMatik LPS is easily retrofitted into existing air handling units (AHU's) where it works as an atomising humidifier, cooling air through evaporation (the adiabatic effect) and boosting the installed cooling capacity of the system.

The unit atomises water into fine droplets that evaporate spontaneously eliminating the need to use biocides or chemical additives. De-ionised water is used to prevent scaling so there is minimal ongoing maintenance. HygroMatik is confident that the unit's efficient operation will give a rapid pay-back while the high quality components for which the company is

well-known will ensure a long life.

The space-saving and low-noise HygroMatik LPS system was developed specifically as an innovative alternative for wetted media humidifiers. The Ecobuild stand also displayed information on the wide range of humidification equipment provided by HygroMatik.



Choosing the right humidity

By Andie Chessun, Business Development Manager, HygroMatik

The necessity for humidification equipment to meet the requirements for carefully controlled humidity and optimum air quality has long been recognised within specialist environments such as museums and hospitals. There is now an increased awareness within less specialist environments, such as the workplace to install humidification equipment for increased optimum air quality and an improved ecological footprint.

An individual can become more susceptible to illness if the ambient relative humidity is below 40% rH. Dry air is one of the main causes for respiratory infections as dehydrated skin and mucous membranes will become unable to effectively fight intrusive viruses and harmful bacteria. The solution for combating poor air quality is relatively simple and has the potential to benefit a working environment in terms of efficiency, cost and eco-awareness.

Humidification equipment can easily be added to an already existing air conditioning unit and the recommended equipment for a retrofit would be an adiabatic high pressure or low pressure system.

Adiabatic humidification is ideal – the water is finely atomised and introduced into the air without the need for thermal energy from an external source. Heat is



Low Pressure System LPS

High Pressure System HDS

produced from the air to transform the water into a fine vapour. The adiabatic humidification process will also cool the air and this subsequently increases the overall efficiency of an air conditioning unit. For example, an optimum quality adiabatic system has the potential to save up to 30% cooling capacity within the summer months.

The high pressure system produces a very fine water mist without any stand-

ing water or the need for chemicals. The low pressure system operates with a water lubricated pump that can last up to five years, making it oil free, clean and safe. Both

systems humidify with demineralised water and this avoids calcium deposits and consequently reduces the need for maintenance.

Introducing an adiabatic low pressure or high pressure system is a simple and cost effective way to update an existing air conditioning unit to create a healthier and ecological working environment.



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