EZ VACUUM PUMP
SUA01 Series/SUB01 Series

USER’S MANUAL

EZ Animal Products are proud to bring you the Ultimate EZ Vacuum Pump. We have been using it as our main electrical source now going on many years for all our milking units. This piece of Equipment is Manufactured & Retrofitted for Animal use & Guaranteed by;

WHEELER ENTERPRISES INC. dba EZ ANIMAL PRODUCTS
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US PATENTS #6,058,686. #6,260,338. PATENT PENDING #62/690,734
OR APPLIED FOR ON ALL OTHER PRODUCTS.

PLEASE KEEP THIS USER’S MANUAL FOR FUTURE INSTRUCTIONS OR FOR ORDERING REPLACEMENT PARTS. PLEASE READ ALL WARRANTIES AND THE CARE AND MAINTENANCE OF YOUR EQUIPMENT, WATCH THE DVD, AND READ THE ENCLOSED INSTRUCTION SHEET.
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1 SAFETY INFORMATION
When using electrical products, especially when children are present, basic safety precautions should always be followed. Read all instructions before using. Important information is highlighted by these terms:

⚠ NOTE
Information to which you should pay special attention.

READ ALL USER’S MANUAL BEFORE USING.

2 AC POWER SOURCE

⚠ CAUTION
The Model SUA01 Series / SUB01 Series is used with a power supply allowing operation on AC voltage (115 VAC, 60 Hz / 230 VAC, 50-60 Hz). However, the correct power source must be used to connect to adaptable wall power.

In the event you purchased the Ez Power-Pak, this unit may be operated off the 300 Watt Inverter, using a 20 Volt DeWalt, or 18 Volt Milwaukee or Mikita Battery. (at least a 5 amp or higher is recommended.)

3 ELECTRICAL

Compressor:
If the overload protector shuts off the motor frequently, you may have a low voltage situation. Low voltage can also be suspected when:
1. The motor does not get up to full power or speed.
2. Other motor operated appliances fail to operate properly. Too many motor operated appliances on same circuit.

⚠ NOTE
The motor of this compressor has a thermal overload protector. If the motor overheat, the overload protector will shut off the motor. If this occurs, turn the ON / OFF switch to the OFF position and allow the motor to cool (approximately 5 minutes). Restart compressor. If the compressor fails to start, wait an additional 5 minutes before attempting to restart. If this fails, inspect the fuses on your suction unit. If the unit still does not restart, call EZ Animal Products for further assistance.
NOTE
Before attempting to start a cold unit, let the unit reach room temperature in a heated area. "DO NOT LEAVE THE ULTIMATE EZ MILKER IN THE BARN/SHED DURING COLD WEATHER!!"

INTRODUCTION

Your SUA01 Series/SUB01 Series Vacuum Pump that produces a maximum vacuum of 560mmHg. However, it is equipped with a safety release valve on top of the Overflow jar, and will not go above 12 1/2 inches of mercury or 310mmHg. The unit is equipped with an 800ml Overflow Jar incase of dumped bottles of milk during the milking process.

Features:
- New air filter. Filter design helps to provide an open air flow.
- High quality vacuum regulator and anti-vibration vacuum gauge setting.
- Oil-less, permanent lubrication.
- Bottle with overflow protection.
- Superior performance and high reliability for continuous operation design.
- Easy carry and easy cleaning.
- Label attached to vacuum gauge for easy pre-setting for animal to be milked. RED ARROW FOR COWS, CAMELS, MARES. BLACK ARROW FOR SHEEP AND GOATS. (Refer to operating instructions)

Following the recommended operating and maintenance procedures outlined in this user’s manual will maximize the life of this product. Refer to the diagrams on page 6.
ILLUSTRATION IMPORTANT PARTS

MODEL: SUA01 Series/SUB01 Series

1. Vacuum Adjust Knob
2. Vacuum Gauge
3. Air Filter
4. Connection Tubing
5. Safety release valve
6. Air Tubing to Animal Milker
7. 800cc Overflow Bottle
8. Holder
9. Base
10. Cord Fixed Support
11. Power Switch
12. Power Cord
13. Fuse
SET-UP

1. Connect either end of the connecting tubing (item# 4) to the top of overflow bottle connector then connect the other end to the Air filter.
2. The air milling tubing should be connected to collection bottle at the outlet labeled (patient). Please assure that all connections are secure and without leaks before using.

HOW TO OPERATE YOUR NEW VACUUM PUMP UNIT

1. Before use, check the specification label on the side of the vacuum pump to ensure that the voltage and current indicated on the unit correspond with the voltage and current available. Make sure the power switch located on the side of the unit is in the “Off” position before connecting the unit to a power source.

2. Switch the power switch to “I” position (on), the unit start running.

Figure 3
"Off " position

Figure 4
"On" position
3. Adjust the vacuum level from 0 to 300 mmHg for cow's, camels and mares, (RED ARROW) AND 280 mmHg (BLACK ARROW) for Goats and Sheep. by turning the vacuum adjust knob (clockwise to increase vacuum and counter-clockwise to decrease vacuum). Referring to the vacuum gauge while setting the desired level of vacuum. To Accurately read the gauge, always have all 2 or 4 milking hoses clamped down or off and allow the gauge to reach a stable vacuum reading.

Figure 5

RED ARROW for Cows, Camels & Mares.

BLACK ARROW for Goats and Sheep.

Figure 6
WIRE BOTTLE CARRIER #UEZW22  
(Btls not included)

QT. BOTTLES 2 PAK  #EZ002  
18OZ BOTTLES 2 PAK  #EP02  
8 OZ BOTTLES 4 PAK  #EZ804

EZ SILICONE INFLATION  
- SMALL  #EZS12  
- MEDIUM  #EZS11  
- LARGE  #EZS13

NEW 300 WATT INVERTER  
- #EZPP01-ML  
- #EZPP01-DW  
- #EZPP01-MK

ULT EZ BUCKET ATTACHMENT, PLASTIC  
#UBKT001P

ULT EZ BUCKET ATTACHMENT, STAINLESS STEEL  
#UBKT001S

ULT EZ TUBE BRUSH 42 inch #ULT001  
ULT EZ TUBE BRUSH 66 inch #ULT002

ULTIMATE EZ CANVAS BAG  
#EZB11

ULTIMATE EZ EXTRACTION TUBE  
#EZT02U
**REPLACEMENT PARTS FOR VACUUM PUMP**

- OVERFLOW JAR #ULZ101 (hoses not included)
- AIR FILTER #UL86003
- ULTIMATE EZ AIRLINE KIT #ULZA01
- ULT EZ PUMP GAUGE #172VG
- ULT EZ REGULATOR VALVE #ULEZ21
- ULTIMATE EZ PUMP #UEZ005
- ULTIMATE EZ MILKER #UEZ005

**NOTE**
1. If one of the bottles drops off the teat, the unit will suction the milk into the Overflow jar, or if you overfill the Bucket it will suction milk into the Overflow jar. If this happens, finish milking and take the Overflow Jar off, and clean out air tubes and Jar and replace.

2. Always transport unit with vacuum adjust knob rotated fully clockwise in case unit is dropped.

**CAUTION**
1. When automatic float shut-off is activated, contents of the Overflow Jar should be emptied. Further Operating could cause damage to the vacuum pump.

2. Should Milk be aspirated back into the unit, send your vacuum unit to EZ Animal Products for a detailed inspection as the vacuum pump may have been damaged.
**CLEANING INSTRUCTIONS**

**Clean Overflow Jar:**
1. Turn off the vacuum unit and allow vacuum to drop, then disconnect AC power source.
2. With the Overflow jar still in the holder, remove the Blue lid. The bottle can now be taken out of the holder to be emptied.

3. Overflow jar should be cleaned and replaced when ever you have suctioned milk into it.
   a. Wash in a hot water / dishwashing detergent solution and rinse with clean, hot tap water. Then wash in one part vinegar to three parts hot water solution. Rinse with hot tap water and air dry.
   b. Upon replacing Overflow jar lid, there is a small thin silicone seal on the inside of the Blue Lid. It has little holes in it and they have to be seated over the small indents of the lid. Make sure they are seated properly or you will not have a proper vacuum seal.

⚠️ **NOTE**

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**Figure 7**

Overflow Blue Lid
Holder
Overflow Jar
Safety Release Valve

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#UEZ005
**CAUTION**
Do not submerge in water as this will result in severe damage to the vacuum pump.

**Clean Tubing:**

1. Disconnect the tubing and Silicone Inflations from the Bottles or Buckets. Follow the Quick Clean and Pre clean video supplied, with the Ultimate Ez Milker. Use warm saoopy water and when appropriate the 42 inch SS brush for the tubing.

2. Tubing should be rinsed thoroughly after every use by running hot tap water through it followed by a solution of one part vinegar to three parts hot water.

3. Rinse with hot tap water and air dry, (follow instruction on DVD).

4. Keep the outer surface of the tubing clean by wiping with a clean, damp cloth and hang the tubing over a door or a chair back so it can air dry properly.

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**MAINTENANCE**

Inspect Milking tubing and Overflow Jar for leaks, cracks, etc. before each use.

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**DANGER**

**Electric shock hazard**
Do not attempt to open or remove the suction cabinet. If a service is required, return your suction to EZ ANIMAL PRODUCTS. Opening or tampering with the unit will void warranty.

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**Air Filter Change:**

1. Air filter should be replaced every SIX months. If overflow occurs, change the filter immediately.

2. Remove filter by disconnecting it from tubing connected to pressure adjusting valve and tubing connected to Overflow Jar lid assembly.

3. Replace with a new Air filter and connect to above two tubing. Additional filters can be purchased from EZ ANIMAL PRODUCTS.
Figure 8

Ultimate EZ milker with Stainless Steel Bucket and EZ Power-Pak Attachment. For Dewalt- Makita or Milwaukee Batteries. (Batteries not included.)

**Fuse Change:**
1. Use only the same type of fuse to replace the broken fuse.
2. Fuse specification: Miniature Glass Fuse 5x20mm, Fast Blow (Quick Acting), F2A/250V.
Your SUA01 Series/SUB01 Series Vacuum Pump contains no user-serviceable parts. If you believe your unit is not working properly, BEFORE YOU RETURN IT TO EZ ANIMAL Products please take a few moments to check for these possible causes:

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit does not turn on</td>
<td>1. Check power source and connection</td>
</tr>
<tr>
<td></td>
<td>2. Ensure that the wall outlet is live</td>
</tr>
<tr>
<td></td>
<td>3. Check power cord is not damage</td>
</tr>
<tr>
<td>Motor runs, no vacuum</td>
<td>1. Verify tubing connection security</td>
</tr>
<tr>
<td></td>
<td>2. Check for leaks or tubing kinks</td>
</tr>
<tr>
<td></td>
<td>3. Check lid on Overflow Jar</td>
</tr>
<tr>
<td></td>
<td>4. Make sure switch is ON if using EZPower Pack</td>
</tr>
<tr>
<td>Low Vacuum</td>
<td>1. Use vacuum adjust knob to increase vacuum level</td>
</tr>
<tr>
<td></td>
<td>2. Check system for leaks</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS / CLASSIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>(L) 375 x (W) 175 x (H) 250 mm (14.8 x 6.8 x 9.8 in)</td>
</tr>
<tr>
<td><strong>Weight.</strong></td>
<td>5.5kgs (12.1Lbs)</td>
</tr>
<tr>
<td><strong>Maximum Vacuum</strong></td>
<td>560 ± 3% mm Hg</td>
</tr>
<tr>
<td><strong>Flow Range</strong></td>
<td>&gt; 40 LPM</td>
</tr>
<tr>
<td><strong>Sound Level</strong></td>
<td>&lt; 58 dBA</td>
</tr>
<tr>
<td><strong>Electrical Requirements</strong></td>
<td>SUA01: AC 115 V~/ 60Hz</td>
</tr>
<tr>
<td></td>
<td>SUB01: AC 230 V~/ 50-60Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>70 watts</td>
</tr>
<tr>
<td><strong>Overflow Jar Capacity</strong></td>
<td>800 ml (cc)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>32° ~ 104° F (0° ~ 40°C)</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>95% RH</td>
</tr>
<tr>
<td><strong>Operating Atmospheric Pressure</strong></td>
<td>10.2 ~15.4 psig ( 70 ~106 kpa )</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>14° ~ 158° F (-10° ~ 70°C)</td>
</tr>
<tr>
<td><strong>Storage Humidity</strong></td>
<td>0 ~ 95%</td>
</tr>
<tr>
<td><strong>Storage Atmospheric Pressure</strong></td>
<td>7.3 ~15.4psig ( 50 ~106 kpa )</td>
</tr>
<tr>
<td><strong>Fuse Specification</strong></td>
<td>Miniature Glass Fuse 5x20mm, Fast Blow (Quick Acting), F2A/250 V</td>
</tr>
<tr>
<td><strong>Equipment Classifications</strong></td>
<td>With respect to protection from electric shock Class I</td>
</tr>
</tbody>
</table>
**WARRANTY**

**Two years limited warranty**
The compressor portion of the SUA01 Series／SUB01 Series Vacuum pump is warranted to be free from defective workmanship and materials for a period of two years from date of purchase and six months on accessories.

Any defective part(s) will be repaired or replaced at EZ ANIMAL PRODUCTS option if the unit has not been tampered with or used improperly during that period. Make certain that any malfunction is not due to inadequate cleaning or failure to follow the instructions. If repair is necessary, please contact : WHEELER ENTERPRISES INC.

⚠️ **NOTE**
This warranty does not cover providing a loaner unit, compensating for costs incurred in rental while said unit is under repair, or costs for labor incurred in repairing or replacing defective part(s).

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE EXPRESS LIMITED WARRANTY AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. THIS IS THE EXCLUSIVE REMEDY AND LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. SOME STATES (IN THE US) DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE LIMITATION OR EXCLUSION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state (in the US).

**Manufacturer's Note**
Thank you for choosing a SUA01 Series／SUB01 Series vacuum Unit. We would like you to be a satisfied customer. If you have any questions or comments, please send them to our address below.

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