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Neoperl 13081xx

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Model: 13081xx

1. INTRODUCTION

The Neoperl M16.5 Cache Laminar Faucet Aerator is an ultra-low flow insert designed to provide a clear, splash-free laminar stream. This hidden aerator is virtually invisible once installed and is ideal for applications requiring water conservation, such as with point-of-use water heaters. It features pressure compensation for consistent flow and integrated anti-liming and anti-clogging elements for reduced maintenance.

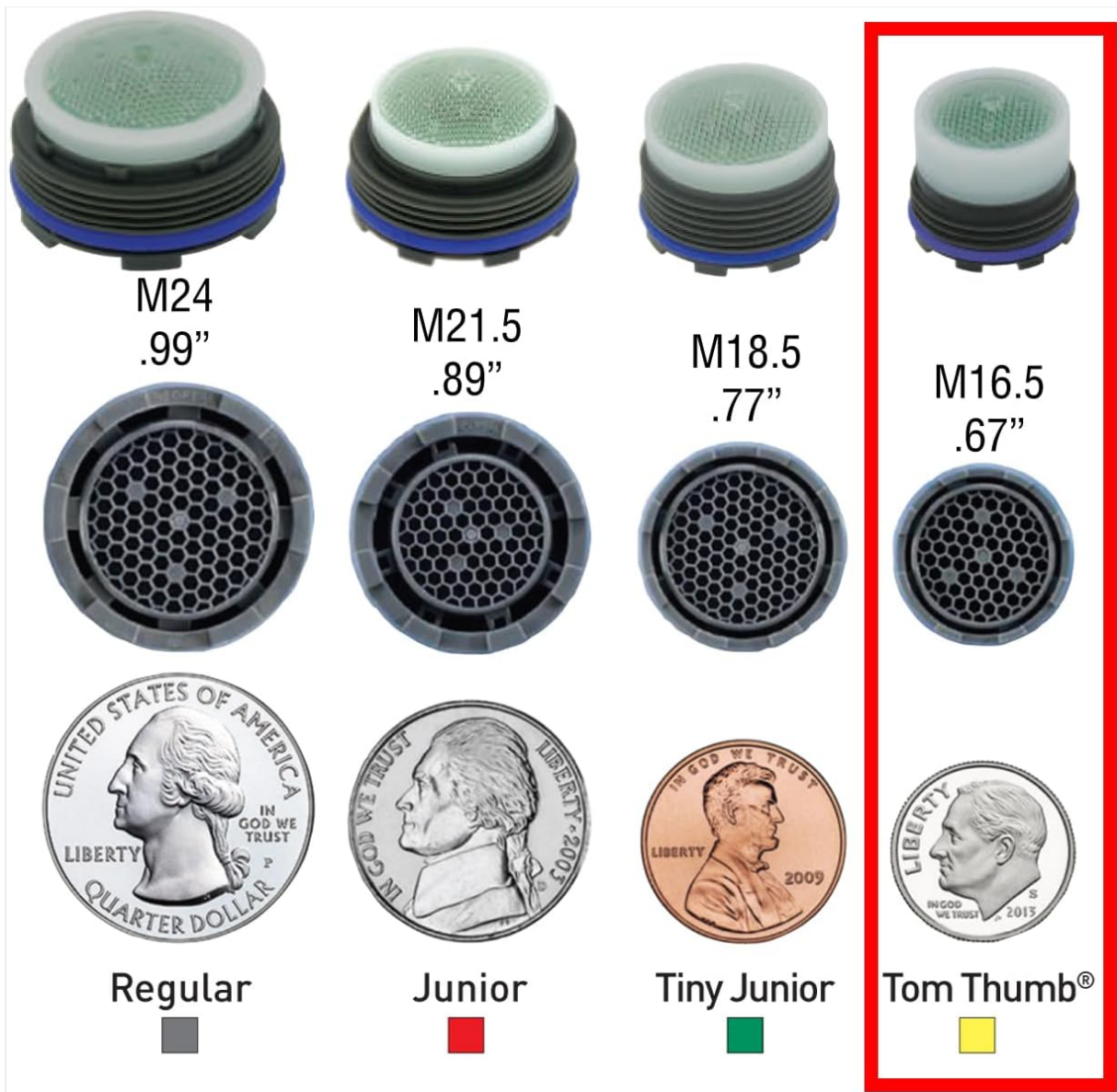


Image 1: The Neoperl M16.5 Cache Laminar Faucet Aerator. This compact insert features a lime green dome and a blue O-ring, designed for discreet installation within a faucet spout.

2. PRODUCT IDENTIFICATION

This manual specifically covers the **M16.5** size Cache aerator, often referred to as 'Tom Thumb'. It has a male 16.5mm thread size and is characterized by its lime green color and blue O-ring. Ensure your faucet is compatible with an M16.5 aerator before installation.




Caché® installation:

1. Use key to remove hidden aerator from spout.
2. Clean threads inside spout.
3. Use key to install the new hidden aerator.
4. Turn on faucet. If leak occurs, tighten more firmly.

Tip: Save your key for future use.

Image 2: Comparison of various Neoperl Cache aerator sizes, including M24, M21.5, M18.5, and M16.5 (Tom Thumb), shown alongside US coins for scale. The M16.5 aerator is highlighted, indicating its smaller dimension.

3. INSTALLATION INSTRUCTIONS

The Neoperl M16.5 Cache aerator is designed for easy installation directly into the faucet spout using the included service key. Follow these steps for proper installation:

1. **Remove Existing Aerator:** If a hidden aerator is already present, use the provided service key to carefully remove it from the faucet spout.
2. **Clean Faucet Threads:** Thoroughly clean the threads inside the faucet spout to ensure a secure and leak-free seal for the new aerator. Remove any debris or mineral buildup.
3. **Install New Aerator:** Insert the new Neoperl M16.5 Cache aerator into the faucet spout. Use the service key to gently tighten the aerator until it is snug.
4. **Check for Leaks:** Turn on the faucet and observe for any leaks around the aerator. If a leak occurs, turn off the water and tighten the aerator more firmly with the key. Do not overtighten.

Important: Retain the service key for future removal or replacement of the aerator.

4. OPERATION

Once installed, the Neoperl M16.5 Cache aerator provides a consistent 0.5 Gallons Per Minute (GPM) flow rate. It produces a non-aerated, clear laminar stream, which is splash-free. The pressure-compensating design ensures a constant flow rate across a wide range of water pressures, typically from 20 to 80 psi.

5. MAINTENANCE

The Neoperl M16.5 Cache aerator is designed for low maintenance. It features an integrated anti-liming honeycomb screen and an anti-clogging dome screen to filter sediment and particles, reducing the likelihood of buildup. If flow diminishes or the stream becomes irregular, the aerator may require cleaning:

1. Turn off the water supply to the faucet.
2. Use the service key to remove the aerator from the spout.
3. Rinse the aerator under running water to dislodge any trapped sediment or debris. A soft brush can be used for stubborn deposits.
4. For lime buildup, soak the aerator in a solution of white vinegar for several hours, then rinse thoroughly.
5. Reinstall the aerator following the installation instructions.

6. TROUBLESHOOTING

- **Leakage from Faucet Spout:** If water leaks around the aerator after installation, ensure the aerator is fully seated and tightened firmly with the service key. Avoid overtightening. Check if the O-ring is properly positioned and not damaged.
- **Reduced Water Flow:** This typically indicates a blockage. Remove the aerator and inspect the screens for sediment or mineral buildup. Clean as described in the Maintenance section.
- **Irregular or Splashing Stream:** This can also be caused by partial blockages in the aerator screens. Clean the aerator thoroughly. Ensure the aerator is correctly installed and not damaged.

7. SPECIFICATIONS

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| Brand | Neoperl |
| Model Number | 13081xx |
| Material | Acetal |
| Thread Size | Male 16.5 |
| Maximum Flow Rate | 0.5 Gallons Per Minute (GPM) |
| Specification Met | ANSI 61, ASME A112.18.1 |
| Item Weight | 1.92 ounces |
| Product Dimensions | 0.75 x 0.75 x 0.75 inches |
| Included Components | Aerator, Insert, Key, O-Ring |

8. WARRANTY AND SUPPORT

Specific warranty information for the Neoperl M16.5 Cache Laminar Faucet Aerator is not provided in the product details. For any product support, warranty inquiries, or technical assistance, please contact Neoperl directly through their official customer service channels.