

**Quote #**

RMT0001535

Quote Date

11/30/2017

Valid Until

12/27/2017

This Quote Was Prepared For :

Yunqing 'Kevin' Kang Ph.D.
Assistant Professor
Florida Atlantic University
Ocean and Mechanical Engineering
777 Glades Road
Boca Raton, FL 33431

Phone : 561.297.3943**Email :** kangy@fau.edu***This Quote Was Prepared By:***

Name: R. Mark Taylor
Territory Manager

Phone: (770) 312-0819**Fax :** (302) 427-4041**Email :** mtaylor@tainstruments.com***All prices are offered in USD.***

Item	Part #	Description	Qty.	Unit Price	Ext. Price
<i>Discovery Hybrid Rotational Rheometer</i>					
1	533002.901	HR-2 Discovery Hybrid Rheometer: New Discovery Hybrid Rheometer represents the latest technological breakthroughs from the world's leader in rheology. It combines a patented drag cup motor, a second generation magnetic bearing, force rebalance transducer technology (FRT), and True Position Sensor (TPS) into a single-head Hybrid rheometer. The HR-2 model offers a torque range of 2 nN.m to 200 mN.m, ultra-high resolution of 10 nanoradians, high angular velocity to 300rad/s, and normal force up to 50N. The HR-2 delivers unsurpassed direct strain, direct rate, and direct stress control. It includes popular patented Smart Swap(r) geometries, a wide range of Smart Swap(r) temperature systems and options, and new TRIOS Software for performing Flow, Step Transient (Creep and Stress Relaxation), and Oscillation experiments. TRIOS comes standard with a comprehensive data analysis package that includes curve fitting, user defined models, TTS, and viscoelastic transformations.	1	82,600.00	82,600.00
<i>Advanced Peltier Plate</i>					
2	533209.901	DHR & AR Series Smart Swap Advanced Peltier Plate: Plugs into any DHR & AR-G2, AR2000/ex, or AR1500ex and automatically configures the software for immediate use. Maximum temperature is 200 °C. Use with range of Quick Change Plates of different materials of construction and surface finishes; requires Quick Change Plates Holder P/N: 402751.902. Also use with various Quick Change Disposable Plates; requires Quick Change Disposable Plates Holder P/N: 402751.901. NOTE: Upper Heated Plate recommended for use at temperatures above 75 °C. For AR-Series instruments, add DHR to AR Quick-Connect Plumbing Adapter (P/N: 533230.901).	1	5,190.00	5,190.00
3	402751.902	Quick Change Plate Holder: For use with ARES-G2 APS, DHR & AR Series Quick Change Plates on Smart Swap Bayonet Peltier Plate	1	380.00	380.00

(PN: 533209.901).

4	402491.901	DHR, Stainless Steel, 20 mm, Quick Change Plate	1	355.00	355.00
5	511206.906	DHR & AR-G2, Stainless Steel, 20 mm, 2 deg Cone, NST: Upper cone for use with lower Peltier plate. Smart Swap geometry for use with DHR & AR-G2 instruments only.	1	1,510.00	1,510.00
6	511200.905	DHR & AR-G2, Stainless Steel, 20 mm Plate: Upper plate for use with lower Peltier plate. Smart Swap geometry for use with DHR & AR-G2 instruments only.	1	1,650.00	1,650.00
7	402622.901	ARES-G2, APS, Stainless Steel, 50 mm, Quick Change Plate: For use with ARES-G2, APS, Standard Flat Plate (P/N: 402619.901).	1	355.00	355.00
8	511504.905	DHR & AR-G2, Stainless Steel, 50 mm, 1 deg Cone: Upper cone for use with lower Standard Peltier Plate and Advanced Peltier Plate. Smart Swap geometry for use with DHR & AR-G2 instruments only.	1	1,720.00	1,720.00
9	511500.905	DHR & AR-G2, Stainless Steel, 50 mm Plate: Upper plate for use with lower Standard Peltier Plate and Advanced Peltier Plate. Smart Swap geometry for use with DHR & AR-G2 instruments only.	1	1,720.00	1,720.00
10	531070.901	Hard Anodized Aluminum Solvent Trap for Advanced Peltier Plate. For use with Peltier Plate Solvent Trap Geometries. Includes location ring for simple and precise loading and spacer ring for height adjustment when Quick Change Plates are used.	1	2,350.00	2,350.00
11	403209.901	Air Cooled Peltier Circulator (110 / 220V, 50 / 60 Hz): for DHR & AR-Series and ARES Series Peltier Temperature Control Systems. Obtainable Temperature ranges when using air cooled circulator as follows: DHR & AR-Series Peltier Plate = 0 to 200 °C; DHR & AR-Series Peltier Concentric Cylinder = 0 to 150 °C; ARES-G2 and ARES CLASSIC Peltier Plate = -20 to 140 °C; ARES-G2 Advance Peltier System = -10 to 120 °C.	1	1,780.00	1,780.00
12	999800.529	<i>DHR & AR-Series Installation & Training Fee: Installation will be provided according to ISO 9000 procedure by one of our highly trained Service Engineers (average experience level of our field Service Engineers is over 15 years). The ISO 9000 procedure insures consistency and high quality throughout the installation process. IQ/OQ procedures are available for an additional fee. The installation will include calibration with a traceable standard and a certificate of calibration. Basic Training is also provided on the equipment after it is installed in your laboratory.</i>	1		0.00

Subtotal : 99,610.00

Discount - FAU Academic -41,300.00

Total : 58,310.00

General Notes

- 1) All prices are offered in USD.
- 2) The system described above requires a computer/controller that meets the minimum specifications as described in the appropriate TA Instruments' installation requirements document. To view the requirements document, please visit <http://www.tainstruments.com/support/installation-requirements/>.
- 3) Estimated shipping date (after receipt of formal purchase order and credit approval) is 2 weeks.
- 4) This offer also includes at no additional charge the following items: 1 year (including parts and labor, excluding consumables)
 - a. Guaranteed response times for phone calls, shipment of parts, and equipment repair
 - b. Free Hotline Telephone support from 8:30 am to 4:30pm (EST) Monday through Friday provided by our Applications Lab Staff
 - c. Free technical support at <http://www.tainstruments.com/support/applications/applications-hotline/>
 - d. Theory & Applications course and various e-training Quickstart course options. For more information, and to register, please visit <http://www.tainstruments.com/training/>
- 5) Payment Terms: Net 10 Days
- 6) Incoterms: FCA Shipping Point Prepaid & Add
- 7) Ship Via: Best Way
- 8) The amount displayed does not include tax charges; these will be added to your invoice as applicable. If your organization qualifies as tax-exempt, please submit your tax-exempt certificate with your order.

To Place An Order, Please Contact:

Name: Ms. Liz Mitchell

Tel.: 3024271024

Fax: 3024274041

Email: purchaseorders@tainstruments.com

TA Instruments - Waters L.L.C.

159 Lukens Dr.

New Castle, DE 19720

USA