



AHS Series of Adjustable Height Sinks Owner's Manual

All rights reserved. No part of this Manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system without permission from Chaparral Fixtures.

1.0 Table of Contents

1.0	Table of Contents.....	2
2.0	Introduction.....	3
3.0	Safety Instructions.....	4
4.0	Intended Use of Equipment.....	8
5.0	Technical Specifications.....	9
6.0	Installation Guide.....	10
7.0	Instructions for Use.....	10
8.0	Equipment Maintenance.....	15
9.0	Equipment Ratings.....	17
10.0	Warranty.....	17
11.0	Contact Information.....	18

2.0 Introduction

Thank you for purchasing an Adjustable Height Sink system from Chaparral 1, Inc. (“Chaparral” or “Chaparral Fixtures”).

Chaparral’s Adjustable Height Sinks are manufactured in the United States out of type 304 stainless steel. The system is designed for use in hospitals, urgent care centers, medical offices, and medical laboratories. At Chaparral Fixtures, we are proud to continue our tradition of developing and providing high quality product solutions to the healthcare industry.

Chaparral Fixtures’ Adjustable Height Sinks are pre-assembled and subjected to a full function quality test before leaving our facility. We warrant our products are free from material and manufacturing defects-for a period of one (1) year, provided however, the warranty becomes void if the sink or any of its component parts is altered, misused, misapplied, or abused in any way. It is the responsibility of the system installers, users, and service technicians to read and correctly carry out the instructions in this Manual to prevent potentially unsafe and hazardous occurrences from occurring. A complete statement including the terms and limitations of the warranty can be found in Section 10.0 of this Manual.

Thank you for purchasing an Adjustable Height Sink system. We are committed to standing behind our products. Should you need assistance, please contact us directly at 888-246-9348 or by faxing to 877-246-9526.

Chaparral Fixtures

3.0 Safety Instructions

READ THE INSTRUCTIONS IN THIS MANUAL AND THE INSTALLATION RECOMMENDATIONS REFERRED TO IN SECTION 6 BEFORE ATTEMPTING TO INSTALL, OPERATE, OR SERVICE THIS PRODUCT. FOLLOW THESE INSTRUCTIONS AT ALL TIMES.

This Manual contains safety, installation, operation, maintenance, and user service instructions for the Chaparral Fixtures Adjustable Height Sink system. Chaparral Fixtures is not responsible for any alteration, misuse, misapplication, or abuse of this product resulting in property damage, personal injury or death.



FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL AND THE INSTALLATION RECOMMENDATIONS COULD RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

If you have any questions about the use of this product, the safety practices outlined in this Manual or would like a digital copy of this Manual, please contact:

Chaparral Fixtures
PO Box 11368
Portland, OR 97211-0368
Phone: 503-285-9553
Fax: 503-285-9526
www.chaparralfixtures.com

Verify System Selection: Before installing or operating the system, you must confirm that a Chaparral Fixtures Adjustable Height Sink system is appropriate for its proposed location. Pay

particular attention to the adjustable height feature and ensure the dimensions of the space where the sink is to be located will accommodate the height feature adjustments, and the plumbing and electrical connections required for its operation.

Handle System with Care: Use caution when handling or moving the sink system. Never handle the sink by the motor cables or power cord. Keep motor cables and power cords away from heat, sharp objects and direct moisture. If motor cables, power cords or hydraulic legs are damaged, discontinue all use and immediately have the suspect component(s) replaced with parts available from Chaparral prior to any further use. Do not attempt to disassemble system or system components without observing all safety requirements in this Manual.

Use of Trained and Qualified Personnel: System installation, operation and repair should only be done by persons having sufficient knowledge of the sink system and the contents of this Manual and the Installation Recommendations. In addition, they must have an understanding of all warnings and precautionary measures set forth in these safety instructions. Furthermore, these individuals must be trained, instructed and qualified to switch electrical circuits and equipment on and off in accordance with applicable governmental codes.

Avoid Hazardous Environments: Do not operate the system in any location out of doors or exposed to the elements. Do not expose the electrical components to moisture, and never allow water from the sink to come into contact with any electrical component. Avoid any chemical or corrosive environments. Do not operate the system in the presence of flammable solvents, propellants, and/or explosive materials (i.e. gas, vapor, dust, etc). Avoid temperatures outside of the system rated operating

temperature range of 32° to 86°F (0° to 30°C). Do not subject the sink to vibration and/or impact load conditions of any kind.

Installation Safeguards: Do not use the system for any purpose other than its intended function (see Section 4.0 of this Manual). Before operating the system, ensure the sink has sufficient lateral and vertical clearance from any other object or structure to prevent pinching or crushing hazards. Do not allow wall, cabinet, electrical lines, hydraulic or pneumatic lines, or any other fixed structures to obstruct the movement of the workstation during operation.

Operate with Caution: Always use extreme caution when using the adjustable height feature of the sink. Ensure no person or object is under or above the sink when adjusting the height. Always check to make sure there is sufficient clearance to allow for a change in height. Be sure there is sufficient slack for cables and supply hoses to accommodate a change in height. Do not allow cables or supply hoses to touch the ground.

Use proper personal protection equipment: As applicable, wear proper equipment and personal protective wear that is suited to your use of the sink, including but not limited to gloves and masks.

Keep Children Away: Do not allow any person under the age of sixteen (16) to operate this sink.

Observe Duty Cycle: The term “duty cycle” refers to the amount of time that a motor or system is in motion relative to the amount of time that it is resting. The Movotec[®] Q-Drive “Bolt-On” Lift System used in this sink system is designed for intermittent use only and is rated for a 10% duty cycle, meaning that if the lift system is in motion for one (1) minute, it must be at rest for at least nine (9) minutes before the next operation. It is also important to

note that the maximum system on-time is one (1) minute. To avoid damaging The Movotec[®] Q-Drive “Bolt-On” Lift System, the duty cycle must not be exceeded. Motor surfaces can become warm after extended operation that exceeds the duty cycle. Provide adequate ventilation to allow heat dissipation from within and around lift system components.

Load Capacity: Never exceed a load capacity of 1,000 pounds (including the weight of the sink). Never allow the sink bowls to fill with water more than 6 ½” above the bottom of the bowl.

Use of Accessories: Use only spare parts and accessories authorized or supplied by Chaparral Fixtures. As pertains to The Movotec[®] Q-Drive “Bolt-On” Lift System, do not replace or replenish system hydraulic fluid unless (i) the fluid is supplied by Suspa[®] Incorporated and (ii) all Suspa[®] guidelines are strictly observed.

Maintenance Procedures: Prior to performing any maintenance or service on The Movotec[®] Q-Drive “Bolt-On” Lift System, unplug the motor from the power source and remove the lift cylinders from the sink. While performing maintenance or service on The Movotec[®] Q-Drive “Bolt-On” Lift System, stabilize the sink to prevent personal injury or property damage.

Retract Legs Before Moving: To reduce the risk of property damage and personal injury, always lower the sink (retract the lift system legs) to its minimum height before moving the equipment.

Unplug Before Cleaning: Lower the sink to its minimum height and unplug the motor from the power source before cleaning. Clean system with a mild soap and water-damped cloth. Do not use corrosive cleaning agents or high pressure wash systems.

Make sure electrical components are clean and dry before plugging into the power source and operating the system.

SAVE THIS MANUAL AND THE INSTALLATION RECOMENDATIONS FOR FUTURE REFERENCE.

4.0 Intended Use of Equipment

The intended use of the Chaparral Fixtures Adjustable Height Sink system is to assist in the cleansing and pre-sanitation of objects, including but not limited to various medical instruments. The adjustable height functionality is intended to accommodate individuals of various heights, in order to provide a more functional, safe and ergonomic work environment.

The Chaparral Fixtures Adjustable Height Sink is intended for indoor use only, and is intended for use in wet locations. The Sink is not intended for final sterilization of items, but rather for pre-sterilization.

In no instance should the sink be used for *any* purpose other than that for which it is intended.

5.0 Technical Specifications

Parameter	Specification
Supply Voltage / Frequency	120V (+/-10%) / 50-60Hz
Amp Rating	3A
Standby Power Consumption	<0.6W
Switch Operating Voltage / Current	5VDC / 150mA
Hall Sensor Operating Voltage / Current	5VDC / 150mA
Operating Temperature Range	32° to 86°F (0° to 30°C)
Operating Humidity Range	5% to 85% (non-condensing)
Motor Controller Protection Class	I
Movotec [®] Q-Drive gear motor	24 volts DC
No-load speed of gear motor	160 rpm
No-load current of gear motor	3A
Max. operating torque of gear motor	75 lb-in (8.5N-m)
Range of vertical adjustment	Up to 11.6", typically 6"
Load capacity (including sink weight)	1,000 lbs.
Approx. Sink Weight: 3bowl / 2 bowl	346 lbs. / 288 lbs.



Double Insulation



Alternating Current

6.0 Installation Guide



The installation and initial operational check of your new system must be performed only by licensed and certified plumbers and electricians.



Be sure to follow all applicable national and local electrical and plumbing codes when installing the sink. **DO NOT** connect the system using a power cord and plug or an extension cord of any kind.

Please refer to the detailed installation recommendations that were sent with your Chaparral Fixtures Adjustable Height Sink system.

If you did not receive the Installation Recommendations with this Manual **DO NOT INSTALL OR OPERATE THE SINK**. Call Chaparral at 888-246-9348 before proceeding and the Installation Recommendations will be provided to you at no additional cost.

7.0 Instructions for Use



FOLLOW ALL SAFETY INSTRUCTIONS CONTAINED IN THIS MANUAL BEFORE OPERATING THIS SINK. FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

Position the sink and surrounding objects to allow safe access to the underside of the sink in order to provide access to the lift system motor and power cord. Do not position the equipment so that it is difficult to disconnect from the power source.

The Chaparral Fixtures Adjustable Height Sink system should never be interconnected to any other device. The Sink incorporates The Movotec[®] Q-Drive “Bolt-On” Lift System as the motor driven lift system enabling the adjustable height functionality. This lift system is not intended for continuous cycling (see Section 7.4).

7.1 Identification of Operating Controls and Their Use in All Operating Modes:

Locate the operating switch. Press the up arrow to adjust the sink upward to desired height (the sink cannot extend beyond its maximum height). Press the down arrow to adjust the sink downward to desired height (the sink cannot compress below its minimum height).

Locate the standard sink faucet(s) and the polypropylene faucet. Adjust the water stream and temperature (as applicable) using the faucet handles.

Locate the drain baskets and adjust positioning according to the desired water flow / sink water retainage.

7.2 Using the Sink:

Remove excess material from instruments before rinsing or placing them into the sink.

Pre-rinse the equipment as necessary.

Fill the sink bowls with the desired amount of water up to a maximum height of 6 ½” above the bottom of the sink bowl. Never allow the bowls to become completely filled with water, as this is not an efficient method for washing and poses personal

injury risks as well as risks to the sink's mechanical and electrical systems.

Add the chemical / detergent to the water in an amount instructed by the product manufacturer or supplier. Do not add the detergent or sanitizer to the sink prior to or during filling. Check with your cleaning chemical manufacturer or supplier to determine detergent concentration, sanitizer parts per million and sanitizer submersion times to ensure thorough cleaning. Comply with all applicable codes or regulations. Importantly, ensure that the detergent is low foaming, metal-safe and not excessively caustic / high in pH level.

Place instruments into the sink. Use proper washing device to scrub the equipment. **NEVER PLACE KNIVES OR OTHER SHARP OBJECTS IN THE SINK. SUBMERSING KNIVES OR OTHER SHARP OBJECTS INTO THE SINK MAY CAUSE BODILY INJURY.** Knives and other sharp objects must be washed individually. Remove items from the sink and drain the water.

Clean items that have been removed from the sink should be thoroughly rinsed and dried before transporting the items to final sterilization. Remove all detergent residues during the rinse. Dry the items on a clean drain board or on drying shelves (these are not supplied with the Adjustable Height Sink system). Adhere to all local codes and manufacturer recommendations for proper drying and stacking of items.

7.3 Wash, Rinse and Sanitizer Clean-up:

At the end of each shift, all sink bowls and drain boards should be thoroughly cleaned with hot, soapy water. It is also recommended to wipe down all the sink bowls and drain boards with a sanitizing

agent. Ask your chemical provider to recommend a sanitizer for your application.

7.4 Duty Cycle Monitoring:

The term duty cycle refers to the time that an electrical motor is energized versus the time that it is resting. The Movotec® Q-Drive “Bolt-On” Lift System incorporated into the Chaparral Fixtures Adjustable Height Sink system is designed to operate intermittently and is rated for a 10% duty cycle. This means that if the lift system energized for one (1) minute, it must be at rest for at least nine (9) minutes before the next operation. It is also important to note that the maximum system on-time is one (1) minute.

The duty cycle has been established to prevent the gear motor and motor controller electronics from overheating. If the system is operated beyond the published duty cycle, the gear motor and motor controller electrical components will get hot.

Repeated cycling beyond the published duty cycle may cause the gear motor and motor controller to malfunction or stop functioning, and voids the manufacturer’s warranty set forth in Section 10.0 of this Manual. Such a malfunction may impair the protection provided by the system. It may also cause the pump components to prematurely wear, thus reducing the life of the lift system. To avoid damaging the lift system, the duty cycle should never be exceeded.

For additional information, please reference The Movotec® Q-Drive “Bolt-On” Lift System User Manual located at:

http://www.suspa.com/fileadmin/3_bilder/Bilderpool/US-Files/Lift_Systems/manuals/670-00018A_Q-Drive_bolt-on_manual.pdf.

7.5 The Movotec[®] Q-Drive “Bolt-On” Lift System Reset Procedure:

Call Chaparral Fixtures at 503-285-9553 before resetting The Movotec[®] Q-Drive “Bolt-On” Lift System.

Should the lift system require a reset due to one of the conditions below, please consult Section 8.8 of The Movotec[®] Q-Drive “Bolt-On” Lift System User Manual located at:
http://www.suspa.com/fileadmin/3_bilder/Bilderpool/US-Files/Lift_Systems/manuals/670-00018A_Q-Drive_bolt-on_manual.pdf. Never perform a reset unless one of the following conditions is occurring:

- A new or replacement controller is introduced to an existing lift system.
- The motor cable is disconnected from the gear motor.
- The system is functioning improperly.

Subsequent to resetting the lift system, it is critical to reset the height limitations for the lift system. Instructions for this procedure can be found in Section 8.9 of The Movotec[®] Q-Drive “Bolt-On” Lift System User Manual located at:
http://www.suspa.com/fileadmin/3_bilder/Bilderpool/US-Files/Lift_Systems/manuals/670-00018A_Q-Drive_bolt-on_manual.pdf.

The specified countertop height range (above finished floor) is 34” – 40”. The work sink comes pre-programmed with these factory settings, and should be re-set to such subsequent to performing the reset procedure. See Chaparral AHS-US specification drawings for details on height adjustability range.

For further assistance call Chaparral Fixtures at 503-285-9553 or SUSPA® at 616-241-4200 (ask for Lift System Support).

8.0 Equipment Maintenance



FOLLOW ALL SAFETY INSTRUCTIONS CONTAINED IN SECTION 3.0 OF THIS MANUAL BEFORE INSPECTING OR PERFORMING MAINTENANCE ON THIS SINK. FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

The Chaparral Fixtures Adjustable Height Sink system should be inspected and maintained in accordance with this Manual in order to prevent premature deterioration and system failures.

Regarding maintenance, particular attention should be paid to the following potential causes of system failure:

Load Conditions: Whenever the Sink system bears more than its maximum load, immediately reduce the load below system limits to prevent premature wear of mechanical components. This will also prevent overheating and premature failure of electrical components.

Lift System Motor and Load Alignment: Pump and motor shafts can become misaligned if a lift system is installed incorrectly or if the motorized pump sustains an impact during transit or use. Misaligned motor and pump shafts can cause noise and uneven wear to the driving components which can lead to premature failure of the system. If the system drive shafts become misaligned, correct the alignment as needed after referencing the Movotec® Users Manual.

Sink Cleanliness: The following are recommended cleaning procedures to improve the useful life of your Chaparral Fixtures Adjustable Height Sink System:

1. Rinse the sink with clean water immediately and thoroughly after every use. This will remove any chloride and/or chemical residue.
2. Do not allow soap or other chemicals to remain in contact with the stainless steel surface for periods of time exceeding sixty (60) minutes.
3. Wipe dry with a soft cloth or sponge.
4. Towel dry after use to prevent mineral deposits.
5. Never leave wet cloths, sponges, or any other cleaning pad on the sink.
6. Never use a steel pad or any other metallic brush tools to clean your sink, since these steel or metal particles can become embedded in the surface of the sink.
7. Do not leave instruments or organic material on the sink surface for extended periods of time.
8. On a monthly basis, de-lime the sink by adding a de-liming agent to a sink of warm, fresh water and scrubbing. Ask your chemical sales representative to recommend a specific de-liming agent.

Lift System Cleanliness: Ordinary cleaning practices will pay off in increased service life of the lift system. Dust and dirt can restrict ventilation for electrical components and cause wear in moving components such as shafts and bearings.—Keep the system components-clean throughout their useable service life.

Power Cord and Hydraulic Tubing Damage: Check the power cord insulation and hydraulic tubing for visible signs of aging and wear. Replacement of damaged wiring and tubing will prevent future breakdowns and possible injury to personnel. These are not

user-serviceable parts. Should inspection reveal damage to the power cord or hydraulic system, please call Chaparral Fixtures at 888-246-9348 to order replacement parts.

9.0 Equipment Ratings

The Chaparral Fixtures Adjustable Height Sink system is made and intended for indoor use. Below are the electrical equipment ratings:

Parameter	Specification
Supply voltage / frequency:	120V / 50-60Hz
Amp Rating	3A
Frequency:	60Hz
Operating Voltage / Current:	5VDC / 150mA
Operating Temperature Range:	32° to 86°F (0° to 30°C)
Operating Humidity Range:	5% to 85% (non-condensing)



Double Insulation



Alternating Current

10.0 Warranty

Chaparral Fixtures hereby warrants that if the Adjustable Height Sink system has been properly installed and has not been subjected to abuse or misuse and proves to be defective in material or manufacturing (“defective item”) within a period of one (1) year from the date of delivery, Chaparral Fixtures will either repair or replace the defective item at its sole cost and expense. This warranty excludes ordinary wear tear, damages due to misuse, abuse or neglect, any failure due to improper installation, maintenance, or operation, and any damage due to repairs which

are unauthorized, undertaken without following applicable safety measures identified in this Manual or in violation of safety regulations. In the event Chaparral Fixtures fails to repair or replace a defective item within thirty (30) days after receiving written notice of the defect, then Chaparral Fixtures shall be liable to the Buyer for the lesser of: a) the actual costs of repair by a third party or b) replacement of the defective portion of the system. This paragraph sets forth the Buyer's sole and exclusive remedies for any breach of this warranty.

11.0 Contact Information

Chaparral Fixtures
PO Box 11368
Portland, OR 97211-0368
Phone: 888-246-9348
Fax: 877-246-9526
www.chaparralfixtures.com