



PET IQ

Anthropomorphic PET Phantom

PET IQ is a realistic anthropomorphic PMMA vessel, which simulates the trunk of the human body (fig. 1), and complies with standards **NEMA-NU2 (2007)** and **IEC 61675-1 (2014)** for quality control of image quality in PET.

On one face of the phantom is a circular plate into which six hollow PMMA spheres can be screwed. The inner active diameters of the spheres are 10mm, 13mm, 17mm, 22mm, 28mm and 37mm (fig. 2); and the wall thickness is 1mm. The spheres are filled with water for cold lesion imaging and with ¹⁸F_{FDG} for hot lesion imaging.

A 50mm diameter cylindrical lung tissue mimicking insert is attached to the centre of the circular plate in order to provide realistic attenuation.





PET IQ

PET

Details



fig. 1 PET trunk



fig. 2 Spheres insert

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Details

- A PMMA holder is provided for convenience when filling the spheres with solution.



fig. 3 Sphere holder

- PET IQ includes covers for the central compartment with different inserts.



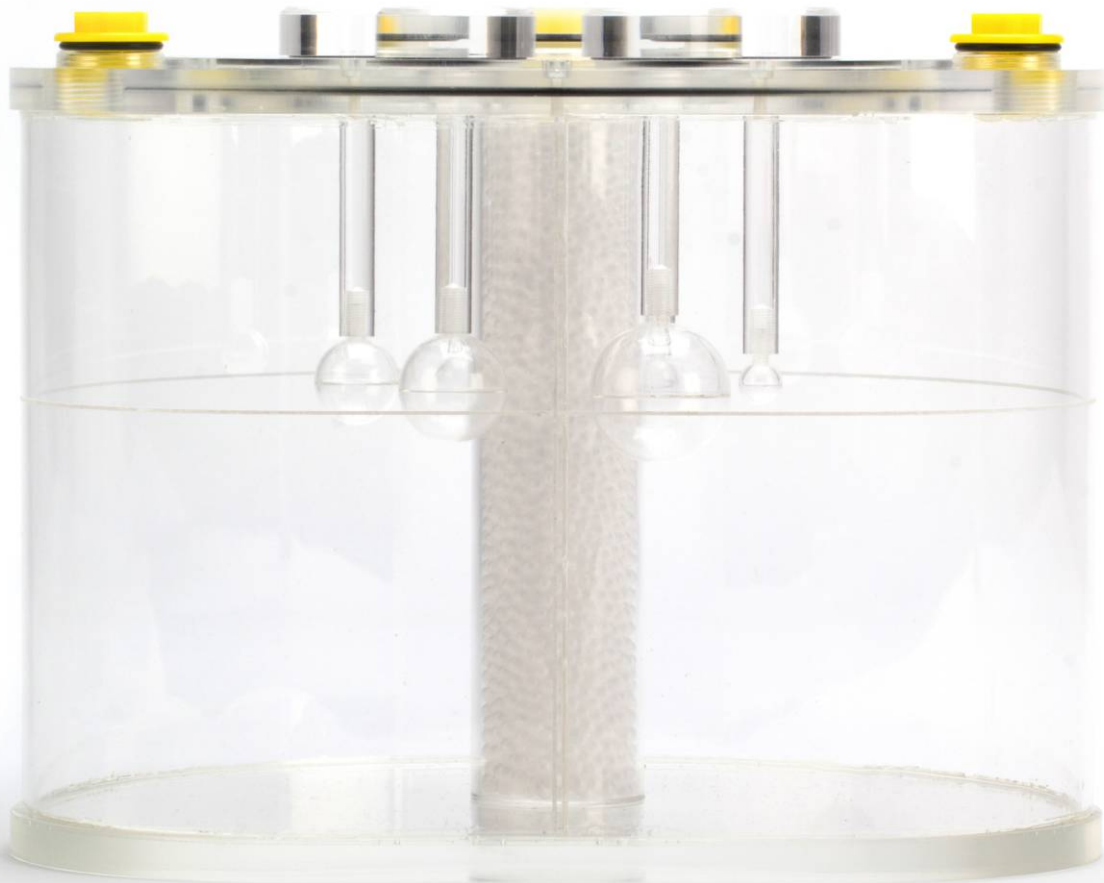
fig. 4 PET IQ main parts

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