Pressure BioSciences Inc.

PCT NEWS

OTCQB: PBIO

Discovery Starts With Sample Preparation™

Volume 8, Issue 2 February 2014

PBI to Showcase Its New Barocycler HUB880 at USHUPO 2014

Constant Systems New Multi Shot Cell Disruptor Showcased at Pittcon 2014

The Barocycler® HUB880

The Barocycler HUB880 is a compact, bench-top, ultra-high pressure generator that uses an air pressure-to-liquid pressure intensifier, allowing the user to generate hydrostatic pressure as high as 80,000 psi (~5.5 kilobar) to 100,000 psi (~7.0 kilobar) with input air pressure of just 126 psi. The HUB880 can be operated through an external Data Acquisition and Control Module for dynamic pressure control. Manual control is also available.

PBI supports the HUB880 with a family of products including pressure vessels, high pressure plumbing, valves, and control software. Whether you are an experienced user of high pressure equipment or just entering high pressure research for the first time, PBI's experienced Engineering, Sales and Support staff will be available each step of the way to ensure you are getting the setup you require for your experimental needs.

Fields-of-Use (selected examples)	Features and Benefits (selected examples)
Food Science	Ideal for High Pressure Research
Microbiology	A USB-Powered Computer Interface
Agriculture	Expandable with Optional Hardware and Software
Structural Biology	Compact and Light
Material and Chemical Sciences	Can Interface with Other Instrumentation
Industrial	Safe and easy-to-use

Continued on Page 2, Column 1

Showcased at Pittcon 2014

Constant System Launches Its New Multi Shot Cell Disruptor in North and South America: Available from PBI

Multi Shot Model

CONSTANT SYSTEMS LTD

High Pressure Cell Disruption
"A simple solution for cell disruption.
Suitable for applications such as nucleic acid extraction, protein extraction & tissue disruption."

Launching January 2014

Continued on Page 2, Column 1

EVENTS

Scientific Meeting: PBI to showcase the Company's new state-of-the-art ultra-high pressure generator (Barocycler HUB880) at **The US HUPO 10th Annual Conference,** April 6 - 9, 2014 at the Westin Hotel, Seattle, WA.

Scientific Meeting: PBI to showcase the Company's PCT-based systems and new products for sample preparation as well as Constant Systems' cell disruption equipment at **62nd ASMS Conference on Mass Spectrometry and Allied Topics,** June 15 - 19, 2014 at the Baltimore Convention Center, Baltimore, MD.

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The Barocycler® HUB880: Continued from Page 1, Column 1

Barocycler HUB880 Specifications:

- Maximum Operating Pressure ~80,000 to 100,000 psi (~5.5 - 7.0 kilobar)
- Minimum Operating Pressure ~1000 psi (70 Bar)
- 24 VDC Power
- Industry Standard HP 9/16-18 Threaded Female Port
- Dimensions: 24" Long X 9" Deep X 13" High
- Weight ~75 lbs (34 kg)
- Manual Control (External Control Options Available, See HUB-DAC Specification Sheet)
- 1 Year Warranty (One Year and Four Year Extended Warranties are Available)

Click Here for a Video of the HUB Family of Products

Constant System Launches Its New Multi Shot Cell Disruptor in North and South America: Available from PBI:

Features

- 5 cycles = 1 process (1-40mls per process)
- Recommend for up to 80mls
- Adjustable pressure – 1-40Kpsi
- Precise hydraulic control ensures that the pressure is consistent and stable during process

Benefits

- Quick & easy to use
- Reliable & continuous results – fixed orifice
- No need for compressed air or gas
- Minimal dead loss (<1mls)
- Heat sensitive samples are protected by cooling the collection cups prior to use
- Digital display
- Pipette or pour sample from collection cup
- Disruption head mounted on stainless steel to catch any spills

Continued on Page 2, Column 2

Constant System Launches Its New Multi Shot Cell Disruptor in North and South America: Available from PBI: Continued from Page 2, Column 1

What samples can I use?

Can process the following organic sample states:

- Liquid
- Pellet
- Paste
- Solid
- Frozen

We have never encountered an organic sample we cannot process.

Cleaning

- Clean the system in the same way you would process a sample
- Disruption head can be easily dismantled for an intense clean and autoclaving

Extras

- Cart – machine is then safely supported at an ideal working height, makes the machine easily movable
- Collection cups – enables you to run several individual samples before cleaning and re-using them. Option for all user groups to have own cups

Click Here for a Video of the Multi Shot