look for WaterSense Meets EPA Criteria

CARE+GUARD®

WITH BUILT-IN agion® TECHNOLOGY

Single stream and needle spray laminar faucet outlets.

NEOPERL®

flow, stop and go®

Every time a faucet is turned off a few drops of water are trapped inside the aerator (or laminar device) where they stagnate, warm up and eventually evaporate. This leaves a film of scale, a source of food for biofilm.

What factors can enhance colonization of the faucet outlet?

Water stagnation

Water droplets become trapped inside the faucet aerator. Traditional laminar devices constructed with a thick pile of wire mesh screens trap water droplets even more (Fig. 1).

Warm water

Warm room air (65-80°F) keeps trapped water droplets warm.

Food

Sediment and scale build-up on traditional wire mesh screens provide the foundation and food supply for biofilm (Fig. 2).

Is removing all spout-end devices a better alternative?

No spout-end device means no water stagnation inside the faucet spout-end (water drains out) but...

Fig. 1

- the water flow is unrestricted (no flow rate control) and can reach over 5 gpm: water and energy are wasted.
- even if a separate flow regulator is installed, without a flow straightener at the end of the spout, the stream splashes when washing hands or equipment.
- the inside of the spout still retains water but is now open to direct contamination by splashes when fluids are poured into the lavatory or sink.

Laminar devices: A better choice for hospital environments

To produce an aerated stream with up to 50% air, white and soft to the touch, air and water are mixed in the faucet aerator's mixing chamber (Fig. 3).

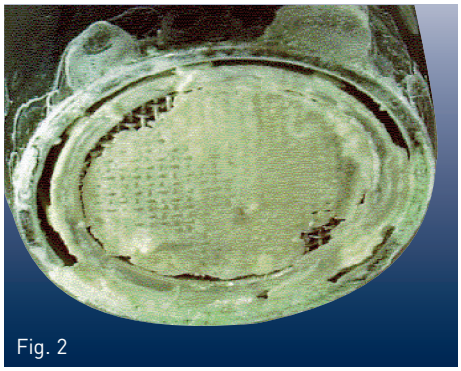

Fig. 2

Laminar devices do not draw air into the water stream and produce a non-aerated crystal clear stream of 100% water (Fig. 4).

Fig. 3

Fig. 4

Fig. 5

What about low flow sprays?

While well-adapted to public bathrooms for hand-washing (where they save water and energy), faucet sprays are not recommended for use in patient rooms or nurse stations because, among other things, they make filling a glass or a vessel a lengthy process. They are, however, ideal for public-use bathrooms anywhere within a healthcare facility to further increase water savings.

Spray devices do not draw air into the water stream and each "needle" of the spray can be considered a laminar (non-aerated) stream (Fig. 5).

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Careguard® products are available to connect to faucets with junior threads using an adapter with the exception of low flow sprays (0.35 & 0.5 gpm), which are available directly in junior size. Junior aerator threads are also known as 13/16"-27 (junior female) and 13/16"-24 (junior female "Chicago").

Laminar features

- A splash free crystal clear laminar (non-aerated) stream.
- Unique screenless 100% plastic Cascade® construction to prevent lime build up (no wire mesh screens).

Careguard® features

- Virtually unbreakable single piece insert to ensure a longer useable life.
- Easy to remove to clean or replace.

PCA® Spray additional features

- Non-splashing, non-aerated laminar sprays fashioned in a spray pattern.
- Recommended for use in public lavatories in commercial and healthcare facilities for even more water savings.

Careguard® certifications for use with drinking water in plumbing products

ANSI/NSF 61 ■ ANSI/ASME A112.18.1M/CSA B125

NEOPERL's Careguard® laminar faucet attachments incorporate Agion®'s antimicrobial technology, which is FDA listed and meets all applicable EPA standards. Careguard® delivers built-in product protection to help reduce the growth of odor causing bacteria, mold and mildew within the faucet attachment. Careguard® is not designed to protect the consumer against bacteria, viruses, germs, or other disease organisms. This product does not provide sanitization, disinfection, or elimination of bacteria in the water delivered by the spout. Careguard® is not intended to be an alternative to water treatment systems or established procedures for infection control.

For more information on Careguard®, please also visit www.careguard.us

For more information, please contact us to request the detailed specification sheet contained in the Engineering Source Book

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