Vacuum Handling Solutions for Medical Applications

Virtual Industries Inc., a leading supplier of manual vacuum handling solutions, announces that it will display several advanced systems in Booth #1358 at the upcoming Medical Design & Manufacturing (MD&M) Exposition, scheduled to take place November 2-3, 2011 at the Minneapolis Convention Center in Minnesota.
The VIR-STAT™ Benchtop Air Ionizer (VS-150) eliminates static charges in ESD-sensitive assembly areas. In addition to protecting ESD-sensitive components, air ionization reduces "stiction" when handling extremely small insulative components. Stiction occurs when two surfaces with areas below the micrometer range come into close contact, such as a small part probe and the part being handled. The part sticks to the probe and will not release. Ionizing the air neutralizes the static charge and associated stiction.

The Mini Vacuum Pumps for OEM applications (VMP1621CN and VMP1625MX) can be used for applications requiring air flow, vacuum or air pressure. Typical applications include air quality sampling, organic vapor analyzers, equipment requiring a vacuum source, or equipment requiring a pressure source.

The mini vacuum pumps are small, but provide high performance with a motor life of up to 5,000 hours. The pump valves are made of durable stainless steel and the diaphragm is fabric reinforced viton. The pumps come with a 43 micron inlet filter and mounting clip.

The Small Part Handling Kit (TV1000-SP8-BD-MAG1), the company’s show special, is for parts as small as 01005. This general-purpose vacuum handling tool plugs directly into 110 V 50/60 Hz. The compact unit will handle a variety of optics, ball

lenses and SMT parts used in the industry today. The kit includes a set of rubber tipped vacuum tips as well as a set of eight small parts tips. As a special at the show, all Small Part Handling Kit purchases will come with a free 2.5X lighted magnifier that runs on three AAA batteries (included).

With the Small Part Handling Kit, parts as small as 0.05" (0.10 mm) are handled without damage. A vacuum tweezer eliminates lost parts associated with mechanical tweezer handling. The long-life diaphragm vacuum pump generates up to 10" of mercury with an open air flow of 2.3 lpm. The unit connects to ground automatically with a three-wire power cord.

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