Pumping up circularity

Design for the reusability of endovascular inflators

POMPA. A new endovascular inflator designed to fit into a circular model that focuses on the reuse of the most valuable components within healthcare institutions while disposing of the

POMPA redesigns the architecture of inflators to achieve complete dis- or reassembly of the product in less than a minute without compromising its functions and performance. Together with the adoption of materials suitable for decontamination with steam sterilisation, this allows for the reuse of its key components for about 1000 patient procedures. And only 9 uses are required to have lower environmental and economic impact than current single-use inflators.



Pablo Yániz González Pumping up circularity: Design for the reusability of endovascular inflators May 27th, 2025 **Integrated Product Design**

Committee

Company

Prof.dr.ir. Jan-Carel Diehl (chair) Dr.ir. Bas Flipsen (mentor) Dr. Mark Burgmans (client mentor) LUMC



