Invitation to Bid

LSUHSC-SHREVEPORT

BIDS WILL BE PUBLICLY OPENED:

February 26,2010 02:00 PM

VENDOR NO. :
SOLICITATION : **005410**
OPENING DATE : **02/26/2010**

Return Bid in Envelope/Labels Provided to:
Purchasing Department
PO Box 33932
Shreveport LA 71130

BUYER : **Wilson, Judy**
BUYER PHONE : **318/675-5290**
DATE ISSUED : **02/10/2010**
REQ. NO : **5953568**
FISCAL YEAR : **2010**

Animal Caging, Racks

INSTRUCTIONS TO BIDDERS

1. READ THE ENTIRE BID, INCLUDING ALL TERMS AND CONDITIONS AND SPECIFICATIONS.
2. FILL IN ALL BLANK SPACES.
3. ALL BID PRICES MUST BE TYPED OR WRITTEN IN INK. ANY CORRECTIONS, ERASURES OR OTHER FORMS OF ALTERATION TO UNIT PRICES SHOULD BE INITIALIZED BY THE BIDDER.
4. BID PRICES SHALL INCLUDE DELIVERY OF ALL ITEMS F.O.B. DESTINATION OR AS OTHERWISE PROVIDED. BIDS CONTAINING "PAYMENT IN ADVANCE" OR "C.O.D." REQUIREMENTS MAY BE REJECTED. PAYMENT IS TO BE MADE WITHIN 30 DAYS AFTER RECEIPT OF PROPERLY EXECUTED INVOICE OR DELIVERY, WHICHEVER IS LATER.
5. SPECIFY YOUR PAYMENT TERMS: _____ . CASH DISCOUNTS FOR LESS THAN 30 DAYS OR LESS THAN 1% WILL BE ACCEPTED, BUT WILL NOT BE CONSIDERED IN DETERMINING AWARDS

BY SIGNING THIS BID, THE BIDDER CERTIFIES:

* THAT NEITHER THIS BUSINESS ENTITY NOR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS IS CURRENTLY LISTED AS EXCLUDED OR SANCTIONED BY EITHER THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, OFFICE OF INSPECTOR GENERAL (OIG) OR THE GENERAL SERVICES ADMINISTRATION (GSA).
* THAT IF THIS BUSINESS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEAR ON EITHER LISTING, MY BID WILL BE REJECTED.
* THAT IF AT ANY TIME DURING THE TERM OF THE CONTRACT AWARDED AS A RESULT OF THIS INVITATION TO BID, THIS ENTITY OR ANY OF ITS EMPLOYEES OR SUBCONTRACTORS APPEARS ON EITHER LISTING, MY COMPANY WILL NOTIFY THE CONTRACTING AGENCY, AND THE CONTRACT WILL BE TERMINATED. THE CONTRACTING AGENCY WILL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM SAID TERMINATION.

THE BIDDER FURTHER CERTIFIES:

* COMPLIANCE WITH ALL INSTRUCTIONS TO BIDDERS, TERMS, CONDITIONS, AND SPECIFICATIONS.
* THIS BID IS MADE WITHOUT COLLUSION OR FRAUD.
* THAT ALL TAXES DULY ASSESSED BY THE STATE OF LOUISIANA AND IT'S SUBDIVISIONS, INCLUDING FRANCHISE TAXES, PRIVILEGE TAXES, SALES TAXES AND ALL OTHER TAXES FOR WHICH THE FIRM IS LIABLE HAVE BEEN PAID.
* THAT IF MY BID IS ACCEPTED WITHIN _____ DAYS FROM BID CLOSING TIME, MY FIRM WILL FURNISH ANY OR ALL OF THE ITEMS (OR SECTIONS) AT THE PRICE OPPOSITE EACH ITEM (OR SECTION).
* DELIVERY WILL BE MADE WITHIN _____ DAYS AFTER RECEIPT OF ORDER.

VENDOR PHONE NUMBER: FAX NUMBER:	TITLE	DATE
SIGNATURE OF AUTHORIZED BIDDER (MUST BE SIGNED)	NAME OF BIDDER (TYPED OR PRINTED)	

Invitation to Bid

STANDARD TERMS & CONDITIONS	Page 2 of 5
NUMBER : 005410 OPEN DATE : 02/26/2010 TIME: 02:00 PM	BIDDER:

6. DESIRED DELIVERY: 10 DAYS ARO, UNLESS SPECIFIED ELSEWHERE
7. TO ASSURE CONSIDERATION, ALL BIDS SHOULD BE SUBMITTED IN THE SPECIAL ENVELOPE, OR USE BID LABEL IF FURNISHED FOR THAT PURPOSE. IN THE EVENT YOUR BID CONTAINS BULKY SUBJECT MATERIAL, THE SPECIAL BID ENVELOPE SHOULD BE FIRMLY AFFIXED TO THE MAILING ENVELOPE.
8. BIDS SUBMITTED ARE SUBJECT TO PROVISIONS OF THE LAWS OF THE STATE OF LOUISIANA INCLUDING BUT NOT LIMITED TO L.R.S. 39:1551-1736; PURCHASING RULES AND REGULATIONS; EXECUTIVE ORDERS; STANDARD TERMS AND CONDITIONS;SPECIAL CONDITIONS; AND SPECIFICATIONS LISTED IN THIS SOLICITATION.
9. IMPORTANT: THIS BID IS TO BE MANUALLY SIGNED IN INK BY A PERSON AUTHORIZED TO BIND THE VENDOR (SEE NO.31).
10. INQUIRIES: ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE BUYER AT THE PHONE NUMBER AND ADDRESS SHOWN ABOVE.
11. BID FORMS: ALL WRITTEN BIDS, UNLESS OTHERWISE PROVIDED FOR, SHOULD BE SUBMITTED ON, AND IN ACCORDANCE WITH FORMS PROVIDED, PROPERLY SIGNED (SEE #31). BIDS MUST BE RECEIVED AT THE ADDRESS SPECIFIED IN THE SOLICITATION PRIOR TO BID OPENING TIME IN ORDER TO BE CONSIDERED.
12. STANDARDS OR QUALITY. ANY PRODUCT OR SERVICE BID SHALL CONFORM TO ALL APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AND THE SPECIFICATIONS CONTAINED IN THE SOLICITATION. UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION, ANY MANUFACTURER'S NAME, TRADE NAME, BRAND NAME, OR CATALOG NUMBER USED IN THE SPECIFICATION IS FOR THE PURPOSE OF DESCRIBING THE STANDARD OF QUALITY, PERFORMANCE, AND CHARACTERISTICS DESIRED AND IS NOT INTENDED TO LIMIT OR RESTRICT COMPETITION. BIDDER MUST SPECIFY THE BRAND AND MODEL NUMBER OF THE PRODUCT OFFERED IN HIS/HER BID. BIDS NOT SPECIFYING BRAND AND MODEL NUMBER SHALL BE CONSIDERED AS OFFERING THE EXACT PRODUCTS SPECIFIED IN THE SOLICITATION.
13. DESCRIPTIVE INFORMATION. BIDDERS PROPOSING AN EQUIVALENT BRAND OR MODEL SHOULD SUBMIT WITH THE BID, INFORMATION (SUCH AS ILLUSTRATIONS, DESCRIPTIVE LITERATURE, TECHNICAL DATA) SUFFICIENT FOR LSUHSC TO EVALUATE QUALITY, SUITABILITY, AND COMPLIANCE WITH THE SPECIFICATIONS IN THE SOLICITATION. FAILURE TO SUBMIT DESCRIPTIVE INFORMATION MAY CAUSE BID TO BE REJECTED. ANY CHANGE MADE TO A MANUFACTURER'S PUBLISHED SPECIFICATION SUBMITTED FOR A PRODUCT SHALL BE VERIFIABLE BY THE MANUFACTURER. IF ITEM(S) BID DO NOT FULLY COMPLY WITH SPECIFICATIONS (INCLUDING BRAND AND/OR PRODUCT NUMBER), BIDDER MUST STATE IN WHAT RESPECT ITEMS(S) DEVIATE. FAILURE TO NOTE EXCEPTIONS ON THE BID FORM WILL NOT RELIEVE THE SUCCESSFU BIDDER(S) FROM SUPPLYING THE ACTUAL PRODUCTS REQUESTED.
14. BID OPENING. BIDDERS MAY ATTEND THE BID OPENING, BUT NO INFORMATION OR OPINIONS CONCERNING THE ULTIMATE CONTRACT AWARD WILL BE GIVEN AT THE BID OPENING OR DURING THE EVALUATION PROCESS. BIDS MAY BE EXAMINED WITHIN 72 HOURS AFTER BID OPENING. INFORMATION PERTAINING TO COMPLETED FILES MAY BE SECURED BY VISITING LSUHSC DURING NORMAL WORKING HOURS. WRITTEN BID TABULATIONS WILL NOT BE FURNISHED.
15. AWARDS. AWARD WILL BE MADE TO THE LOWEST RESPONSIBLE AND RESPONSIVE BIDDER. LSUHSC RESERVES THE RIGHT TO AWARD ITEMS SEPARATELY, GROUP, OR IN TOTAL, AND TO REJECT ANY OR ALL BIDS AND WAIVE ANY INFORMALITIES.
16. PRICES. UNLESS OTHERWISE SPECIFIED BY LSUHSC IN THE SOLICITATION, BID PRICES MUST BE COMPLETE, INCLUDING TRANSPORTATION PREPAID BY BIDDER TO DESTINATION AND FIRM FOR ACCEPTANCE FOR A MINIMUM OF 30 DAYS. IF ACCEPTED, PRICES MUST BE FIRM FOR THE CONTRACTUAL PERIOD. BIDS OTHER THAN F.O.B. DESTINATION MAY BE REJECTED. PRICES SHOULD BE QUOTED IN THE UNIT (EACH,

BOX, CASE, ETC.) AS SPECIFIED IN THE SOLICITATION.

17. DELIVERIES. BIDS MAY BE REJECTED IF THE DELIVERY TIME INDICATED IS LONGER THAN THAT SPECIFIED IN THE SOLICITATION.

18. TAXES. VENDOR IS RESPONSIBLE FOR INCLUDING ALL APPLICABLE TAXES IN THE BID PRICE. LSUHSC AGENCIES ARE EXEMPT FROM ALL STATE AND LOCAL SALES AND USE TAXES.

19. NEW PRODUCTS. UNLESS SPECIFICALLY CALLED FOR IN THE SOLICITATION, ALL PRODUCTS FOR PURCHASE MUST BE NEW, NEVER PREVIOUSLY USED, AND THE CURRENT MODEL AND/OR PACKAGING. NO REMANUFACTURED, DEMONSTRATOR, USED OR IRREGULAR PRODUCT WILL BE CONSIDERED FOR PURCHASE UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION. THE MANUFACTURER'S STANDARD WARRANTY WILL APPLY UNLESS OTHERWISE SPECIFIED IN THE SOLICITATION.

20. CONTRACT CANCELLATION. THE STATE OF LOUISIANA HAS THE RIGHT TO CANCEL ANY CONTRACT, IN ACCORDANCE WITH PURCHASING RULES AND REGULATIONS, FOR CAUSE INCLUDING BUT NOT LIMITED TO THE FOLLOWING: (1) FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE CONTRACT; (2) FAILURE OF THE PRODUCT OR SERVICE TO MEET SPECIFICATIONS, CONFORM TO SAMPLE QUALITY OR TO BE DELIVERED IN GOOD CONDITION; (3) MISREPRESENTATION BY THE CONTRACTOR; (4) FRAUD, COLLUSION CONSPIRACY OR OTHER UNLAWFUL MEANS OF OBTAINING ANY CONTRACT WITH THE STATE; (5) CONFLICT OF CONTRACT PROVISIONS WITH CONSTITUTIONAL OR STATUTORY PROVISIONS OF STATE OR FEDERAL LAW; (6) ANY OTHER BREACH OF CONTRACT.

21. DEFAULT OF CONTRACT. FAILURE TO DELIVER WITHIN THE TIME SPECIFIED IN THE BID WILL CONSTITUTE A DEFAULT AND MAY CAUSE CANCELLATION OF THE CONTRACT. WHERE THE UNIVERSITY HAS DETERMINED THE CONTRACTOR TO BE IN DEFAULT, THE UNIVERSITY RESERVES THE RIGHT TO PURCHASE AN OR ALL PRODUCTS OR SERVICES COVERED BY THE CONTRACT ON THE OPEN MARKET AND TO CHARGE THE CONTRACTOR WITH COST IN EXCESS OF THE CONTRACT PRICE. UNTIL SUCH ASSESSED CHARGES HAVE BEEN PAID, NO SUBSEQUENT BID FROM THE DEFAULTING CONTRACTOR WILL BE CONSIDERED.

22. ORDER OF PRIORITY. IN THE EVENT THERE IS A CONFLICT BETWEEN THE INSTRUCTIONS TO BIDDERS OR STANDARD CONDITIONS AND THE SPEICAL CONDITIONS, THE SPECIAL CONDITIONS SHALL GOVERN.

23. APPLICABLE LAW. ALL CONTRACTS SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF LOUISIANA.

24. EQUAL OPPORTUNITY. BY SUBMITTING AND SIGNING THIS BID, BIDDER AGREES THAT HE/SHE WILL NOT DISCRIMINATE IN THE RENDERING OF SERVICES TO AND/OR EMPLOYMENT OF INDIVIDUALS BECAUSE OF RACE, COLOR, RELIGION, SEX, AGE, NATIONAL ORIGIN, HANDICAP, DISABILITY, VETERAN STATUS, OR A OTHER NON-MERIT FACTOR.

25. SPECIAL ACCOMMODATIONS. ANY "QUALIFIED INDIVIDUAL WITH DISABILITY" AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT WHO HAS SUBMITTED A BID AND DESIRES TO ATTEND THE BID OPENING, MUST NOTIFY THIS OFFICE IN WRITING NOT LATER THAN SEVEN DAYS PRIOR TO THE BID OPENING DATE OF THEIR NEED FOR SPECIAL ACCOMMODATIONS. IF THE REQUEST CANNOT BE REASONABLY PROVIDED, THE INDIVIDUAL WILL BE INFORMED PRIOR TO THE BID OPENING.

26. IDEMNITY. CONTRACTOR AGREES, UPON RECEIPT OF WRITTEN NOTICE OF A CLAIM OR ACTION, TO DEFEND THE CLAIM OR ACTION, OR TAKE OTHER APPROPRIATE MEASURE, TO IDEMNIFY, AND HOLD HARMLESS, LSUHSC, ITS OFFICERS, ITS AGENTS AND ITS EMPLOYEES FROM AND AGAINST ALL CLAIMS AND ACTIONS FOR BODILY INJURY, DEATH OR PROPERTY DAMAGES CAUSED BY THE FAULT OF THE CONTRACTOR,

OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. CONTRACTOR IS OBLIGATED TO INDEMNIFY ONLY TO THE EXTENT OF THE FAULT OF THE CONTRACTOR, ITS OFFICERS, ITS AGENTS, OR ITS EMPLOYEES. HOWEVER, THE CONTRACTOR SHALL HAVE NO OBLIGATION AS SET FORTH ABOVE WITH RESPECT TO ANY CLAIM OR ACTION FROM BODILY INJURY, DEATH OR PROPERTY DAMAGES ARISING OUT OF THE FAULT OF THE UNIVERSITY, ITS OFFICERS, ITS AGENTS OR ITS EMPLOYEES.

27. INTERPRETATION OF DOCUMENT: ANY INTERPRETATION OF THE BID OR QUOTATION DOCUMENT WILL ONLY BE MADE BY AN ADDENDUM ISSUED IN WRITING BY THE PURCHASING DEPARTMENT. SUCH ADDENDUM WILL BE MAILED OR DELIVERED TO EACH PERSON RECEIVING A SET OF THE ORIGINAL BID OR QUOTATION DOCUMENTS. LSUHSC WILL NOT BE RESPONSIBLE FOR ANY OTHER EXPLANATION OR INTERPRETATION OF THE DOCUMENTS.

28. ACCEPTANCE OF BID: ONLY THE ISSUANCE OF A PURCHASE ORDER OR A SIGNED CONTRACT CONSTITUTES ACCEPTANCE ON THE PART OF LSUHSC.

29. ADHERENCE TO JCAHO STANDARDS: WHERE APPLICABLE, LSUHSC IS ACCREDITED BY THE JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS AND AS SUCH ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS AGREE TO ADHERE TO THE APPLICABLE STANDARDS PROMULGATED BY THE COMMISSION.

30. PREFERENCE: IN ACCORDANCE WITH LOUISIANA REVISED STATUTES 39:1595, A PREFERENCE MAY BE ALLOWED FOR PRODUCTS MANUFACTURED, PRODUCED, GROWN, OR ASSEMBLED IN LOUISIANA OF EQUAL QUALITY. DO YOU CLAIM THIS PREFERENCE? YES _____ NO_____

SPECIFY THE LINE NUMBER (S) _____

SPECIFY LOCATION WITHIN LOUISIANA WHERE THIS PRODUCT IS MANUFACTURED, PRODUCED, GROWN OR ASSEMBLED _____

(NOTE: IF MORE SPACE IS REQUIRED, INCLUDE ON SEPARATE SHEET.)

DO YOU HAVE A LOUISIANA BUSNIESS WORK FORCE? YES _____ NO _____

IF SO, DO YOU CERTIFY THAT AT LEAST FIFTY PERCENT (50%) OF YOUR LOUISIANA WORKFORCE IS COMPRISED OF LOUISIANA RESIDENTS?

YES_____ NO_____

FAILURE TO SPECIFY ABOVE INFORMATION MAY CAUSE ELIMINATION FROM PREFERENCES.

PREFERENCES SHALL NOT APPLY TO SERVICE CONTRACTS.

31. SIGNATURE AUTHORITY. IN ACCORDANCE WITH L.R.S. 39:1594 (ACT 121), THE PERSON SIGNING THE BID MUST BE:

31.1. A CURRENT CORPORATE OFFICER, PARTNERSHIP MEMBER OR OTHER INDIVIDUAL SPECIFICALLY AUTHORIZED TO SUBMIT A BID AS REFLECTED IN THE APPROPRIATE RECORDS ON FILE WITH THE SECRETARY OF STATE; OR

31.2. AN INDIVIDUAL AUTHORIZED TO BIND THE VENDOR AS REFLECTED BY AN ACCOMPANYING CORPORATE RESOLUTION, CERTIFICATE OR AFFIDAVIT; OR

31.3. AN INDIVIDUAL LISTED ON THE STATE OF LOUISIANA BIDDER'S APPLICATION AS AUTHORIZED TO EXECUTE BIDS. BY SIGNING THE BID, THE BIDDER CERTIFIES COMPLIANCE WITH THE ABOVE.

Invitation to Bid

PRICE SHEET

NUMBER : 005410

OPEN DATE : 02/26/2010 TIME: 02:00 PM

BIDDER:

UNLESS SPECIFIED ELSEWHERE SHIP TO:

Receiving Department
3010 Linwood Avenue
Shreveport LA 71130

Line No.	Description			Unit Price	Extended Amount
1	Allentown Model MDJU140MVPSHEZX Animal Cage Rack (REFURBISHED) --- Specifications Attached Specify brand, model bid(if applicable) _____	6.00	EA	_____	_____
2	Allentown Model SB4100 Smart Bio-Pak Module (REFURBISHED) --- Specifications Attached Specify brand, model bid(if applicable) _____	5.00	EA	_____	_____
3	Allentown Model SB4100 Smart Bio-Pak Module --- Specifications Attached Specify brand, model bid(if applicable) _____	1.00	EA	_____	_____
4	Allentown Model EP5000E Exhaust-Pak HEPA Filtered Blower Specify brand, model bid(if applicable) _____	6.00	EA	_____	_____
	All items above must be compatible with existing caging equipment already in use and meet or exceed all recommendations cited in "The Guide for Care and Use of Laboratory Animals."				

ITEM # 1 **MODEL NO. MDJU140MVPSHEZX (refurbished)**

6 Each

Unit to include the following:

- All stainless steel 140 cage Ventilated Rack
- Jag 75 Mouse cage providing seventy-five square inches of floor space
- 140 each High Temperature polysulfone mouse cage (PC75JMV)
- 140 each stainless steel external water bottle wire bar lids (WBLEBT)
- 140 each High Temperature external bottle top, with filter (EBT27115F-NP)
- Opposite side 4" supply and 4" exhaust vertical plenums
- Stainless steel solid platforms
- Edstrom Easy Lock latching mechanism
- 5" diameter stainless steel plate casters with high temperature phenolic wheels, (2) with brakes
- Row and column identification tags
- Model Number and Serial Number Tags
- Plastic plenum covers

****NOTE:**
The automatic watering will be removed prior to delivery.

The Micro-VENT Environmental Systems provide High Efficiency Particulate Class 100 Air (HEPA) to the individual Micro-BARRIER Housing Systems.

Low velocity air is delivered to each cage greatly reducing the build-up of gaseous pollutants that may have hazardous effects on animal health. In addition, the ventilated racks reduce the amount of air-borne particulates into the Macro-Environment.

Micro-VENT Environmental Housing System for mice. Configuration: double faced, (7) wide x (10) high with (14) cages per tier for a total of (140) complete Reduced Height Micro-BARRIER Housing units (with 75 JAG cage) per rack.

All components are to be autoclavable and cage washable. The Coupling Design system provides an automatic "POSITIVE" lock mechanism to the air and water grommet connection and displays a visual indication for proper cage docking position

AIR and RACK SYSTEMS SPECIFICATIONS

HEPA filtered air is delivered (50-70 Air Changes per Hour) to each individual housing unit by the rack or wall mounted integrated HEPA filtering Smart Bio-Pak or facility supply unit delivering "clean" air to the stainless steel delivery manifold system under positive pressure terminating in individual cage air injector tubes. The "clean" air is then delivered to each cage by means of a stainless steel cage mounted "bullet" air diffuser.

Exhaust air from each cage is captured by a unique "U" shaped negative pressure stainless steel channel manifold encapsulating three (3) sides of the Micro-BARRIER filter cover flange area, collected into a return air stainless steel sealed manifold system and finally forced through either a HEPA filtered rack mounted integrated Exhaust Pak blower system and exhausted into the room atmosphere or directly into the in-house HVAC System.

Both (4) inch supply and (4) inch return plenums (located on opposite sides) utilize sealed access doors and drains for simplified cleaning and drainage after sanitization.

Rack assembly consists of (140) 16 gauge individual stainless steel cage runners (Solid Platform) mechanically locked to 1/2" x 3/4" 16 gauge internal tubular uprights. The split platform structure provides less light obstruction, thereby allowing for enhanced cage visibility. Each internal upright is heliarc welded to the external rack frame that will be constructed of a 14 gauge 1" x 1" sq. tubular base, uprights and upper frame structure to insure strength.

The rack shall also include cage column positions that shall be permanently lettered from "A" through "N" across the top row on each rack with "A" starting at the upper left (supply manifold side) and terminating at "G" at the upper right and "H" starting at the upper left (exhaust manifold side) and terminating at "N" at the upper right. Cage row positions shall be permanently numbered from "1" through "10" along the left column of each face of rack with "1" starting at the upper left (supply manifold side) and terminating at "10" at the lower left and this numbering sequence shall be repeated on the other face of the rack.

The entire assembly shall be mounted on 5" diameter stainless steel plate casters, with high temperature phenolic wheels, (2) with brakes.

Nominal overall dimensions without blower modules:
69.812" W x 29.250" D x 79.312" H

MICRO-BARRIER CAGE SYSTEM

Each rack shall be equipped with (140) Reduced Height Micro-BARRIER Housing assemblies. Each assembly consists of:

- PC75JMV - a high temperature "Udel" polysulfone 75 JAG mouse cage
- WBLEBT - a stainless steel external water bottle wire bar lid
- EBT27115F-NP- external bottle top with filter, no pan

Please Note: Vendor will provide replacement filter sheets at no additional charge for the life of the Micro-BARRIER Top if applicable.

Mechanical Operation

Proper docking to the air and/or watering grommets shall be achieved by placing the Micro-BARRIER Housing System within the channel or cage guide. This operation will automatically open the lock/indicator mechanism (continually allowing both hands to secure the cage assembly) permitting the BARRIER Housing assembly to slide towards the air/water connection systems. Proper docking shall be achieved by gently sliding the BARRIER assembly to the rear of the cage guide channel. Activation (air and/or watering) shall take place immediately when the cage assembly stops its front to rear travel. Once in position, positive locking shall be achieved automatically when the swing lock mechanism engages in the front of the cage holding it secure to the air/water manifolds.

Disengagement of the Barrier System from the Micro-VENT Unit is achieved by placing both hands and slightly pushing forward on the cage body (with the back of the hand opening the lock mechanism, clearing the cage body) and gently pulling the assembly forward.

Visual Indicator

A visual positive lock indicator will determine proper activation of the air/water assembly. This positive lock indicator shall be comprised of a RED cage indicator tab located on the swing lock mechanism. The indicator will protrude (to the right) approximately 1/2 " from a stainless steel housing mechanism when the cage is not within the specified locking position of the air/water connection device. In order to achieve and assure proper connection of the Micro-BARRIER Housing System to the air/water connection device, the RED indicator tab must be completely encased within the stainless steel housing.

Absence of any RED markings from the barrel of the indicator tab shall indicate that the proper connection has been achieved. Location of the indicator shall be directly above the lock arm on the right front side of each Micro-Barrier Housing System

ITEM #2 **MODEL NO. SB4100 (refurbished)**

5 Each *Smart* Bio-Pak module is a HEPA filtered air supply unit designed specifically for the Caging Micro-FLO and Micro-VENT Environmental Systems. The lightweight 20 lb. module is constructed of an aluminum cabinet with an electro static powder coated textured white surface. Each *Smart* Bio-Pak shall be complete with prefilter (Aluminum framed Scott foam media, 45 PPI, washable and flame retardant), **forward impeller fan**, HEPA filter (99.99% efficient @ .3 microns Emery 3004 tested) and a 10 ft power cord. The HEPA module shall also feature a universal power supply with a 24 VDC motor blower that assures consistent performance under various electrical conditions (85-264 VAC., 50/60

Hz.). A microprocessor control board automatically adjusts the blower speed, utilizing "feed-back" control technology to maintain constant air flow as the HEPA filter begins to load.

Each unit will also be equipped with various lighted indicators (located on each front panel) and an LCD Panel Display. The front panel will house an on-off switch, a single green light for normal operations and a series of two (2) red indicator lights that will illuminate if a malfunction occurs. The red warning lights will illuminate if problems are sensed with the filter or blower. In addition, an LCD screen (located below the indicator panel) shall identify cage ACH (air Changes per Hour). In addition there is a maintenance mode which can be accessed by a certifier or ACE technician to display rack CFM (cubic feet per minute), inlet air temperature, motor speed in RPM and ACH.

The *Smart* Bio-Pak shall also feature an external alarm connection for remote monitoring. Relay, resistive, analog, and digital monitoring configurations available. Complete connection details and operating requirements are available upon request.

ITEM #3 **MODEL NO. SB4100**

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