VetPro® 5000
Wall / Cabinet & Table Mount
Dental Delivery System

For Models:
8001-001
8001-002
8001-003
8001-005
8001-006
8001-007

User’s Guide

003-1902-00 Rev L (11/10/15)
Product Information

Calling for Service

Note
Model / Serial number information is required when calling for service.

If service is required, contact your Midmark dealer.

To contact Midmark directly:

1-800-Midmark (1-800-643-6275) or 937-526-3662
8:00 am until 5:00 p.m., Monday through Friday (EST)
[excluding standard U.S. holidays]
Table of Contents

Important Information
Serial Number Location ........................................................................................................2
Safety Symbols ......................................................................................................................4
Transportation / Storage Conditions ...................................................................................4
Intended Use ..........................................................................................................................5
Electromagnetic Interference ...............................................................................................5
Disposal of Equipment ..........................................................................................................5

Operation
Master ON / OFF Switch ......................................................................................................6
Flex Arm ..................................................................................................................................6
Manual Shut-Off Valves ........................................................................................................7
Pressure Regulator Valves ..................................................................................................8
Water Toggle Switch .............................................................................................................9
Self-Contained Water System ............................................................................................10
Handpieces ..........................................................................................................................11
Syringe ..................................................................................................................................14
Adjustment Knob Location .................................................................................................15

Cleaning / Maintenance
Cleaning ................................................................................................................................16
Maintenance ..........................................................................................................................17

Specifications
Specifications ....................................................................................................................22

Warranty
Warranty ...............................................................................................................................23
Important Information

Safety Symbols

**DANGER**
Indicates an imminently hazardous situation which will result in serious or fatal injury. This symbol is used only the most extreme conditions.

**WARNING**
Indicates a potentially hazardous situation which could result in serious injury.

**Caution**
Indicates a potentially hazardous situation which may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**Equipment Alert**
Indicates a potentially hazardous situation which could result in equipment damage.

Transportation / Storage Conditions

Ambient Temperature Range: 50°F to 104°F (+10°C to +40°C)
Relative Humidity: 10% to 90% (non-condensing)
Atmospheric Pressure: 700hPa (20 in.Hg) to 1060hPa (31 in.Hg)
Intended Use

To provide veterinarians and/or technicians with air & water to operate handpieces, scaler, syringes, and Midmark authorized accessories during veterinary dental procedures.

Electromagnetic Interference

This product is designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this product:

• Remove interfering device from room
• Increase separation between product and interfering device
• Contact Midmark if interference persists

Disposal of Equipment

At the end of product life, the dental unit, accessories, and other consumable goods may become contaminated from normal use. Consult local codes and ordinances for proper disposal of equipment, accessories and other consumable goods.
**Operation**

**Master ON / OFF Switch**

The master on / off switch must be ON to operate the delivery system.

- **ON**
- **OFF**

**Flex Arm**

To avoid injury to the patient or staff, the flex arm can be locked to prevent accidental movement. *(The flex arm will still move upward when locked.)*

---

**To Unlock / Lock Flex arm...**

A) Turn power on. Allow system to pressurize.

B) Push up release button to disengage lock and lower to desired height. It may be necessary to move head upwards slightly before lowering.

*Note: Flex arm lock buttons will not work unless the system is pressurized.*
Operation

Manual Shut-Off Valves - (Only for Units with Junction Box)

The manual shut-off valves allow you to stop the air and/or water supply at the point of input to the dental unit. This can be done during extended periods of no-use (ex. vacation, holidays, etc.), or in the event of a malfunction.

To shut off water to Dental Unit...

Rotate water shut-off valve knob clockwise.

To shut off air to Dental Unit...

Rotate air shut-off valve knob clockwise.
Operation

Pressure Regulator Valves - (Only for Units with Junction Box)

The pressure regulator valves allow you to adjust the air and water pressure that is supplied to the dental unit.

Recommended Settings
“City” Water Regulator Valve...........30 PSI
Air Regulator Valve.........................80 PSI
Water Bottle Regulator Valve..........30 PSI (Do not adjust!)

To adjust regulator...
A) Pull knob up to unlock.
B) Rotate knob until desired pressure is displayed on gauge.
C) Push knob down to lock.

Equipment Alert
The dental unit has been designed to operate at the recommend settings. Setting the pressure higher / lower than recommended may result in damage to the equipment or diminished performance.
Operation

Water Toggle Switch

The water toggle switch allows you to choose the water source for the delivery system. You may use either “City” water (tap water), or water from the self-contained water system bottle. Location of the switch is shown below.
Operation

Self-Contained Water - System

The self-contained water system allows you to control the quality of water used in your delivery system. It also provides a means for disinfecting the system’s internal tubing.

Caution

Residual air pressure may cause the water bottle to fell and/or bottle contents to spill or spray if not released.

Before you begin...
A) Turn master switch OFF.
B) Press syringe air button until all residual air pressure is released.

To fill the Self-Contained Water System...
A) Unscrew water bottle.
B) Fill bottle with water. (Distilled Water Is Recommended)
C) Be sure gasket is in place.
D) Screw bottle into mounting cap.

Note: If gasket is not installed properly, you will hear a hissing when the system is turned ON. Water bottle should be checked in between each patient and filled if necessary.
Before you begin...
Turn Master ON / OFF switch ON.
Move Water Toggle Switch to desired setting.

Step 1: Pull handpiece forward.

Step 2: Select Wet or Dry operation using the foot control toggle switch.

Note: The blue dot indicates Wet position.

Step 3: Press foot control pedal to deliver drive air to the handpiece.
Operation

Handpiece Care

**To Change Prophy Angle...**
A) Rotate chuck to the right to unlock.
B) Install Prophy angle, turn chuck release ring left to tighten.

**To Change Bur in High Speed Handpiece...**
A) Push button on back of handpiece and pull the bur out.
B) Push bur into handpiece. (The shank will only go in half-way)
C) Then push button on back of handpiece and push the bur in until shank is all the way in.

*Note: Friction grip burs (FG Style) are designed so that the entire straight portion of the shaft should be inside the chuck of the handpiece. You should only see the tapered portion of the bur if installed properly.*
Handpiece Care

**Install handpieces.**

**Swivel Coupler Connection**

Line up components properly to prevent damage resulting in hand piece failure.

Lightly spray the exposed o-rings with one step conditioner.

Tighten coupler firmly with wrench.

**Equipment Alert**
Complete manufacture’s instructions for “Infection Control / Sterilization found in the documentation included with the handpieces. Failure to do this will cause premature failure of handpieces.
**Operation**

**Syringe**

This page shows operation and adjustment for a standard 3-way syringe.

**Before you begin...**

Turn master ON / OFF switch ON. Move water toggle switch to desired setting.

**For air spray...**

Press air button.

**For water spray (mist)...**

Press air and water buttons.

**For water stream...**

Press water button.

**To adjust air spray pressure and water spray pattern...**

Rotate syringe air adjustment knob as necessary.

**To adjust water steam pressure and water spray pattern...**

Rotate syringe water adjustment knob as necessary.
Operation

Adjustment Knob Locations

Front View

Pressure Indicator
Pressure Gauge [Drive Air]
Coolant Water
Scaler Adjustment

Bottom View

Coolant Water Flush Button
Coolant Air
Syringe Water
Syringe Air
Drive Air
Cleaning

**Note**

Every veterinary practice setting is different and no one disinfectant is the best choice for every facility. There are several organizations educated in disinfection procedures. Refer to web sites of accredited sources that can assist veterinary personnel in choosing what is best for their practice. Listed below are a few of the sites.

*Organization for Safety & Asepsis Procedures*
http://www.osap.org

*Dept. of Health & Human Resources Centers for Disease Control & Prevention (CDC)*
http://www.cdc.gov

---

**When using disinfectants...**
- Carefully read the product label and directions for use.
- Do not exceed the dilution rate.

**Equipment Alert**
Refer to handpiece manufacturer for suggested cleaning procedures.
Maintenance

At the beginning of each work day...
- Fill water bottles with fresh distilled water.
- Flush handpieces.

Distilled water is not mandatory. However, water must meet requirements for drinking.

To Flush Delivery System...
A) Remove all handpieces that use water.
B) Open water needle valve.
C) Turn foot control toggle switch to WET.
D) Hold end of tubing over a container and press foot control for 30 seconds. Then press and hold flush button for 30 seconds. Repeat (step D) for all handpieces.
E) Press and hold syringe buttons (air & water) for 30 seconds.
F) Install newly disinfected handpieces.
G) Refill water bottle.

Between each patient...
- Remove disposable tips, instruments, etc..
- Flush delivery system.
- Clean handpieces and scaler per manufacturers instructions.
- Fill water bottles.
Maintenance - continued

At the end of each day...
- Bleach flush delivery system and empty water stem.
- Clean system.

EQUIPMENT ALERT
Do not use colored/scented bleach, or concentrations greater than recommended. Do not leave bleach solution in delivery system longer than 30 minutes, it could damage the delivery system.

To Bleach Flush Delivery System...
A) Remove all handpieces that use water.
B) Remove water bottles and fill with 9 parts water and 1 part bleach.
C) Open water needle valve.
D) Hold end of tubing over a container and press foot control for 30 seconds. Then press and hold flush button for 30 seconds. Repeat (step D) for all handpieces.
E) Press and hold syringe buttons (air & water) for 30 seconds.
F) Leave bleach solution in delivery system for 10 - 20 minutes, then remove / empty / rinse water bottles.
G) Fill water bottles with fresh water and repeat steps C thru E until bleach odor is gone.
H) Install newly disinfected handpieces.
I) Empty water bottles.
Maintenance - continued

To Clean System...
A) Disinfect handpieces according to manufacturer’s instructions.
B) Wipe down the WHIP head and operatory equipment with disinfectant.

Note: Refer to “Cleaning” page in this guide.

Air / Oil Separator

Periodically, check the gauze in the air / oil separator cup. When gauze is saturated it must be replaced.

Before you begin...
Turn master ON / OFF switch OFF.

To clean the air / oil separator cup...
A) Unsnap cup.
B) Dispose of saturated gauze.
C) Disinfect cup.
D) Install new gauze, then reinstall cup.
**Maintenance**

**Regulator Valve Filters (Only for Units with Junction Box)**

The air and water pressure regulator valves each have a sediment filter to prevent debris from entering the system. To maintain proper air and water flow, these filters should be replaced approximately every three months.

---

**Before you begin...**

*Turn off water & air supply to the dental unit by closing both manual shut-off valves.*

---

**Step 1:** Unscrew filter cap.
*Note: Use 9/16” wrench.*

**Step 2:** Unscrew retainer nut. Remove filter.

**Step 3:** Install new filter. Secure with retainer nut.
*Note: Install the filter & retainer nut with the ridged side up (as shown).*

**Step 4:** Reinstall filter cap.
*Note: Use 9/16” wrench.*
Maintenance - continued

Flex Arm - Pivot Point Adjustment

If the flex arm has too much play or is not moving freely, adjust the pivot point, set screws as necessary.

To Adjust Arms at Pivot Points..
If arms have too much play, tighten them (Clockwise).
If they do not move freely, loosen them (Counter-Clockwise).

Wall Mount Shown
Remove Bearing Cover to Access 4th Pivot Point, Set Screw
# Specifications

<table>
<thead>
<tr>
<th>Water Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reservoir</td>
</tr>
<tr>
<td>City Water</td>
</tr>
<tr>
<td>Pressurized System</td>
</tr>
<tr>
<td>Aseptic</td>
</tr>
<tr>
<td>Handpiece Flush System</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommended Pressure Settings (Junction Box)</th>
</tr>
</thead>
<tbody>
<tr>
<td>“City” Water Regulator Valve</td>
</tr>
<tr>
<td>Air Regulator Valve</td>
</tr>
<tr>
<td>Water Bottle Regulator Valve</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Circuit Breaker Protection</td>
</tr>
<tr>
<td>Frequency</td>
</tr>
</tbody>
</table>

**WARNING**

Equipment not suitable for use in the presence of a flammable anesthetic mixture.

**WARNING**

The Acteon Newtron® LED scaler complies with current electromagnetic compatibility standards. However, it must not be used by or on those with cardiac stimulators or other active implants unless adequate electromagnetic interference shielding is present. Check with a cardiologist to verify the EMI shielding capabilities of the implant. See enclosed Newtron® LED manual for further advisories.
Limited Warranty

SCOPE OF WARRANTY
Midmark Corporation ("Midmark") warrants to the original purchaser its Exam Room Casework, Veterinary products and components (except for components not warranted under "Exclusions") manufactured by Midmark to be free from defects in material and workmanship under normal interior use and service. Midmark’s obligation under this warranty is limited to the repair or replacement, at Midmark’s option, of the parts or the products the defects of which are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective.

APPLICABLE WARRANTY PERIOD
The applicable warranty period, measured from the date of delivery to the original user, shall be as follows:
• The VetPro® 5000 unit is warranted against defect in material and workmanship for a period of two years from the time of delivery.
DENTAL PRODUCTS are warranted against defect in material and workmanship for the period indicated below from the time of delivery:
a) 2 years for all products and components (except for the periods in b through d).
b) “KINK-VALVE” module carries a 10 year warranty.
c) Accessories not manufactured by Midmark are excluded (i.e. Fiber optic systems, Scalers, Handpieces, etc.).
d) Replacement parts and accessories carry a 90 day warranty

EXCLUSIONS
This warranty does not cover and Midmark shall not be liable for the following; (1) repairs and replacements required because of misuse, abuse, negligence, alteration, accident, freight damage, or tampering; (2) changes in color caused by natural or artificial light; (3) products which are not installed, used, and properly cleaned as required in the Midmark written “Installation” and or “Installation/Operation” Manual applicable for this product; (4) products considered to be of a consumable nature such as light bulbs and surge suppression product; (5) accessories or parts not manufactured by Midmark; (Any warranties on these items are extended directly by the manufacturer of these items to the original purchaser.) (6) specially manufactured products; (7) damage caused by animals; (8) charges by anyone (including Midmark’s authorized dealers) for adjustments, repairs, replacement parts, installation, or other work performed upon or in connection with such products which is not expressly authorized in writing in advance by Midmark.

EXCLUSIVE REMEDY
Midmark's only obligation under this warranty is the repair or replacement of defective parts. Midmark shall not be liable for any direct, special, indirect, incidental, exemplary or consequential damages or delay including, but not limited to, damages for loss of profits or loss of use.

NO AUTHORIZATION
No person or firm is authorized to create for Midmark any other obligation or liability in connection with the products.

THIS WARRANTY IS MIDMARK’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. MIDMARK MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS.