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® IQ 7005 Ultrapure and Pure Water Purification System

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

Impact areas	Results
MATERIALS	26% system size reduction but 8% weight increase due to more efficient but heavier power supply
SUPPLIERS & MANUFACTURING	No change compared to baseline product in consideration of our DfS criteria
PACKAGING	For purification cartridges' packaging, 34% weight and 30% volume reduction compared to initial design due to new protective insert design. System's corrugated box 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 Q-POD® and E-POD® water remote dispensers.
ENERGY & EMISSIONS	26% reduction of system electricity consumption thanks to optimization of components and processes as well as an embedded improved "Lab Close" mode
WATER	11% 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 UV oxidation lamps with mercury-free xenon excimer technology, and bactericidal lamps 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 50% of the water from the purification cartridges, representing about 25% of the cartridges' total weight prior to disposal.

Baseline product: ZRXQ005T0 – Milli-Q® Integral 5