



ARMITAGE SHANKS ARIDIAN URINAL – S6321 with Falcon cartridge

The Aridian Waterless Urinal from Armitage Shanks is a wall mounted urinal in vitreous china and can be used for exposed or concealed plumbing. The term ‘Waterless’ refers to the fact that Cisterns and Flush Pipes are not required. Water is ONLY needed when the time comes to change the cartridge!

Maintenance is easy!

With no mechanical components, the simplicity of the Aridian Waterless Urinal system means that it is much easier to maintain than conventional flushing urinals. Regular cleaning of Aridian consists of spraying on cleaner and wiping it off... and that's it. No water is needed. Full cleaning and maintenance instructions are included with all Aridian units and replacement cartridges. Instructions for ‘Recommended Cleaning Procedure’ and ‘Cartridge Change Procedure’ also appear later in this document.

How long do cartridges last?

Replacing cartridges, a simple job, but frequency of change depends on usage and may be different between urinals in one washroom! ARMITAGE SHANKS suggest cartridges will last up to 7000 uses, but in practice this could be as little as 4000. In a heavily used washroom 7000 uses will happen more quickly than in a lightly used washroom. The following chart will give you a rough guide.

| | |
|-----------------------------|---|
| Very heavily used washroom: | Over 300 uses per day – you may need to replace cartridges at least once a month. |
| Heavily use washroom: | 175-300 uses per day – you may need to replace cartridges every 4-8 weeks. |
| Medium use washroom: | 75-175 uses per day - you may need to replace cartridges every 8-16 weeks. |
| Light use washroom: | under 75 uses per day – this can be anything from 16 weeks to over 12 months! |

Replacement Cartridges

All replacement cartridge packs contain 1 x FALCON WATERFREE TECHNOLOGIES Waterless Cartridge, a sachet of ALLSEAL, a Cartridge Removal Key (metal), plastic gloves for handling old cartridges and a Sanitary bag for disposal of the old cartridge. Please note that the appearance of the FALCON cartridge has changed from time to time with the most recent change occurring in early 2012, when the design of the internal chambers were modified, the diverter shield was removed and the drainage slot changed. Thankfully the bayonet fittings remain the same so there are no compatibility issues!



Current style – from 2012



Previous style (diverter fitted)



Previous style (diverter removed)

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How it works.

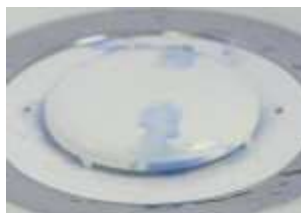
Like many great ideas, Aridian is based around simplicity. Installed in minutes and lasting years, it requires only minimal maintenance. Urine, which is 96% water, flows down the surface of the urinal and into the unique Sealtrap cartridge from FALCON WATERFREE TECHNOLOGIES. The patented cartridge is made from a non-stick, non-porous material and is designed to work like a funnel.



1. After being primed with water a special liquid called ALLSEAL is poured into the cartridge. ALLSEAL is mildly perfumed and also prevents foul air from rising up from the drain and into the washroom. The patented cartridge also features an O ring, which provides an airtight barrier between the cartridge and the urinal itself. The only maintenance required is routine cleaning of the fixture and an easy change of the cartridge. The frequency of change is dependant on usage.



2. The ALLSEAL liquid floats on the top of urine in the cartridge and provides an airtight barrier between the urine and the restroom. Urine passes through the ALLSEAL sealant which is less dense than water and resettles on top of the urine to restore the barrier between it and the restroom space.

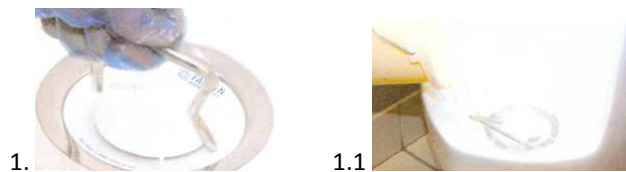


3. The cartridge collects uric acid salt sediment, hair and other debris leading to clearer waste pipes and zero water waste. As the cartridge is used, the amount of material trapped will increase. The cartridge will gradually fill with material ultimately to the point where the drain outlet becomes blocked. When it is completely full, you will see urine pooling in the bowl or the blue sealant will show. The cartridge should be changed immediately in either of these cases. Before the cartridge becomes completely full, there is a noticeable reduction in the speed of drainage.

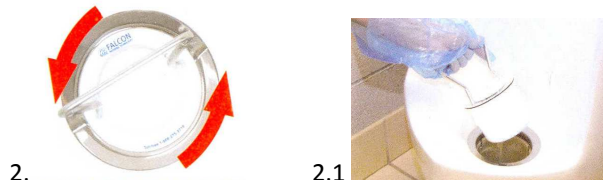
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Cartridge Change Procedure:



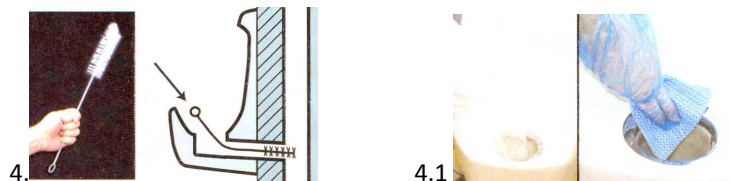
1. Insert key into cartridge (1) then pour 4-5 litres of soapy water into the cartridge to displace the urine (1.1)



2. Rotate the key to the left to unlock (2). Then lift and tilt the cartridge to drain all free liquids (2.1).



3. Place the used cartridge into the yellow bag supplied, tie bag to seal and dispose. Used cartridges can be disposed of in general waste or via sanitary waste bins.



4. Scrub the cartridge housing and tail pipe with a 40-42mm (1½ inch) diameter nylon brush (4). Sluice the housing with a further 4 to 5 litres of warm soapy water and wipe the inner rim clean (4.1).



5. Insert a new cartridge in the housing and turn to the right to lock.



6. Remove the diverter shield (where supplied) (6) and slowly fill the cartridge with approximately 1.5 litres of clean water ensuring that there are no air bubbles. Add the ALLSEAL liquid (6.1), allowing it to drain into the cartridge. Wipe away any ALLSEAL residue (6.2) and refit the diverter (if supplied) (6.4)).

Recommended Cleaning Procedure:

The first thing to remember is that NOTHING must be poured into the urinal cartridge. This will cause the ALLSEAL liquid to degrade or disperse. Pouring a quantity of water into the cartridge may seem innocuous, but this can cause the ALLSEAL liquid to be washed down the drain.

1. Remove any loose debris that may be present on the surface of the urinal bowl.



2. Remove the diverter (if fitted) and wipe it and the top surface of the cartridge.



3. Spray a 'non-degreasing' cleaning fluid (preferably pH neutral) onto the urinal surface and wipe over the entire internal and external surface of the urinal. Refit the diverter if one was present.

A popular product choice of Gentworks customers is Gentworks Bio-Blue. This is pH neutral when diluted 10:1.



4. NEVER dump cleaning solutions or other liquid agents into the urinal bowl whilst a cartridge is in place.

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FAQs – Your questions answered by Gentworks:

What is the difference between the cartridges for the Armitage Shanks Aridian and Falcon Waterfree bowls?

There is no difference. In fact, the cartridges supplied for Aridian bowls are usually branded Falcon Waterfree Technologies.

How long do the cartridges last?

Armitage Shanks says that the cartridge will need changing after 7,000 uses. In our experience, we have had a few reports from customers with very busy washrooms (e.g. schools) saying they needed changing every month, which makes them potentially expensive solution for such facilities. Mostly, the feedback we receive is that they last for around 3 months. Of course, in a low usage area like a home, then they could easily last for a year or more, making them an ideal solution.

How can I tell when a cartridge needs changing?

The cartridge will gradually become full of debris, including hair and urine crystals. When it is completely full, you will either see urine pooling in the bowl or the blue sealant will show. The cartridge should be changed immediately in either of these cases. Before the cartridge becomes completely full, there is a noticeable reduction in the speed of drainage.

Can I re-use the cartridges?

Yes, in theory, but we wouldn't recommend it. The cartridge will need to be cleaned out manually (not a pleasant task) and then soaked in a bactericide for several hours. A new sealant sachet will need to be purchased before reinstalling the cartridge. Over the years, Gentworks has supplied thousands of cartridges to hundreds of users and we've only come across one user who has taken the trouble to go through a recycling process!

Why does my washroom still smell even though I only recently replaced the FALCON cartridge?

The first models of Aridian urinals were prone to odour problems but a few years ago the seal between the trap and the bowl ceramics was greatly improved. The current models should hardly smell at all! If smells are truly emanating from the trap (not from somewhere else in the washroom) then the most likely reason is that the sealant has been degraded. This is often caused by someone over using a cleaning product that contains a degreaser, as many do. Pouring a quantity of water down the bowl can also flush the sealant away. If you believe the cartridge isn't full of debris, then you could just pour in some more sealant, available in sachets.

Tracing the source of an odour can be difficult, but is usually attributable to down to poor cleaning & maintenance rather than a fault of the Waterless Urinal System. The key reason that most urinals are not smelly is that the cleaners are using appropriate cleaning chemicals and doing their job properly.

The most common causes of odour are:

- poor cleaning particularly where urine splashes have not been effectively cleaned. The tell tale signs are brown staining underneath the urinal bowl, especially around traps or the underside of the urinals or from floor and walls around the urinals. This can be resolved using a microbiological cleaning fluid such as Gentworks Bio-Blue and by making sure that cleaners have adequate time, training and diligence to do a good job.
- smell can be a legacy of past problems where flushed urinals have backed up and overflowed or because of split pipes or dripping pipe connections. These situations cause urine to soak into panels, walls and service duct areas and the foul smells are therefore likely to be embedded in the fabric of the washroom.

When urine is passed it is a sterile liquid, but when it is allowed to go stale bacteria will develop and cause the ammonia smell. This process usually takes around 2 and 3 months to develop, but could be faster.

Other considerations.

- **Heavily Used Washrooms:** If you have high traffic in a washroom, for example during a 15 minute coffee break at a conference, then don't be surprised if the washroom smells for a while afterwards. This may not be a problem with the urinals. Of course fine particles of urine are sprayed into the air and the only real solution to this is to change the air in the washroom, so ensure it is well ventilated. Failing this, then an air freshener might help to disguise the odour.
- **Hot washrooms:** If the washroom is very warm, odour causing bacteria multiply more quickly.

What should I clean the bowl with?

Armitage Shanks say a "non-degreaser liquid" should be used and this would be ideal. However, many cleaning products necessarily contain some form of degreaser. Strong acids, including products containing phosphoric acid, should certainly not be used. As no water is being used there is no limescale to remove so no aggressive chemicals are required. A neutral (pH=7) product should work well, even if it contains soap, providing that as little as possible is allowed to drain into the trap. Just spray onto the surface and wipe off the excess. A popular product choice of Gentworks customers for this purpose is Gentworks Bio-Blue, which is neutral when diluted 10:1.

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