



**Vacuum Bedding Dispensing System
Vacuum Bedding Delivery System**

PRODUCT COMPARISON TABLE

<p align="center">Roe Biomedical Products VBDS 4900 Vacuum Bedding Dispensing System</p>	<p align="center">Other Automated Bedding Dispensing Systems with Vacuum delivery</p>
<p>Single compact unit combines multiple functions into one small foot print (60" L x 54" W + roll-off conveyor)</p>	<p>Multiple pieces of equipment are required to satisfy all the necessary functions for vacuum bedding dispensing</p>
<p>Mechanically flips cages with clamp and rotary inverter</p> <ul style="list-style-type: none"> ● cages are automatically indexed and aligned ● object recognition technology detects cage size 	<p>Cages are randomly drop flipped, some with mechanical assistance, resulting in high rates of incomplete cage flipping and random cage distribution</p>
<p>Dispenses</p> <ul style="list-style-type: none"> ● non-flowable beddings: pulp paper, paper wad, paper chip, shredded wood, wood shavings ● flowable beddings: cob, wood chip ● select enrichment products 	<p>Dispensing</p> <ul style="list-style-type: none"> ● Limited to highly flowable bedding products: cob, wood chip
<p>Volumetric dose of bedding into the centers of cages High dosing volume repeatability for all products</p>	<p>Curtain (water fall type) dose is dependent on hopper level. Timed devices have limited dosing repeatability</p>
<p>Automatically adjusts to multiple cage sizes and manufactures for dosing amounts and location using object recognition technology</p>	<p>Curtain style are manually adjustable, recirculating unused bedding from the dosing process. Timed pneumatic devices require manual adjustment.</p>
<p>Dust collection is internally integrated into the system</p> <ul style="list-style-type: none"> ● collects dust at the source inside the dispenser ● retracting dust shield creates an enclosed chamber during dispensing, preventing dust from escape 	<p>Separate dust collection units are added to the dispensers, requiring additional space. Dust is not contained with in the dispensing area, allowing dust to escape into the environment.</p>
<p>Air filtration is contained within the system with optional HEPA filtration optional</p>	<p>Dust collection for the vacuum system is located in a separate utility – mechanical room</p>
<p>Vacuum receiver is built in, seamlessly recharges with product, without disruption of either delivery operation or bedding dispenser operation, from remote bulk bags or storage silos.</p>	<p>Cyclone and batch type vacuum receivers are separately added units to the dispensers requiring additional space and/or hoppers, in addition to remote bulk bags or storage silos.</p>
<p>Vacuum blower is located with in the system. No other utility-mechanical room or space is required.</p>	<p>Vacuum Generators require separate utility – mechanical rooms with space requirements of 144 ft. sq and additional inter-connecting vacuum piping</p>
<p>Graphic Touch Panel Interface with embedded graphics Easy for operators to understand the use.</p>	<p>Operators are unaware of status of supply or system function unless or until operation is disrupted.</p>
<p>PLC has built in communication modem and data acquisition capabilities for in-house and/or remote system management and control. The self-diagnostic feature monitors the operating parameters.</p>	<p>Controls are limited to operation of system.</p>
<p>Less than 70 db @ 2'.</p>	<p>Greater than 75 db, plus a dust collection system.</p>