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## Installation Instructions for Bike Fixtation

### Bottle Fill and Bike Wash Stations – Manual Rev. B



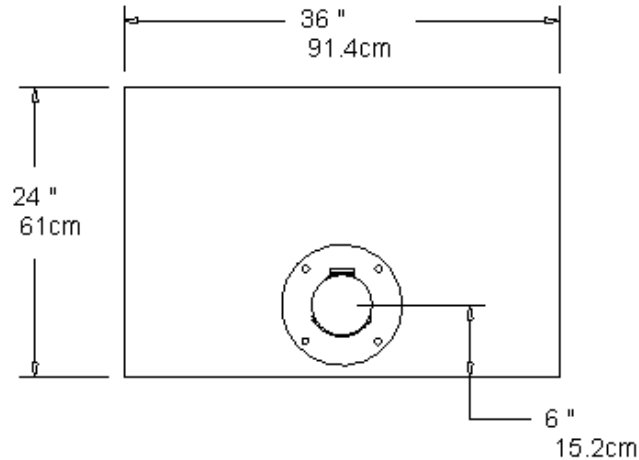
## 1. Site Layout for Bottle Fill and Bike Wash Stations

### Minimum Space Requirements

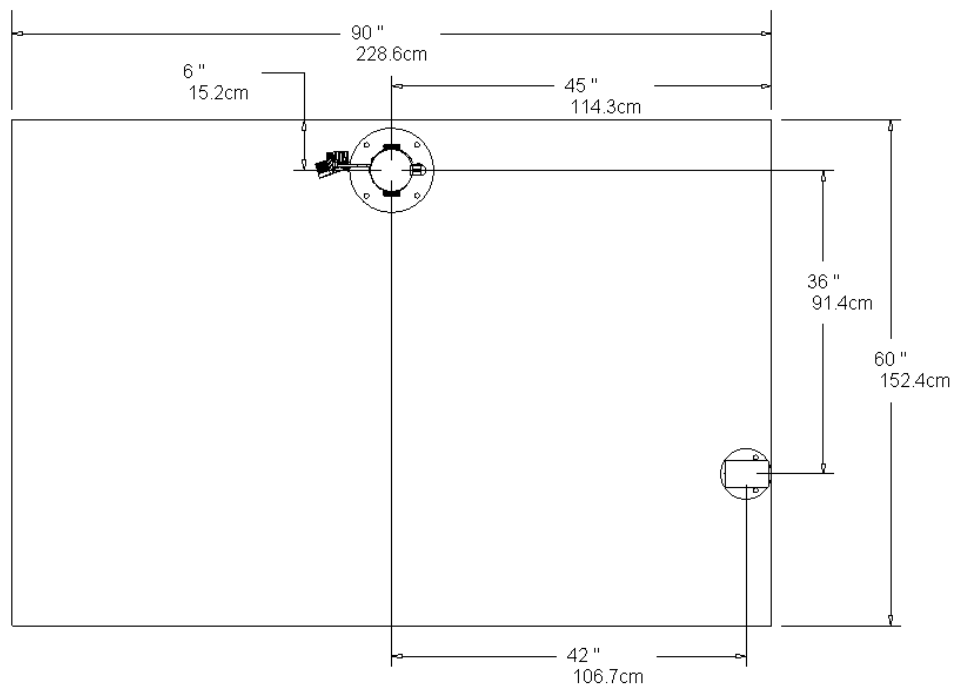
The minimum space requirements for the Bike Wash Station and Wash and Fill Station are dependent on whether there is a Wheel Chock, Public Work Stand, or Deluxe Public Work Stand installed. Match the equipment you will be installing with the figures below to determine minimum space requirement dimensions.

### Setback Minimum and Site Layouts:

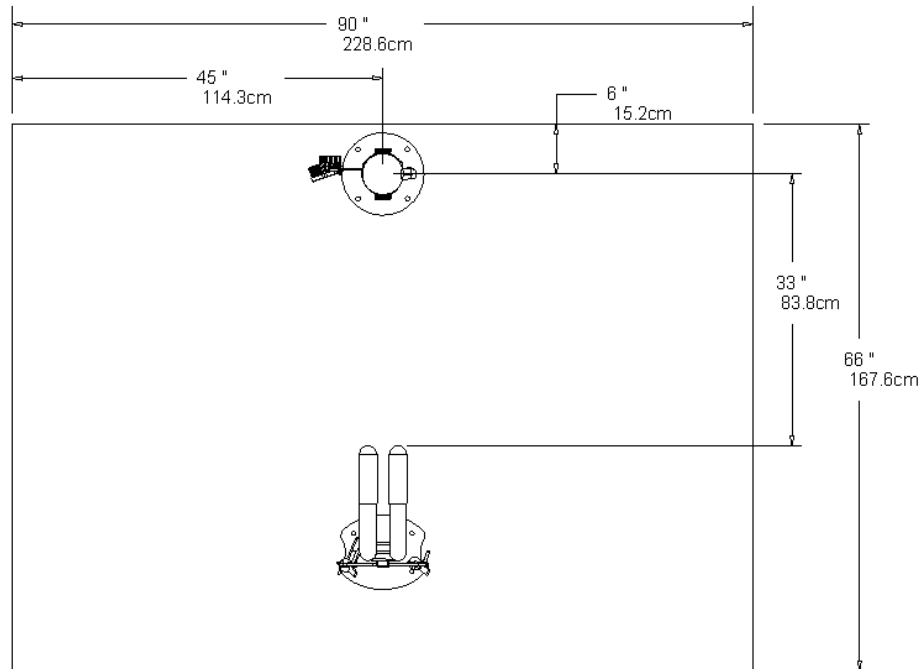
It is recommended that all equipment is spaced a minimum of 60" from an adjoining street or cycle path. The Bike Fixtation Bottle Fill Station can be installed by itself. See figure 1. The minimum space requirements for the Bike Fixtation Bike Wash Station is dependent on what bike holding fixture is used with it. See figures 2 through 9.



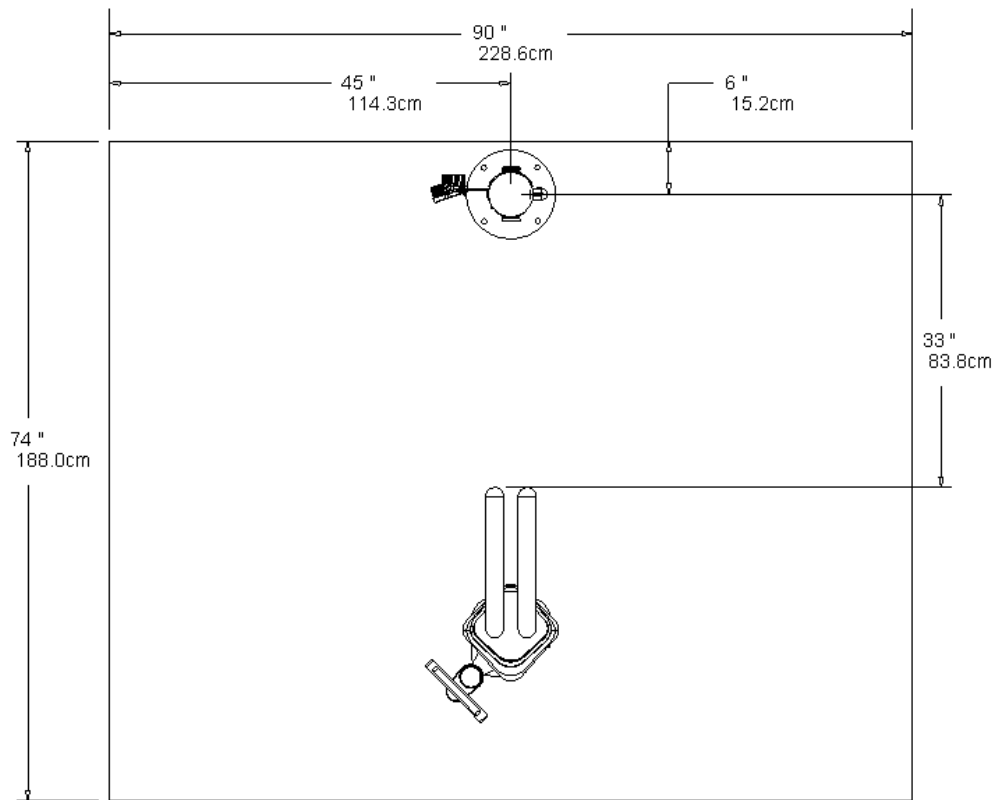
**Figure 1: Minimum space requirements for Bottle Fill Station**



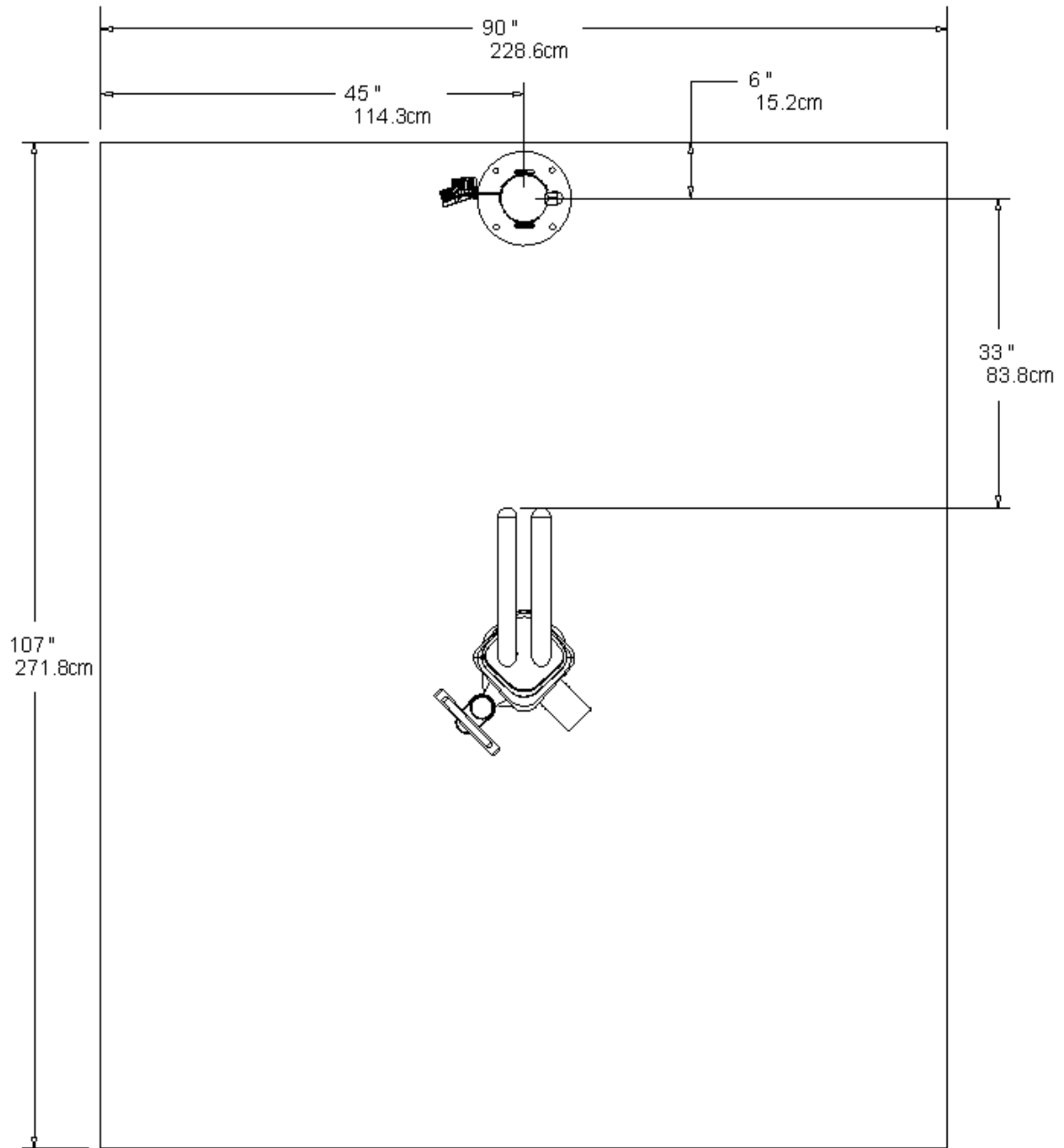
**Figure 2: Minimum space requirements for Bike Wash Station (with Wheel Chock)**



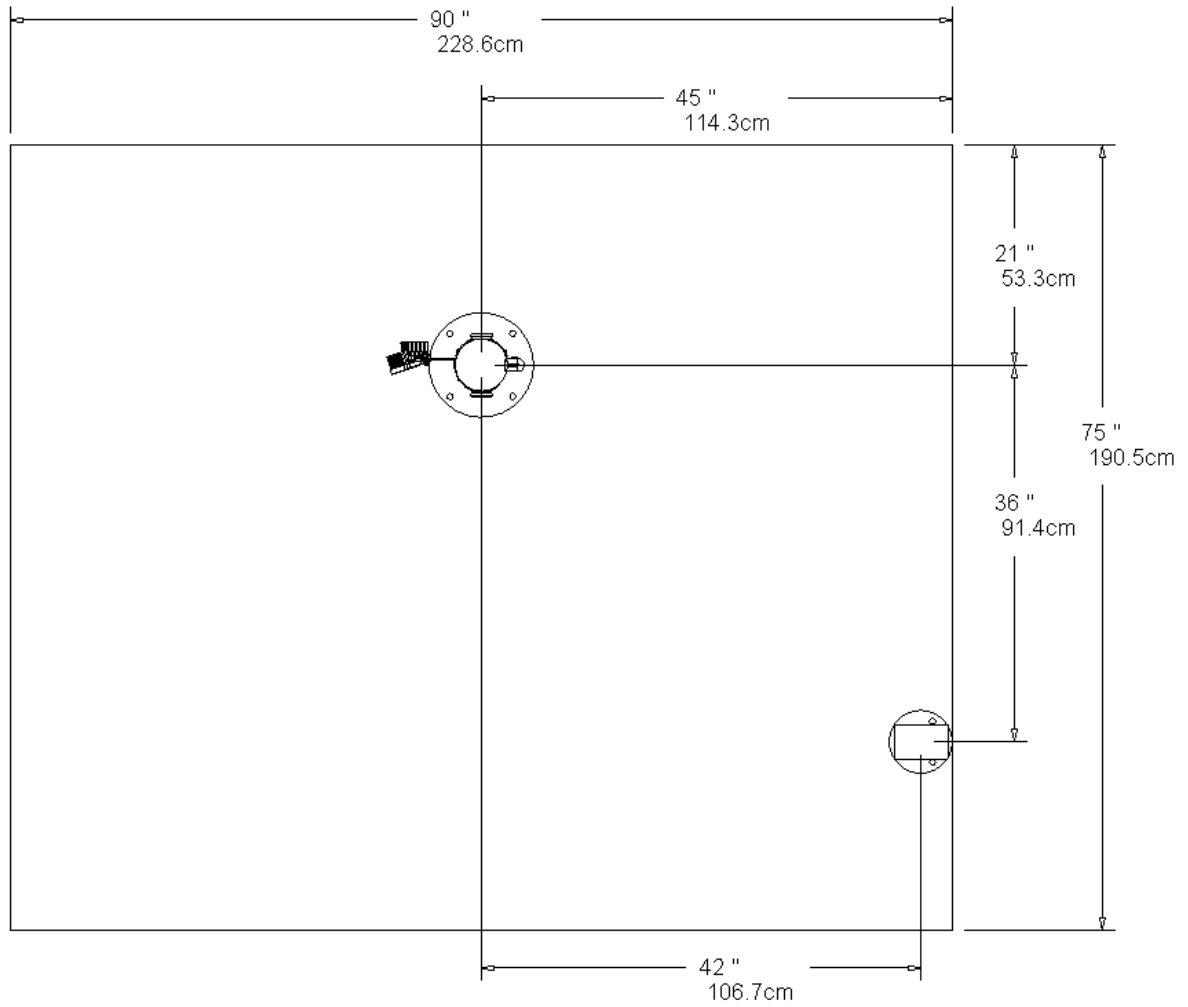
**Figure 3: Minimum space requirements for Bike Wash Station (with Public Work Stand)**



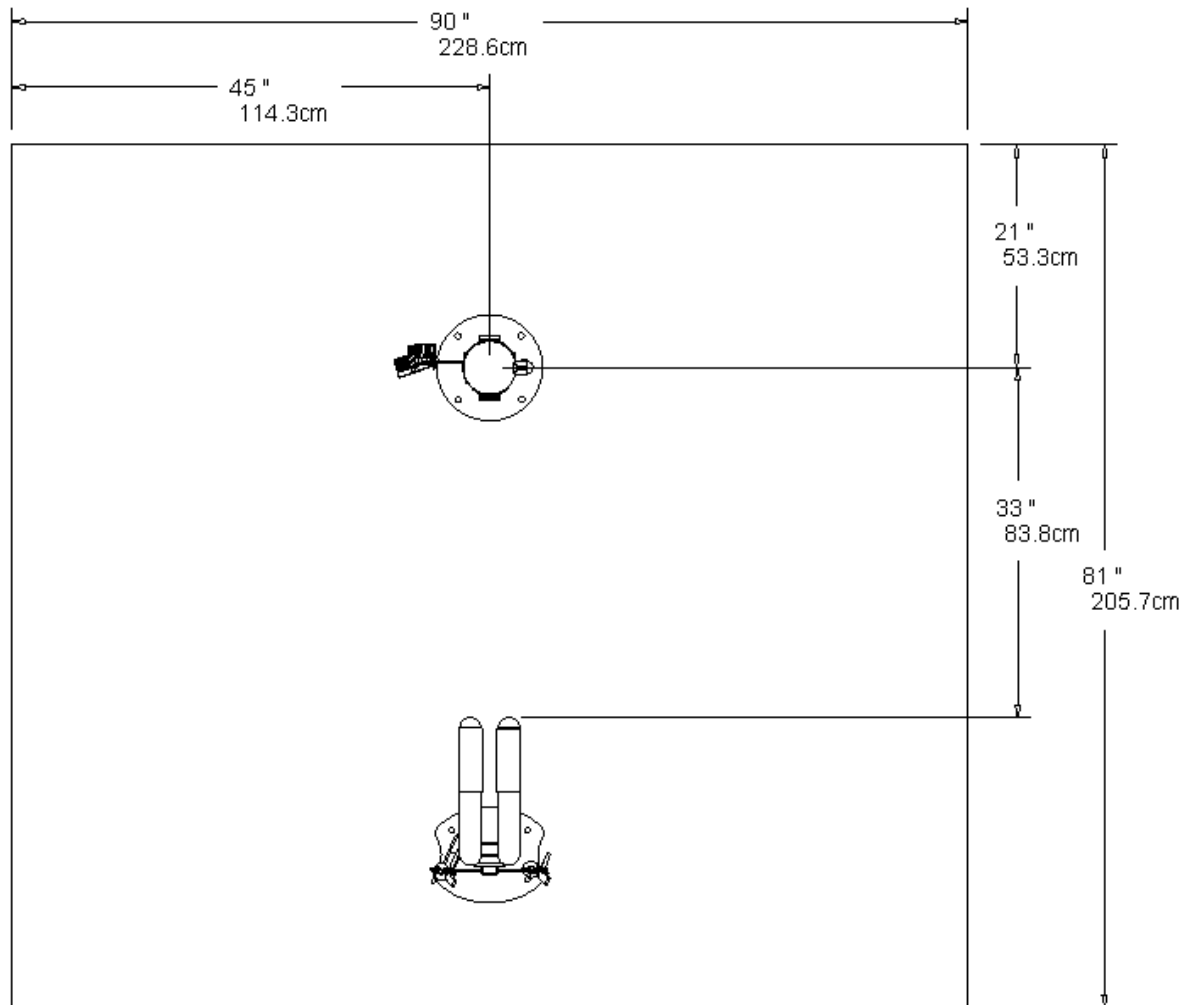
**Figure 4: Minimum space requirements for Bike Wash Station (with Deluxe Public Work Stand, no Wheel Chock)**



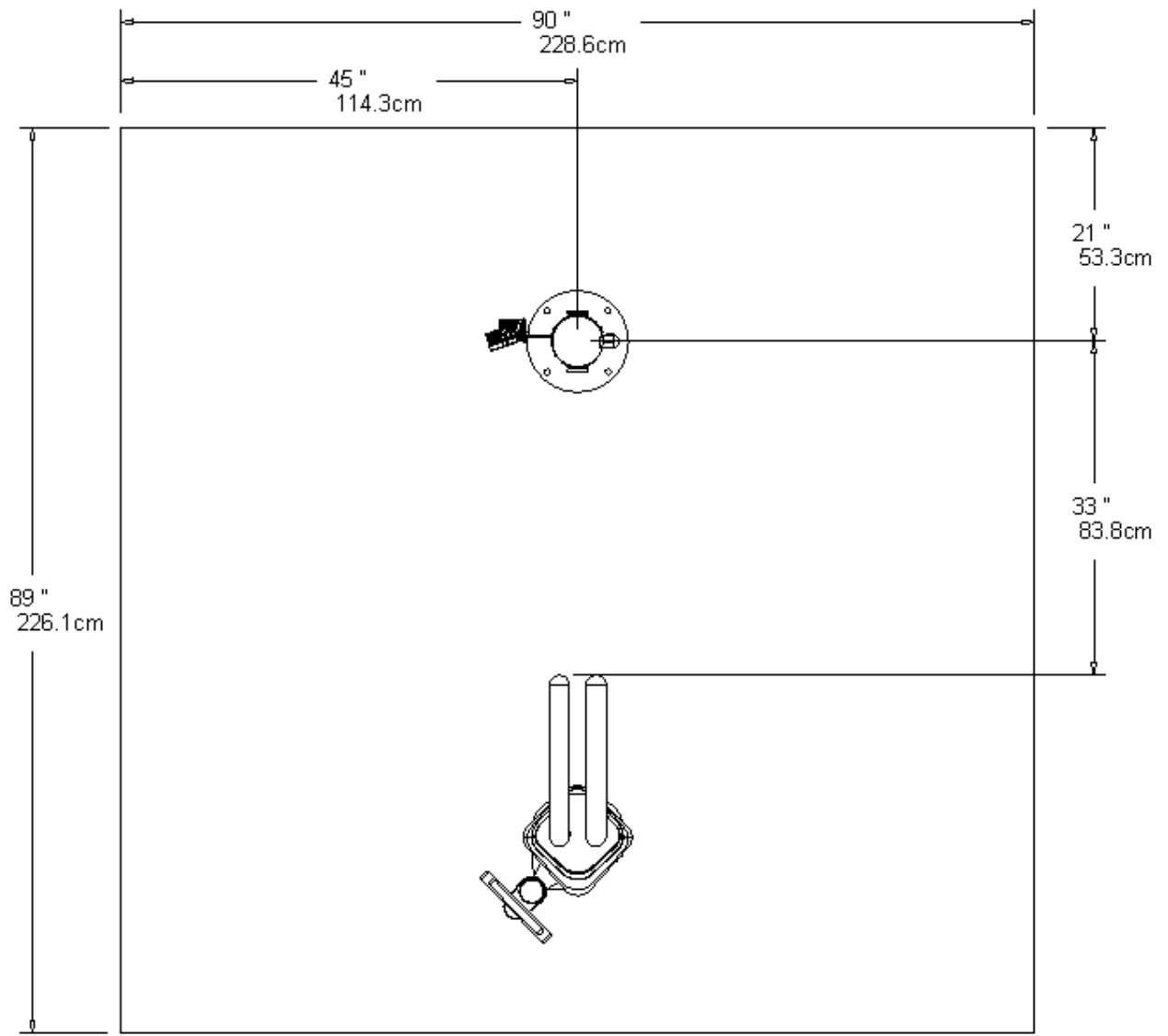
**Figure 5: Minimum space requirements for Bike Wash Station (with Deluxe Public Work Stand, with Wheel Chock)**



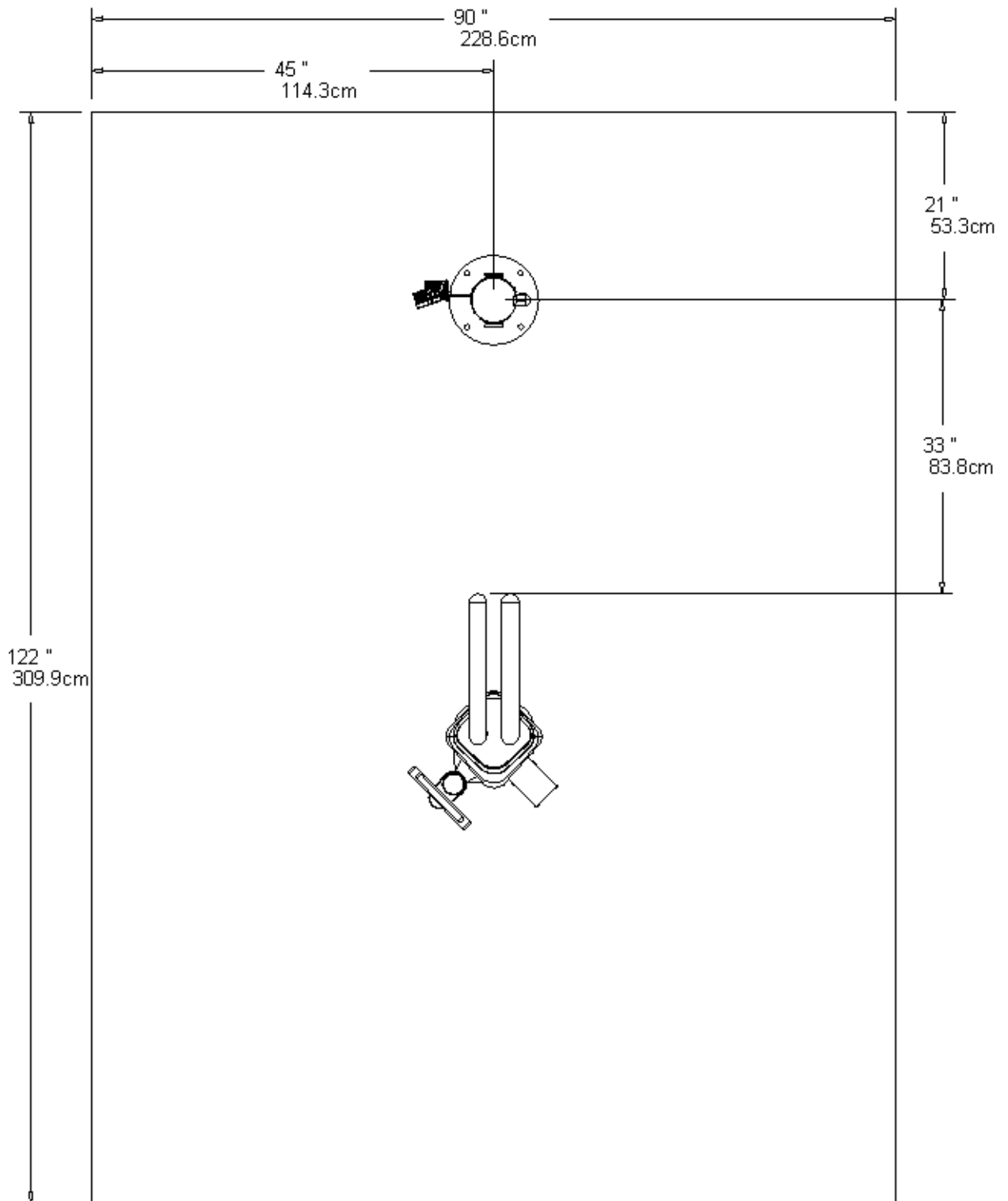
**Figure 6: Minimum space requirements for Wash and Fill Station (with Wheel Chock)**



**Figure 7: Minimum space requirements for Wash and Fill Station (with Public Work Stand)**



**Figure 8: Minimum space requirements for Wash and Fill Station (with Deluxe Public Work Stand)**



**Figure 9: Minimum space requirements for Wash and Fill Station (with Deluxe Public Work Stand and Wheel Chock)**



## Concrete Pad Sizes

If you are pouring a new concrete pad, these are two recommended sizes. Option 1 is 36" x 36" x 4", option 2 is a 16" diameter cylinder that is 36" deep. Ensure there are provisions for the plumbing rough in.

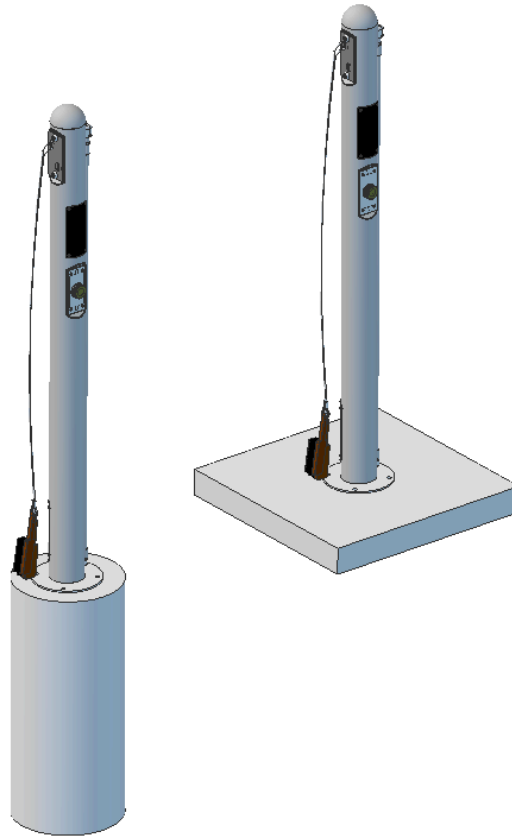


Figure 10: Recommended minimum new pad configurations

## Setbacks

It is recommended that all equipment is spaced a minimum of 60" from an adjoining street or cycle path.

## Bike Wash and Bottle Fill Station Site Considerations

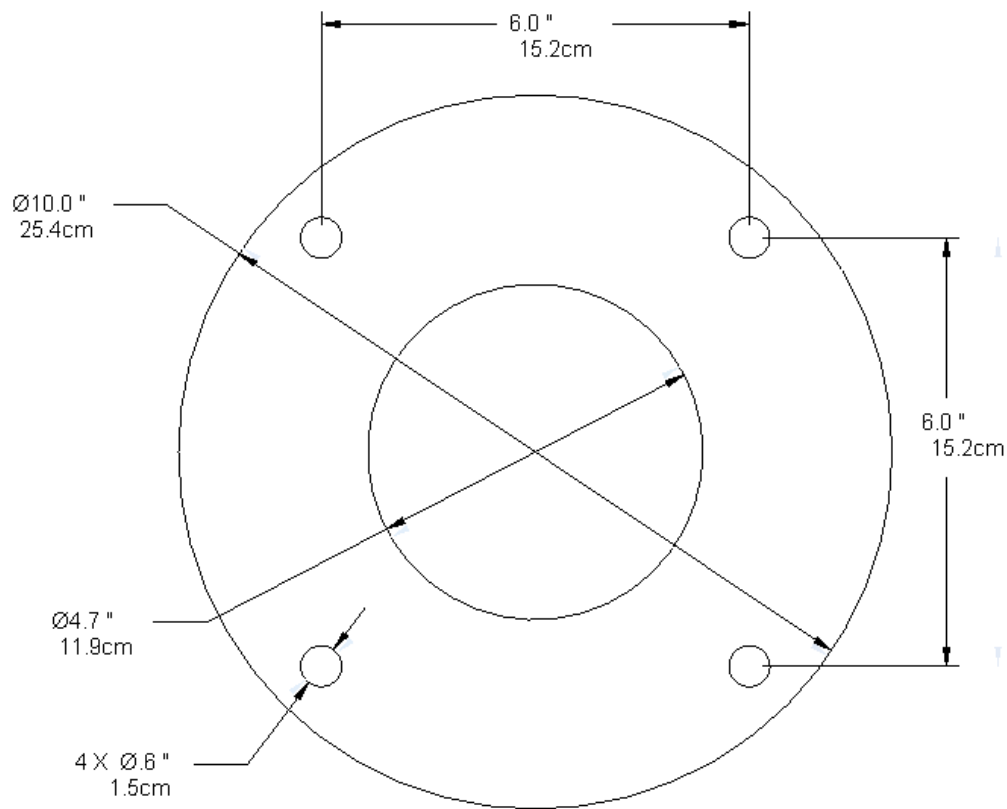
The Bike Fixtation Bike Wash Station can be installed indoors or outdoors. The Bike Fixtation Bike Wash Station is compliant with the EPA's Clean Water Act and does not require any post water treatment of wastewater. For indoor locations, a floor drain in the immediate area is recommended. Site should be suitable for water overspray. For outdoor locations, a subsurface drain (also known as a French drain) may be used if a municipal drain is not available on a permeable surface. Check local codes for drainage requirements.

## Plumbing Rough In

**Inlet requirements:** Bike Fixtation Wash Stations and Bottle Fill Stations for North America come equipped with a 3/8" NPTF inlet fitting connected to 3/8" supply tubing. For other regions, contact [sales@bikefixtation.com](mailto:sales@bikefixtation.com) for the proper connection.

**Drain:** Bike Fixtation Bottle Fill Stations come with an integrated 1-1/4" IPS drain. Bike Fixtation Bike Wash Station does not require integral drain.

Plumbing rough in to come up through the center of the fixture. See Figure 4 indicated rough in through hole in base flange.



**Figure 11: Base flange dimensions.**

## Cold Weather Operation

When water freezes, it expands by approximately 9%. This expansion will damage Bike Fixtation Bike Wash and Bottle Fill stations by rupturing the plumbing lines if used below freezing. To avoid this, we recommend winterizing your installation by blowing the plumbing supply lines out with compressed air and capping the water lines. You do not need to remove the equipment. If you wish to do an outdoor bottle fill in a cold climate, we can accommodate a drain back system that requires the valves to be installed below the frost line. For more information, contact [sales@bikefixtation.com](mailto:sales@bikefixtation.com).

## 2. Installation

### Tools Needed for Installation (Installer Provides)

Tape measure  
½" masonry drill bit drill (hammer drill recommended)  
Hammer  
3/8" drive ratchet and extension  
Marker or pencil  
SAE hex key set  
Level

### Tools for Installation Provided with Equipment



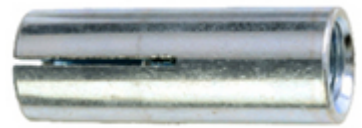
Anchor Set Tool



\*Penta-Plus Bit



\*Penta Security Socket



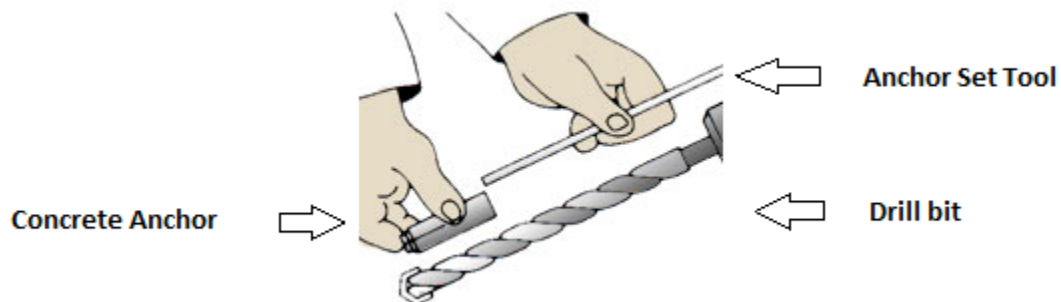
4 Concrete Anchors

2 button head hex bolts  
2 threaded concrete anchor studs  
2 Penta nuts (use with anchor studs)

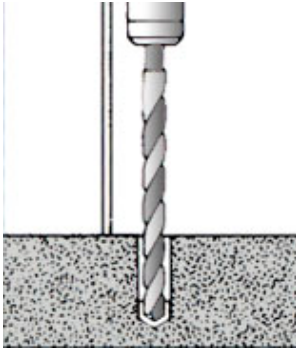
**\*DO NOT THROW AWAY THE PENTA SOCKET OR PENTA-PLUS BIT AFTER COMPLETING THE INSTALLATION. YOU WILL NEED IT TO REMOVE OR MAINTAIN THE EQUIPMENT IF THAT IS NECESSARY.**

## Installation Instructions

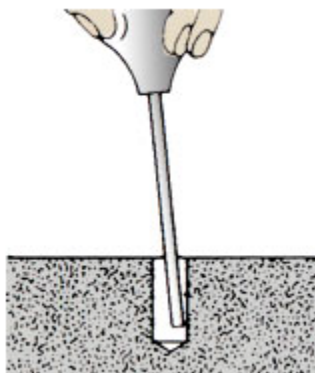
1. Refer to site layout instructions in from this manual.
2. Install shut-off valve on water supply. (Valve not furnished)
3. Place the fixture in the desired location (see site layouts). Use a marker or pencil to outline the holes of the flange onto the base material. We recommend checking the hole locations after each new anchor is placed. Ensure the holes are at least 6" away from any cracks in the base material. Ensure proper clearance of plumbing connections through the center of the fixture.
4. The concrete anchor (a.k.a "drop in anchor") is a female anchor designed for use in solid concrete only and cannot be used in brick or block base material. The anchor size is designated by the inside diameter of the anchor. The Bike Fixtation Bike Wash and Bottle Fill Stations come with 3/8"-16 anchors. The diameter of the hole to be drilled is the same size as the outside diameter of the anchor which is 1/2".
5. When fastening to solid concrete with a drop in anchor, a hole must first be drilled into the concrete. A hammer drill should be used as it will drill the best quality hole. Once the bit is inserted into the hammer drill, the depth of the hole to be drilled can easily be set by using the depth gauge on the drill or by wrapping the bit with tape at the required depth. We recommend a drill depth of 1-5/8" deep so that the anchor just sets down flush with the surface.



6. Before starting to drill the hole, it is important that eye and ear protection are used. Make sure the hammer drill is in the hammer mode and start drilling your hole. Continue drilling until the tape on the bit or the drill gauge meets the base material; this means that the required depth has been reached.



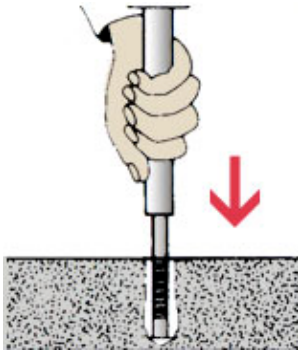
7. Before proceeding with installation, the hole must be cleaned of all concrete dust to ensure proper fastening. Use a wire brush, a vacuum or compressed air to clean out the hole completely.



**Tool to remove debris  
after drilling holes.  
Installer provides.**

8. Insert the drop in anchor with the open side up. Tap lightly to get the anchor flush with the base material.

9. Take the setting tool and insert it into the anchor. Strike the setting tool with the hammer until the lip of the anchor touches the lip of the setting tool. This will ensure the anchor is properly set.



10. Place the fixture over the four anchors. Thread two anchor studs into anchors on opposite sides of flange. Thread two Penta nuts onto studs. Do not tighten. Thread two hex nuts into other anchors. Do not tighten.
11. Level base flange. Place washers underneath flange as needed. Tighten Penta Nuts with Penta Socket. Tighten hex nuts with hex key.
12. Remove access panel by removing four penta-plus screws using supplied penta-plus bit.
13. Connect water supply and Bottle Fill Station/Wash and Fill Station drain. Water connection and drain must comply with local codes. Connecting lines should be thoroughly flushed to remove all foreign matter before being connected to fixture.
14. Turn on water supply and check all connections for leaks.

**CAUTION: This fountain is rated for inlet water pressure of 20-80 PSI. A pressure reducing regulator should be used if the inlet water supply exceeds 80 PSI. Any damage caused by reason of connecting this product to supply line pressures lower than 20 PSI or higher than 80 PSI is not covered by warranty.**

15. For Bottle Fill and Wash and Fill Stations, test water fill pressure to ensure smooth laminar flow. If supply pressure is too high, remove push button valve plate using the included penta-plus bit. Adjust ball valve until desired flow is achieved. See section 3 for details.
16. Contractor to supply waste trap and service stop valve in accordance with local code.
17. Reinstall access panel using the included penta-plus bit.

18. For Bike Wash Stations, remove brush plates, place cable stops through the slots and reattach plates using included penta-plus screws.
19. Congrats, you've completed installation!

### 3. Bottle Fill Adjustment

1. You will want to adjust the bottle fill flow for your water system. Gain access to the inlet ball valve at the bottom access panel by removing the four screws using the penta-plus security bit.



**Figure 12: Bottle Fill Station flow adjustment by using the adjustment ball valve.**

2. Adjust ball valve so that the time it takes to fill a 20oz bottle is approximately 8 seconds.  
Reinstall access panel.



## 4. Maintenance



**Figure 13: Inlet strainer cap removed for cleaning.**

1. There is no cleaning or preventative maintenance schedule required for proper operation of the Bottle Fill Station or the Bike Wash Station. However, there is an inlet strainer that will catch larger particulates that are in the supply water. The frequency of servicing strainer is dependent on the supply water. Water pressure and flow will decrease as strainer becomes clogged. Strainer should be cleaned or replaced if insufficient water flow is observed. The strainer is accessed by removing the side access panel and unthreading the strainer cap to expose the mesh strainer. Replacement strainers are available from Bike Fixtation.



**Figure 14: Bottle fill outlet aerator being replaced with aerator key.**

2. On the Bottle Fill and Wash and Fill Stations, there is an outlet aerator that after a long period of time may get contaminated by mineral deposits in the water stream. The frequency of this happening is dependent on the local water supply. If an irregular flow is noticed, the aerator can be easily replaced. This is available from Bike Fixtation and includes an aerator key for removal and installation.