

Product Spotlight



RITTAL IP54 AIR-AIR HEAT EXCHANGERS

RITTAL Air-Air Heat Exchangers can lead to attractive cost savings over refrigerant based air conditioners due to their simple design, low energy consumption and minimum maintenance. Air-air heat exchangers utilise the ambient air to cool the air within the enclosure interior using

only two working parts. Extracting heat from within the enclosure and releasing it into the surrounding environment the exchangers operation is based on the counterflow principle. Completely separate airflows are routed through the heat exchanger module by powerful fans which control the internal and external airflows. (Thermal winding protection on the fan motors is provided as an added safety feature). The exchanger matrix, which is made of aluminium, makes the unit light and offers maximum durability.

Tel: 01709 704000 www.rittal.co.uk

CENTRIFUGAL SEPARATION COSTS REDUCED

Power Plates are the latest development from **ALFA LAVAL** aimed at cutting decanter centrifuge running costs by up to 25% by reducing their power consumption. During centrifugation, a significant portion of the energy used is transmitted to the fluids being processed in the form of rotational velocity. Power Plates work by reclaiming some of this energy before the liquid leaves the bowl and transferring it back in the opposite direction of bowl rotation. As a result, the total effluent discharge velocity is reduced. As the energy content of the discharged liquid is proportionate to the square of the velocity, even a small reduction in velocity can achieve significant saving in energy.

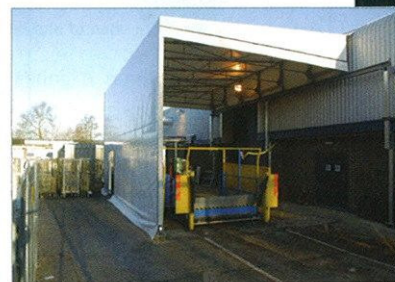
Tel: 01276 63383 www.alfalaval.com



LOADING BAY CANOPY

Sainsbury's supermarket has tried something new itself: a **COPRISYSTEMS** loading bay canopy. Based at its Andover site, this medium sized store has between three and four deliveries a day. The canopy has been installed to provide environmental protection for goods and operatives during the unloading process. Side wall mounted against the existing building, the canopy protects a scissor lift method of unloading as well as limiting wind, rain and dust issues during the unloading process. The side wall mounted canopy is ideal for a 'drive through' unloading process as each end of the tunnel effect canopy can be left open. If the ends are shut, an effective airtight can be created when the warehouse doors are opened.

Tel: 01794 301000 www.coprisystems.com



MECMESIN PACKAGING TESTER

A bespoke **MECMESIN** force testing system used to perform integrity checks on basket carriers and cardboard box packaging has reduced a company's recall costs by 40%. Graphic Packaging International, a leading designer and manufacturer of food and beverage packaging, is using the system to improve

production line efficiency and maintain consistent standards of packaging quality. The company required a special tensile test to be performed on flat packaging. Mecmesin provided a bespoke solution and worked in conjunction with the company to create a vacuum fixture. Utilising this system, the company has been able to make significant quality improvements, and dramatically reduced recall costs incurred through packaging faults that were previously undetected.

Tel: +44 (0)1403 799979
www.mecmesin.com



UPGRADED LIGHTING

CHALMOR's LifeSaver 'pay as you save' scheme has enabled leading self-adhesive materials manufacturer Ritrama to upgrade lighting and controls at its production centre in Eccles with no capital outlay. Part of the financial savings achieved on energy costs repay the capital Chalmor invested over a 3 year period. The work was carried out in an

existing facility, where 650 SON fittings were replaced with 420 Chalmor Brilliance high output, long life fittings, reducing the installed electrical load by 136kW. Enhanced control with Chalmor Autolux controllers is expected to reduce the lighting's running hours by around 40%, resulting in an annual energy saving of 1,444,956kWh. The longer life lamps also reduce maintenance costs, giving a total annual saving of around £90,000.

Tel: 01582 748700 www.chalmor.co.uk



BALL AND NEEDLE VALVE PRODUCTS

The Bifold Group has re-developed its range of ball and needle valve products and re-launched the range for low/medium pressure applications with operating range from 1,000 psi/70 bar up to 15,000 psi/1035 bar. The valves offer exceptional integrity to meet medium pressure and other demanding

instrumentation applications that are increasingly being faced in the upstream and downstream oil and gas sector. **BIFOLD FLUIDPOWER** Limited are leaders in the design and manufacture of hydraulic and pneumatic stainless steel directional control valves and accessories for hazardous corrosive and subsea environments.

Tel: +44 (0) 161 345 4777
www.bifold-fluidpower.co.uk



BENCH-TOP POWER TOOL TEST FIXTURE

NORBAR TORQUE TOOLS LTD has introduced a bench-top Power Tool Test Fixture for testing a range of pneumatic torque wrenches such as Norbar's Pneutorque® range, allowing users to bring torque testing in-house and significantly reduce costs. Used in conjunction with the TruCheck™ Plus 1000, the new fixture simulates the conditions of a bolted joint. Its use can reduce spend on testing, making it one of the most cost-effective ways of testing a wide variety of pneumatic torque wrenches with outputs up to 1000 N.m (750 lbf.ft). The Power Tool Test Fixture consists of a Joint Simulation

'Rounddown' Assembly, 3/4" and 1" sockets and the required base plate and fittings.

Tel: 01295 753600

www.norbar.com



MICROSPRAY™ VALVE

Based on **EFD**'s proven Low Volume Low Pressure (LVLP) precision spray technology, the new 787MS-SS MicroSpray™ Valve provides fast, controlled application of a wide range of low to medium-viscosity fluids, including solvents, lubricants and UV-cure coatings. The new 787MS-SS valve features an innovative design that uses a small gauge disposable dispensing tip in place of a standard spray nozzle. This concentrates the LVLP air used to atomize the coating into uniform spray patterns as small as 1.6 mm in diameter - over 60% smaller than standard spray valve configuration. Benefits include greater process control, faster throughput, fewer rejects and lower production costs.

Tel: +44 (0)1582 666664
www.efd-inc.com



ENERGY EFFICIENCY DRIVE

SYSTEM HYGIENICS, the UK's leading air hygiene specialist, is helping Heathrow Airport Terminal 3 to become more energy efficient by replacing the Terminal's volume control dampers (VCDs), following an agreement with the BAA and the Carbon Trust to reduce the airport's carbon emissions. Control checks on the Terminals existing VCDs identified two common problem areas - jamming and wasteful fresh air dampers. With the majority of the airport's VCDs over 30 years old, excessive usage had caused the ducted air systems to jam. Instead of utilising outside air to regulate the dampers, the old VCDs were running their chillers 24/7 with no free cooling. One section of the ducted air system was replaced with two small dampers making it more efficient and easier to maintain.

Tel: 01323 481170
www.systemhygienics.co.uk

