



Conair introduces single-stage dryer

The Conair EnergySmart single-stage (ES-1) is a complete dehumidifying dryer system that is specially suitable for materials that require high temperatures, and medium to high throughput applications. The ES-1 dryer can handle resin throughputs between 182 kg/hour and 2,273 kg/hour. This model is an improvement of the Conair's original two-stage EnergySmart system and the result is a less-costly single-stage dryer configuration.

In the ES-1, Conair attempts to reduce energy use and provide a higher degree of control over the drying process. In the Optimizer Mode, the new TouchView dryer

control uses information gathered by a Conair Drying Monitor and regulates air temperature, dew point and air flow. Just enough heat energy is added to the bed of material in the drying hopper to maintain an optimum temperature profile since too much air flow will result in wasted energy; too little air flow will result in poor drying performance. Once the proper conditions are established, they can be locked in with the touch of a finger. The controls have the ability to fine-tune the air flow, temperature and dew point to maintain a stable temperature within the hopper regardless of throughput changes or variations in material temperature or ambient conditions. Settings can also be saved for recall.

Built around a Conair Carousel Plus desiccant dryer, which delivers air dried to a dew point of -40°C , the ES-1 is especially well-suited to applications involving resins like PET that require precision drying at temperatures

as high as 177°C . In this application, it can deliver an average energy savings of between 35% and 45% compared to conventional dryers. Return on investment, based on energy savings alone, can be recovered in 6 to 9 months.

The ES-1 can also be used with materials like PC, which dries at 121°C , or even ABS, which dries at 82°C .

In addition, the Drying Monitor and the TouchView dryer control act as an early warning system. If a filter becomes clogged, for instance, and air flow to the drying hopper is reduced to the point that it cannot heat the entire volume of material, the change in the temperature profile will be detected and an alarm will sound. Without this technology, the problem may not be discovered until hours later when defective product is produced.

Conair and the ES-1 will be at Chinaplas at Hall E3, Booth F41.

Maguire lifts ease of cleaning and changing blender bins

MaguireR Weigh Scale Blenders' removable hopper bins have made cleaning and changing more simple and easy. With Maguire's new Pneumatic Loader Lift, the blender's functionality is improved by raising a platform on which the loaders are mounted, thus allowing access to material bins without having to remove each loader.

The Pneumatic Loader Lift works at the

touch of a switch, lifting the bin lid and the loaders above yet leaving ample room for the operator to remove the bins.

The new loader also comes with two safety features. Firstly, the lid cannot be lowered unless the operator presses two buttons simultaneously; also, a large rubber flange protruding from the rim of each bin leaves more than enough room for fingers even if the lid were fully lowered.

Pennsylvania, US-based Maguire is one of the world's largest suppliers of gravimetric blenders and liquid colour pumps. It also manufactures loading systems, dryers, auger feeders, and related equipment and software.



Kubota shows off at Chinaplas



Japan's Kubota Corporation will be exhibiting several pieces of equipment at Chinaplas.

One of them is the single screw cassette weighing feeder CE-M-1D-MP (see picture). Depending on the screw design used, materials like resin powder and pellets, calcium carbonate, titanium oxide and carbon black can be handled by the feeder.

The discharge hopper made of flexible PU and roller unit attached flexes the discharge hopper to prevent bridging of material.

Kubota will also be exhibiting the twin screw cassette weighing feeder CE-W-1D-MP.

Depending on the screw design used, the feeder can handle materials ranging from difficult flowing like pigments to free flowing pellets.

Both gravimetric feeders have an extension hopper mounted on a platform scale with a high resolution digital load cell and loss-in-weight controller mounted directly to the feeder. The parts of both gravimetric feeders can be disassembled easily without tools for cleaning and the controller comes pre-wired to shorten commissioning time, thus saving effort and time.

Kubota will be at Hall E4, Booth M06.