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### Liquid Handling Price List / January 2010

#### CRYSTAL PHOENIX LIQUID HANDLING SYSTEM

- 602-0001-10 Crystal Phoenix W/Desktop,96 Flex head,1-ch.nano dispenser,flow through wash system
- 602-0002-10 Crystal Phoenix W/Desktop,96 Flex head,2-ch.nano dispenser,flow through wash system
- 602-0003-10 Crystal Phoenix W/Desktop,96 Flex head,3-ch.nano dispenser,flow through wash system
- 602-0004-10 Crystal Phoenix W/Desktop,96 Flex head,4-ch.nano dispenser,flow through wash system
- 602-0001-11 Crystal Phoenix W/Laptop,96 Flex head,1-ch.nano dispenser,flow through wash system
- 602-0002-11 Crystal Phoenix W/Laptop,96 Flex head,2-ch.nano dispenser,flow through wash system
- 602-0003-11 Crystal Phoenix W/Laptop,96 Flex head,3-ch.nano dispenser,flow through wash system
- 602-0004-11 Crystal Phoenix W/Laptop,96 Flex head,4-ch.nano dispenser,flow through wash system

#### CRYSTAL GRYPHON LIQUID HANDLING SYSTEM

**New**

- 620-1000-10 Crystal Gryphon-Gryphon Base 100ul Flex head XY Stage,W/Desktop, Wash, Nano Module
- 620-1000-11 Crystal Gryphon-Gryphon Base 100ul Flex head XY Stage,W/Laptop, Wash, Nano Module
- 620-1001-00 Gryphon Base
- 620-1002-10 Gryphon Acc.-XY Stage, W/Desktop,Software
- 620-1002-11 Gryphon Acc.-XY Stage, W/Laptop,Software
- 620-1003-00 Gryphon Acc.-Wash system W/Pumps
- 600-3102-00 Gryphon Nano Nozzle Assy. **New ARI**

### **Base Modules**

- 600-0000-00 Base Module/desktop computer
- 600-0000-01 Base Module/laptop computer

### **Multi-needle Dispensing Head Modules**

- 600-1000-00 96 Head 100ul TCSS
- 600-1001-00 96 Head 250ul TCSS
- 600-1002-00 96 Head 500ul TCSS
- 600-1003-00 96 Head 1ml TCSS
- 600-1004-00 96 Head 1ml widebore TCSS
- 600-1010-00 96 Head 100ul Flexible
- 600-1011-00 96 Head 250ul Flexible
- 600-1012-00 96 Head 500ul Flexible
- 600-1013-00 96 Head 1ml Flexible
- 600-1100-00 384 Head TCSS
- 600-1110-00 384 Head Flexible

### **Wash Modules**

- 600-2000-00 Wash Module for 96-syringe head
- 600-2100-00 Wash Module for 384-syringe head

### **PHOENIX ACCESSORIES**

- 600-2200-00 Phoenix Flow Wask Kit
- 600-3000-01 Nano Nozzle
- 600-3102-00 Replacement Nano Nozzle Assy. **New ARI**
- 600-3400-00 Phoenix 96 Wash tubing Kit
- 600-3400-01 Phoenix Nano Wash tubing Kit
- 600-4001-01 Chilling Block (pink)
- 600-4001-02 Chilling Block (yellow)
- 600-4002-00 .2ml Protein Tubes (500 per bag)
- 600-4003-00 Wash Reservoirs (5 per pack)
- 600-4004-00 Hanging Drop Tool
- 600-4005-00 Phoenix Dispense Plate

### **ARI Nano Dispenser Upgrade New**

- 600-3100-01 ARI Nano Dispenser Upgrade, 1 channel
- 600-3100-01 ARI Nano Dispenser Upgrade, 2 channel
- 600-3100-01 ARI Nano Dispenser Upgrade, 3 channel
- 600-3100-01 ARI Nano Dispenser Upgrade, 4 channel

## PHOENIX SERVICE OPTIONS

### Syringe head preventative maintenance

*All syringes are removed, inspected and soaked in 5% acid solution. Syringes are then scrubbed by our proprietary method to ensure the smoothness of the glass barrel. Teflon plunger tips are replaced. Complete visual inspection of unit is performed. Syringes with excessive build-up requiring extended cleaning and needle replacement will result in additional charge. See needle refurbishment price list for details. Any replacement parts must be purchased separately subject to customer approval. Shipping to and from ARI added to cost.*

600-9900-00 96-syringe head maintenance

600-9910-00 384-syringe head maintenance

### Syringe head preventative maintenance and certification

*All syringes are removed, inspected and cleaned. Teflon plunger tips are replaced. Dispense precision certified. Precision certification results and inspection report returned with unit. All mechanical parts are cleaned and lubricated. Optical sensors are cleaned and tested. Electrical system is inspected and tested. Unit is reassembled and tested. Service typically completed within 5-7 working days after unit's arrival. Syringes with excessive build-up requiring extended cleaning and needle replacement will result in additional charge. See needle refurbishment price list for details. Any replacement parts must be purchased separately subject to customer approval.*

600-9901-00 96-syringe head maintenance with certification

600-9911-00 384-syringe head maintenance with certification

### Phoenix extended warranty

*Extended warranties, available only to U.S. and Canada\*, cover all parts except syringes and those parts subject to normal wear such as Teflon tips and tubing. If repairs cannot be completed with phone assistance or by customer, a service person will repair unit on site. \* Customers outside the U.S. and Canada please see local distributor for warranty and service options.*

600-9910-01 Phoenix, 1 year

600-9910-02 Phoenix, 2 year

600-9910-03 Phoenix, 3 year

### Nano extended warranty

*Extended warranties, available only to customers in the U.S. and Canada\*, cover all parts except nano needle and those parts subject to normal wear such as nano tubing. Service work is performed in Sunnyvale, CA, and will be completed within 5-7 working days upon receipt of unit, all shipping will be paid by ARI. If a loaner unit is required, one will be provided. Extended warranties are available for all units. Unit must be shipped in original container. ARI has shipping containers available at \$ 125 each, part number 600-3500-00*

### Nano extended warranty

600-9910-04 Nano, 1 year

600-9910-05 Nano, 2 year

600-9910-06 Nano, 3 year

600-9910-07 Nano, 4 year

### Gryphon extended warranty

620-9910-01 Gryphon, 1 year

620-9910-02 Gryphon, 2 year

620-9910-03 Gryphon, 3 year

## **SYRINGES AND REPLACEMENT PARTS FOR PHOENIX, HYDRA, AND TANGO**

### **Replacement syringes for 96-syringe configurations**

- 102-9440-01 100µl syringe with TCSS needle
- 102-9440-04 100µl syringe with flexible needle
- 102-9440-00 290µl syringe with TCSS needle
- 102-9440-05 290µl syringe with flexible needle
- 102-9350-00 290µl syringe with TCSS wide-bore needle
- 102-9470-00 580µl syringe with TCSS needle
- 102-9470-02 580µl syringe with flexible needle
- 102-9350-01 580µl syringe with TCSS wide-bore needle
- 102-9470-01 1ml syringe with TCSS needle
- 102-9470-03 1ml syringe with flexible needle
- 102-9350-02 1ml syringe with TCSS wide-bore needle
- 102-9350-05 1ml syringe with uncoated SS wide-bore needle (2.5")
- 102-9350-06 1ml syringe with uncoated SS wide-bore needle (4")

### **Replacement syringes for 384-syringe configurations**

- 102-9370-01 100µl syringe with TCSS needle
- 102-9370-04 100µl syringe with flexible needle

### **Replacement barrel for 96 instruments: barrel,needle & Teflon tip; plunger rod not included**

- 102-9450-01 100µl syringe barrel with TCSS needle
- 102-9450-04 100µl syringe barrel with flexible needle
- 102-9450-00 290µl syringe barrel with TCSS needle
- 102-9450-05 290µl syringe barrel with flexible needle
- 102-9360-00 290µl syringe barrel with TCSS wide-bore needle
- 102-9480-00 580µl syringe barrel with TCSS needle
- 102-9480-02 580µl syringe barrel with flexible needle
- 102-9360-01 580µl syringe barrel with TCSS wide-bore needle
- 102-9480-01 1ml syringe barrel with TCSS needle
- 102-9480-03 1ml syringe barrel with flexible needle
- 102-9360-02 1ml syringe barrel with TCSS wide-bore needle
- 102-9360-05 1ml syringe barrel w/ uncoated SS wide-bore needle (2.5")
- 102-9360-06 1ml syringe barrel w/ uncoated SS wide-bore needle (4")

**Replacement barrel for 384 instruments: barrel & Teflon tip; plunger rod not included**

- 102-9380-01 100µl syringe barrel with TCSS needle
- 102-9380-04 100µl syringe barrel with flexible needle

**Replacement Teflon tips for stainless steel and flexible syringes**

- 105-9220-01 100µl, 100 tips per pack (96-syringe configuration)
- 105-9230-01 290µl, 100 tips per pack
- 105-9240-01 580µl, 100 tips per pack
- 105-9250-01 1ml, 100 tips per pack

**Replacement Teflon tips for wide-bore syringes**

- 105-9260-01 290µl, 100 tips per pack
- 105-9270-01 580µl, 100 tips per pack
- 105-9280-01 1ml, 100 tips per pack

**Replacement Teflon tips for stainless steel and flexible syringes**

- 105-9320-01 100µl, 400 tips per pack (for 384-syringe configuration)

**Factory replacement of Teflon tip, including cleaning of glass barrel**

- 105-9400-03 100µl syringe (96-syringe configuration)
- 105-9400-01 290µl syringe
- 105-9400-02 580µl syringe
- 105-9400-04 1ml syringe
- 105-9900-01 Plunger Tip Loading Tool **New**

**Factory replacement of wide-bore Teflon tip, including cleaning of glass barrel**

- 105-9500-01 290µl wide-bore syringe
- 105-9500-02 580µl wide-bore syringe
- 105-9500-03 1ml wide-bore syringe

**Factory replacement of Teflon tip, including cleaning of glass barrel**

- 105-9100-01 100µl syringe (for 384-syringe configuration)

**Factory replacement of needle and Teflon tip, including cleaning of glass barrel**

- 102-9510-03 100µl syringe with TCSS needle
- 102-9510-04 100µl syringe with flexible needle
- 102-9510-05 290µl, 580µl or 1ml syringe with TCSS needle
- 102-9510-06 290µl, 580µl or 1 ml syringe with flexible needle
- 102-9510-07 290µl, 580µl or 1ml syringe w/TCSS wide-bore needle
- 102-9510-09 1ml syringe with uncoated SS wide-bore needle

## HYDRA SERVICE OPTIONS

### Inspection and diagnosis

*The head is visually inspected for damage; unit is opened and lead screws inspected; power supply and boards tested; safety sensors tested; motors inspected and power level verified; unit reassembled and written diagnosis generated.*

102-9905-01 Hydra96 and Hydra96 AW; Hydra384 and Hydra384 AW

### Preventative Teflon tip maintenance

*All syringes are removed, inspected and soaked in 5% acid solution. Syringes are then scrubbed by our proprietary method to ensure the smoothness of the glass barrel. Teflon plunger tips are replaced. Complete visual inspection of unit is performed. Syringes with excessive build-up requiring extended cleaning and needle replacement will result in additional charge. See needle refurbishment price list for details. Any replacement parts must be purchased separately subject to customer approval.*

102-9900-07 Hydra96 and Hydra96 AW

102-9910-07 Hydra384 and Hydra384 AW

### Preventative maintenance and certification

*All syringes are removed, inspected and cleaned. Teflon plunger tips are replaced. Dispense precision certified. Precision certification results and inspection report returned with unit. All mechanical parts are cleaned and lubricated. Optical sensors are cleaned and tested. Electrical system is inspected and tested. Unit is reassembled and tested. Service typically completed within 5-7 working days after unit's arrival. Syringes with excessive build-up requiring extended cleaning and needle replacement will result in additional charge. See needle refurbishment price list for details. Any replacement parts must be purchased separately subject to customer approval.*

102-9901-07 Hydra96 and Hydra96 AW

102-9911-07 Hydra384 and Hydra384 AW

**Note: For all service options, shipping of units is paid by customer. ARI will provide container for \$125 plus shipping and applicable tax, if any. Terms: Net 30 days, FOB Sunnyvale, CA.**

102-9999-01 Hydra Shipping Container

102-9999-02 Shipping Container for Hydra Pump & X-Y Stage

## MISCELLANEOUS SERVICE EQUIPMENT

### Cleaning wires (10 per pack)

102-9490-00 Cleaning wires for 290µl, 580µl and HLA syringes

102-9490-01 Cleaning wires for 100µl and flexible needle syringes

102-9490-02 Cleaning wires for wide bore syringes

### Hydra Wash Pump Accessories

102-9430-04 Hydra pump tubing repair kit

102-9430-04D Hydra pump tubing repair kit (for DMSO)

102-9430-08 Wash Module tubing set, 6'

## TANGO HEAD SERVICE OPTIONS

### Preventative Teflon tip maintenance

*All syringes are removed, inspected and soaked in 5% acid solution. Syringes are then scrubbed by our proprietary method to ensure the smoothness of the glass barrel. Teflon plunger tips are replaced. Complete visual inspection of unit is performed. Syringes with excessive build-up requiring extended cleaning and needle replacement will result in additional charge. See needle refurbishment price list for details. Any replacement parts must be purchased separately subject to customer approval.*

102-9900-08 Tango96 head

102-9910-08 Tango384 head

### Preventative head maintenance and certification

*All syringes are removed, inspected and cleaned. Teflon plunger tips are replaced. Dispense precision certified. Precision certification results and inspection report returned with head. All mechanical parts are cleaned and lubricated. Service typically completed within 5-7 working days of unit's arrival. Syringes with excessive build-up requiring extended cleaning and needle replacement will result in additional charge. See needle refurbishment price list for details. Any replacement parts must be purchased separately subject to customer approval.*

102-9901-08 Tango96 head

102-9911-08 Tango384 head

**\* Note: For all service options, shipping is paid by customer. Tango heads must be shipped in original containers. Terms: Net 30 days, FOB Sunnyvale, CA. Appropriate labor charges will be added for disassembly and reassembly of Tango heads.**

## HYDRA EXTENDED WARRANTIES

*Extended warranties, available only to customers in the U.S. and Canada, cover all parts except syringes and those parts subject to normal wear such as Teflon tips. Service work is performed in Sunnyvale, CA, and will be completed within 5-7 working days upon receipt of unit. Extended warranties are available for all units built after 1998; for older units, contact ARI. All units to be warrantied must pass an inspection, catalog number 102-9905-01. All shipping charges are to be paid by customer. Unit must be shipped in original container. ARI has stock, at \$125 each.*

### Hydra96 extended warranty

102-9900-01 Hydra96, 1 year

102-9900-02 Hydra96, 2 year

### Hydra96 AW extended warranty

102-9910-01 Hydra96 AW, 1 year

102-9910-02 Hydra96 AW, 2 year

### Hydra384 extended warranty

102-9900-04 Hydra384, 1 year

102-9900-05 Hydra384, 2 years

### Hydra384 AW extended warranty

102-9910-04 Hydra384 AW, 1 year

102-9910-05 Hydra384 AW, 2 years

## CRYSTALLIZATION PRODUCTS

	CrysCam Digital Microscope System: System includes X_Y stage, 3MP camera, 6.5 zoom ration lens and CrysScore image capture and scoring software with desktop computer(one year warranty)
610-1000-10	
	CrysCam Digital Microscope System: System includes X_Y stage, 3MP camera, 6.5 zoom ration lens and CrysScore image capture and scoring software with desktop computer(one year warranty)
610-1000-11	
610-1000-00	CrysCam Digital Microscope with video capture software (no computer)
610-1000-01	X-Y Stage with scoring software for CrysCam
NEW!	610-1001-01 Plate Adapter for CrysCam -- Linbro Plate
NEW!	610-1001-02 Plate Adapter for CrysCam -- Q Plate
NEW!	610-1001-03 Plate Adapter for CrysCam -- Terasaki Plate

### Protein crystallization trays (sold in 120-tray case quantities only)

102-0001-00	96-2 well Intelliplate,(new improved low vol. reservoir)	
102-0011-00	96-2 well Intelliplate, (original)	
102-0001-01	96-2 well intelliplate, (flatbottom)	
102-0001-10	96-2 well, <b>Low profile</b>	<b>New</b>
102-0001-13	96-3 well <b>Low profile</b>	<b>New</b>
102-0001-03	96-3 well intelliplate (low vol. reservoir)	
102-0002-00	48-well optimization plate	
102-0003-00	48-well screening plate	
102-0004-00	24-4 well intelliplate	<b>New</b>
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**Note: Many product variations are available upon request.  
Refurbished Hydras are in stock and can be configured  
to fit your needs. Priced accordingly.  
One-year warranty on all reconditioned units.**

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**Replacement syringes for VPrep 200ul Flex      New**

- 200-7000-01    Refurbishment, Single Syringe for 200ul VP, Flex
- 200-8545-01    Single Syringe for 200ul VP, Flex
- 200-8555-01    Replacement Barrel for 200ul VP, Flex
- 200-8565-01    Replacement Plunger Rod w/tip for 200ul VP
- 200-8575-01    Refurbishment of Plunger Rod w/tip for 200ul VP, Flex
- 200-8585-01    Replace Tip & Clean Barrel for 200ul VP
- 200-8595-01    Replacement Teflon Tips for 200ul VP (100 per pack)

**Replacment syringes for VPrep 50ul Flex      New**

- 200-7000-02    Refurbishment Single Syringe for 50ul VP, Flex
- 200-8554-02    Single Syringe for 50ul VP, Flex
- 200-8555-02    Replacement Barrel for 50ul VP, Flex
- 200-8565-02    Replacement Plunger Rod w/tip for 50ul VP
- 200-8575-02    Refurbishment of Plunger Rod w/tip for 50ul VP
- 200-8585-02    Replace Tip & Clean Barrel for 50ul VP
- 200-8595-02    Replacement Teflon Tips for 50ul VP (100 per pack)

**Replacement syringes for 50ul PlateMate      New**

- 210-7000-01    Refurbishment Single Syringe PM, 50ul Flex
- 210-8545-01    Single Syringe for PM, 50ul Flex
- 210-8555-01    Replacement Barrel for PM, 50ul Flex
- 210-8565-01    Replacement Plunger Rod w/tip for PM, 50ul
- 210-8575-01    Refurbishment of Plunger Rod w/tip for PM, 50ul
- 210-8585-01    Replace Tip & Clean Barrel for PM, 50ul
- 210-8595-01    Replacement Teflon Tips for PM, 50ul (100 per pack)

**Replacement syringes for VPrep 50ul SST      New**

- 200-7000-03    Refurbishment Single Syringe 50ul VP, SST
- 200-8554-01    Single Syringe 50ul, VP SST
- 200-8555-03    Replacement Barrel for 50ul VP, SST
- 200-8665-02    Replacement Plunger Rod w/tip for 50ul VP
- 200-8575-02    Refurbishment of Plunger Rod w/tip for 50ul VP
- 200-8585-02    Replace Tip & Clean Barrel for 50ul VP
- 200-8595-02    Replacement Teflon Tips for 50ul VP (100 per pack)

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