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INSTRUCTIONAL EQUIPMENT REQUEST

Due in Dean/Unit Head's Office on September 19, 2011 (FALL) and March 1, 2012 (SPRING)

The Definition of Instructional Equipment can be found in the California Community College's Budget and Accounting Manual. A copy of these definitions is on the PBC webpage:
<http://grapevine/pbc/InstructionalEquipment.php>

Name of Requestor: David Everett

Division/Unit : MSEPS III Viticulture and Winery Technology

Brief title of request (equipment or materials being requested must be similar, related or part of a system. Portable Ozone Pump System

Request amount (unit cost and total cost including tax and shipping.
Please include all costs including installation, modification to existing facilities to accomodate new equipment, etc.):
This should come from the vendor quote

Item (s) cost	\$ <u>12,500⁰⁰</u>
Tax (.0875)	\$ <u>984³⁸</u>
Shipping	\$ <u>N/A</u>
Installation	\$ <u>N/A</u>
Facilities Modification	\$ <u>N/A</u>
Other - <u>DISCOUNT</u>	<u>-\$ 1,250⁰⁰</u>
Total Cost	\$ <u>12,234³⁸</u>

Attach copy of quote(s), estimate(s) and requisition(s):
(Must attach quote & requisition; absence of either will delay processing)

Brief description of specific equipment or materials requested and what they will be used for: (include the # pieces being requested; i.e.: 10 crayola crayons, sky blue, etc. in 250 words or less)

Carlson and Associates Portable Ozone pump system; The unit will be used to instruct students on winery sanitation practices and to ensure equipment that is used to produce wine is free of microbial and/or bacterial infections. The most attractive aspect of the unit is that it sterilizes without using any harsh chemicals and it is completely safe.

Is this in your Program Review? Yes No

The portable ozone pump system falls under the protective umbrella of equipping a working wine production facility as mentioned in the Program Review doc. This piece will play an extremely important roll in protecting student work projects and the college's wine making efforts from bacterial and microbial infections due to unsanitary conditions. An Ozone pump system is found in most working wineries today.



Is it a replacement? Yes

Upgrade? Yes

New technology? Yes

Please explain?

The portable ozone pump system will be a welcome addition to the students and instructors of the VWT program. Ozone has the unique capability of completely sterilizing equipment as it cleans. This process is on the leading edge of winery sanitation in today's wine industry. The sterilization process is easy and safe using no harsh chemicals. Which means there is no need to purchase expensive sterilizing chemicals or dispose of chemicals down the drain or through a disposal company which translates to another expense. The use of ozone is highly recommended for barrel care as opposed to using large amounts of water or burning harsh sulfur into a barrel. This is highly prized technology.

Following is the evaluation criteria; please see corresponding Instructional Equipment Rubric.

Instructional and Service Impact

How will this item have a positive impact on instruction and/or teaching and learning in the classroom? Is this for use by the Instructor or students, or both?

Having this ozone pump system will have a dramatic effect on instruction just by the fact that we actually HAVE ONE!! This is leading edge technology and will prove to be an effective teaching tool. Students will value this opportunity which will enhance their employability in the wine industry. The system will be used by both sides of the VWT program by the instructor for educational purposes and by the students for hands on experience focusing on sterilization and sanitizing practices in the industry.

Not having an Ozone pump system has been difficult for instructional purposes. This is a very hands on piece of equipment that we have only been able to show a picture of and "tell" students how to use it.

Impact on Enrollment

Will the equipment impact enrollment, attract or increase the number of students participating in a course or program?

This pump system will certainly add to the list of the outstanding equipment acquired by the VWT program for instructional purposes. Acquiring this item will get us closer to completing the needs of a production facility used for instructional purposes. With the hands on opportunities our program offers, we will indeed see enrollments trend higher than they already do. Having this system will easily increase enrollments due to the simple fact that there will be actual instructional equipment (in the form of the pump system) to use for classroom instruction and experiential uses. We have seen enrollment trend higher and higher as LPC acquires more instructional equipment and this system is not an exception to that rule.

Access

How does this item promote the principles of universal design, by providing opportunities for under-represented populations & accommodate students with diverse learning styles?

The pump system is safe, portable and easy to operate with a simple ON / OFF switch located for operation from a sitting position. The hose does not carry any pressure which makes handling it very easy from a sitting position.

Outcomes

How will this equipment enable or enhance SLOs? What are the consequences related to learning outcomes if request is not funded?

SLO's relative to winery sanitation will be greatly enhanced. Winery sanitation is an important component in Winery Operations classes and having this equipment will benefit the students learning outcomes. Not having the pump system would compromise the SLO's relative to winery sanitation with nothing to operate for hands on experience.

Total Cost of Ownership (This is an attempt to identify what the ongoing costs of purchasing this equipment will be to the institution)

- a) **What is the lifespan of the equipment? 5 years? 10 years? 20 years?**
- b) **Is there sufficient current/planned space available for the storage and use of this equipment? If so, where will it be housed? If not, is there a proposed location and are there any costs associated with installation or modifications to the space?**
- c) **Are there operating costs and how will they be covered by the department?**
- d) **What will be required to maintain the equipment, such as regular servicing or upkeep? Who will perform maintenance, and what will the estimated costs be?**

The lifespan could be easily 20 years with only new technology threatening the phasing out of this unit. Taking into consideration how new this technology is, It would be easy to think we could get 20+years out of this unit.

the pump system already has a space dedicated for storage in room 806. No installation needed, it is a portable unit moved easily

Operating costs are ZERO. It only use water and it generates its own O3

routing servicing is covered by the manufacturer located in Healdsburg, CA; estimate costs of servicing are nominal and paid for by the VWT program funds.

Visibility/Profile within Community

Is this a “flagship” item that will bring recognition/notoriety to the College or raise the stature of the program? Will it attract students and/or enhance the image of the College in the community because of its rare, one-of-a-kind status?

This indeed will be a flagship item for the VWT program and the college. Most of the wineries in the community are small and can only dream of getting one of these units. This pump system will enhance the image of Las Positas College, the VWT program and its students greatly! The biggest benefit will be that our program will have the ability to instruct students on the practices of winery sanitation with the most modern technology offered.

Commitment to Sustainability

How does this equipment exceed basic sustainability goals and encourage renewable resources at the College? Is the design/operation of this item in keeping with the College's commitment to sustainable practices?

The strongest aspect of this piece of equipment is the fact that it uses NO HARSH CHEMICALS to clean and most importantly STERILIZE equipment! Nothing to wash down the drains and no chemical purchases!!! The other factor is that our winemaking efforts will be safer now due to the control of microbial infections which will produce healthier, cleaner wines which will go to market instead of down the drain.

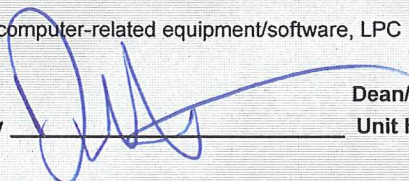
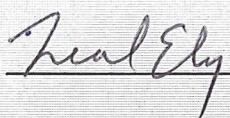
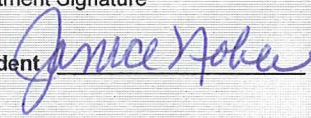
Health, Safety & Security

Does this equipment address any health, safety & security concerns? If so, please explain below.

NONE

Signatures (required)

(If requesting computer-related equipment/software, LPC IT Department Review is required.)

Requested by  Dean/
Unit Head  Vice President  IT Department Signature

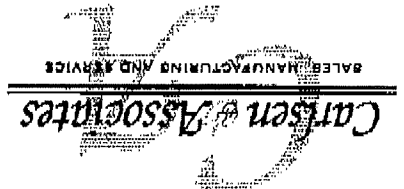
LPC VP Business/President _____ LPC Business Office Use (Account Number) _____

Subtotal Discount (Discount 10%) Shipping Cost (Best Way) Tax (CA_ALAMEDA_CO_AGAQ_EDNA_EEUR 8.75%) Total 12,500.00 -1,250.00 0.00 984.38 \$12,234.38			
1	CARLSEN PORTABLE OZONE PUMP SYSTEM 18+	12,500.00	ea
	<ul style="list-style-type: none"> • 15v 60HZ SGA21-002 • Destruat Chamber • 18+ Grams Per Hour • Garden Hose Adapters • Ozone Test Kit • 15 volt 		
Net 30	5/27/2012	David	
Jon Johnson	Jon Johnson	Best Way	

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 Viticulture and Winery Technology
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 Livermore CA 94551

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1439 Grove Street
 Healdsburg, CA 95448
 Phone: 707.431.2000



Q-12058	2/27/2012
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Quote

925-456-0673

This system is designed to be used in-line on any water stream with a flow rate between 5 to 100 gpm. Operating features include automatic stopping and starting based on water flow.

Ozone Technology SGA 21 Ozone Generator

- Ozone Production to 18+ gram/hr
- Oxygen Separator
- Air flow indicator

Mechanical Controls

- Stainless steel piping with 1-1/2" Triclamp inlet and outlet connections
- 1/3 hp stainless steel centrifugal booster pump
- 1/2 hp air compressor with 30 psi pressure relief valve

Controls

- Stainless steel enclosure mounted
- Off/On switch with LED indicator
- Water supply flow switch (5 gpm minimum flow rate and 100 gpm maximum)
- 50' of power cord
- Unit operates at 120 volts 20 amp 1 phase

Cart

- Foam-filled tires with polypropylene hubs
- 1-1/2" stainless steel tubing
- Stainless steel fitting basket

Off Gas Destruct Chamber

- Mounts on discharge port
- Vents to atmosphere through a replaceable magnesium dioxide filled bag
- Converts surplus ozone to oxygen

Sanitization

Article: Analysis of Oak Volatiles by Gas Chromatography-Mass Spectrometry after Ozone

Call for Pricing

- Applications**
 Treat Barrels
 Control Contamination
 Sanitize Containers
 Sanitize Tanks
 Sanitize Bottling Equipment
- Standard Features**
 Simple Operation
 18+ gram/hr Production
 Rugged Construction
 Auto Flow Switch
 5 - 100 gpm Water Flow
 Pressures up to 80 psi
 Two-Year Warranty
- Options Available**
 30 gram/hr Generator

