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05.01.2016 | 14:31

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## Diversified Technologies' PEF Drying and Extraction System Produces Higher Yields With Less Energy

BEDFORD, MA -- (Marketwired) -- 01/05/16 -- Diversified Technologies, Inc. (DTI) has introduced a PEF (Pulsed Electric Field) processing system that reduces the high energy costs of dehydration and the extraction of valuable material from plant material by enabling the removal of intracellular fluids.

The DTI PowerMod™ PEF System for Dehydration and Extraction applies 1 to 40 kV/cm high voltage pulses for 2 to 20 microseconds which breaks cell membranes and releases intracellular materials. The system requires less energy for drying than thermal-based systems because the 20% of total water content contained within cells is liberated by electroporation. For extraction processes, the access to intracellular materials produces higher yields.

Consisting of a high voltage pulse modulator, power supply, and a treatment chamber, DTI PowerMod™ PEF Systems range from 50 to 600 kW. For drying, it is 30% faster than conventional systems and for juice extraction the system provides a 30% greater yield. Typical applications include fruits, vegetables, and the extraction of biofuels from algae.

DTI's PowerMod™ PEF System for Dehydration and Extraction is priced from \$200,000.00 to \$750,000.00, depending upon configuration.

About Diversified Technologies, Inc.

Diversified Technologies, Inc. is the developer and marketer of the PowerMod™ line of high voltage, high power pulse modulators, DC power supplies, and control systems. The firm's products are used worldwide in high power applications such as radar, high energy physics, defense, and food processing.

Selected twice by R&D Magazine as one of the 100 most significant products of the year, DTI's PowerMod™ systems are available in a wide range of voltage, current, and performance configurations.

Image Available: [http://www2.marketwire.com/mw/frame\\_mw?attachid=2944878](http://www2.marketwire.com/mw/frame_mw?attachid=2944878)

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