

# Design for sustainability (DfS) scorecard



With our DfS scorecard, we drive sustainability improvement during the product development process through multiple product sustainability criteria divided into seven impact areas.

## Milli-Q® IX 7003/05 Purification Kit\* (This purification kit is used with a Milli-Q® IX 7003 or IX 7005 Pure Water Purification System)



Ultimate pure water solution - less electricity, more compact and mercury-free UV lamps

### Impact areas

### Results



#### MATERIALS

29% system size reduction with 4% weight decrease thanks to more compact design  
80% reduction of plastic use in purification cartridges through system lifetime thanks to extended lifespan and more compact design



#### SUPPLIERS & MANUFACTURING

No change compared to baseline product in consideration of our DfS criteria



#### PACKAGING

For purification cartridges' packaging, 42% weight and 45% volume reduction compared to initial design due to new protective insert design and twin box concept. System and purification cartridges' corrugated boxes with sustainable forestry certification. Protective inserts made of 100% bio-based polyethylene (PE) foam from sugar cane waste for the system and made of PE foam with a minimum of 50% recycled content for the E-POD® water remote dispensers.



#### ENERGY & EMISSIONS

38 to 41% reduction of system electricity consumption thanks to optimization of components and processes as well as an embedded improved "Lab Close" mode



#### WATER

11 to 13% water reduction during system use thanks to new periodic EDI rinsing  
Reduction of water consumption during system quality control thanks to the implementation of a new impermeability test by air instead of by water



#### USABILITY & INNOVATION

Innovative bactericidal lamp with mercury-free UVC LED technology  
Easy and quick cartridge replacement thanks to unique patented twist and lock technology



#### CIRCULAR ECONOMY

The system is designed to be easily maintainable and have a lower replacement frequency of purification consumables. Implementation of a drain cap enables to purge about 44% of the water from the purification cartridges, representing about 25% of the cartridges' total weight prior to disposal.

Baseline product: Elix® Advantage 3 and 5

\* The characteristics presented in this DfS scorecard visual are the ones of the entire platform including the water purification system and the purification cartridges