



Welcome to FJ e-news.

Connect or die goes the saying in our brave new world. Out of our eagerness to strengthen our rapport with our market, FJ is launching e-news. Our electronic letter intends to bring to our reader's latest news from our principals and manufacturing partners. It will highlight good practices, new concepts, new trends and most important establish a platform of communication between our customer, our principles and our teams.

We will endeavor to release e-news monthly. Every issue will cover 3 to 4 topics of building services equipment within a particular segment. Our first issue will be focused on the hospital installation and will address hygienic Air Handling Units, chilled water balancing, insulation practices and boiler efficiency improvement. We trust that our e-news will bring added value to our relationship, answering some of your questions and hopefully presenting new avenue of opportunities for all parties concerned.

Sincerely Yours,

RAPHAEL KHLAT
Managing Director



Faisal Jassim Trading Co. L.L.C
We bring life to your building



THE COST OF DISCOMFORT IN THE HEALING ENVIRONMENT

A welcoming and comfortable atmosphere in healthcare institutions is key to a healing environment. Interior climate is a big part of this but the technology behind it is often unbeknownst to staff. **Bassam Al-Awar, General Manager of Tour & Andersson**, discusses how hydronic balancing in waterborne heating and cooling systems can help regulate indoor climate in a hospital, at the same time as saving energy and CO2 for Facility Managers, building managers and owners.



Hydronic Balancing is the term used to describe the process of troubleshooting applied to a waterborne heating and cooling system that is properly regulated by valves to meet the specific needs of a building's occupants. In the system, internal pipework carries a constant supply of temperature-specific water around the system, heating each room connected to the HVAC network.

Ensuring that a system operates to its design optimum is key in any application. For hospitals slight changes in temperature can have dramatic implications, particularly for surgery or operating areas where highly technical machinery is operated and fluctuations of less than one degree need to be monitored.

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Euroclima Hygienic AHU's



Across the GCC a number of new hospital projects are coming up requiring the highest level of engineering to comply with international health standard. Air handling unit used for those installation, need to comply with hygienic standard to protect the installation from numerous hazardous facts in particular:

- Bacteria and mould are biological contaminants, which Can breed in air conditioners and form a biofilm



- Under certain conditions, the airborne propagation of micro organisms (or their products) is possible through the air conditioning system
- Suspended in indoor air, respiratory infections, lung diseases etc. are a significant risk mainly for people with weak immune system, especially children and old people
- possible health problems are: allergic illness, irritant effects, toxic effects
- Building a proper hygienic air handling is not an arbitrary endeavor. The units are well regulated thru the following standards: EN 13779, EN 15251, VDI 3803, VDI 6022, DIN 1946 part 4 .

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Insulation Engineered for Schools



Today, global focus is on Environment as on Environment. The focus in this millennium is on Health Hazards and Indoor Air Quality. In order to minimize the impact of insulation on health an insulation material should be dust and fibre free, VOC free and Formaldehyde free. Preventing the growth of mould and bacteria is also an integral part of any quality insulation material. Aside from health concerns, the presence of mould and bacteria increases the maintenance requirements of a system. Armaflex, with its built in water vapour barrier and Microban anti-microbial protection, is easily applied and helps to create a safe & hospital environment. Many installation in the developed world use only Armaflex - rejecting all dusty and fibrous alternatives as potentially hazardous to the health of children. In Schools, and Hospitals Indoor Air Quality is a must wherein application of Armaflex can be used for building a clean and safe environment.

Armacel Microban brand is your assurance of continuous, durable and effective antimicrobial protection

The Productive Class O Armaflex Plus is made with Microban, Antimicrobial Product Protection with extremely Low Thermal Conductivity for Higher Energy Saving

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How to bring life to your ailing boilers

DAN WILLEMS, Cleaver-Brooks

What can you do when you are expected to generate steam efficiently, but you have to do it with aging, inefficient equipment? Think retrofits.

According to recent statistics, almost 80% of boilers installed today are nearly 30 years old or older. This means the chances are pretty good that you're working with a unit that is not operating at optimal efficiency - possibly only in the 75% to 80% range.

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