



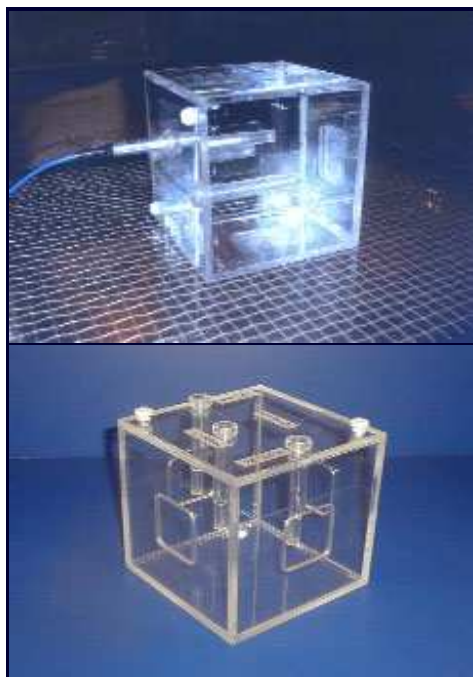
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## Liu Consistency Phantom (LCP) - Catalog # 0312

**Consistency Output Check**  
**Photon Beam QA • Electron Beam QA**  
**Field Symmetry and Flatness Measurements**



**" Your Daily Quality Assurance performed with Ease and Confidence! "**

**Features:**

- Water based system,
- Chamber placement is consistent from week to week,
- Set-up is quick and easy,
- Built to customer's specifications. The chamber holder is made for your particular chamber,
- Perform the laser alignment check at the same time,
- For physicists that cover more than one facility, the phantom can be transported without water, thus lightweight,
- Economical. Multi-treatment rooms facility can easily afford to keep one phantom in each treatment room, so the phantom is always in temperature equilibrium,
- No assembly required,
- Sturdy construction.

**Description:**

The small portable Liu Consistency Phantom (LCP) is an acrylic cube with three custom-made ionization chamber holders for your particular chamber. The phantom is 15cm<sup>3</sup> (outside dimension). Thin, 5.0cm x 5.0cm windows are milled at the center of four walls. The probe holders are at depths of 1.0, 2.0, 5.0 and 10cm from the four windowed surfaces respectively. There are two small filler holes to facilitate the filling and emptying of the phantom with water. Cross hair and the outline of a 10cm x 10cm field are inscribed on the four windowed walls.

**Technical Specifications:**

Overall Size:	15cm <sup>3</sup> (outside dimension)
Field Size:	10.0cm x 10.0cm
Window Size:	5.0cm x 5.0cm
Window Thickness:	1.0mm
Chamber Distance "A"	1.0cm
Chamber Distance "B"	2.0cm
Chamber Distance "C"	5.0cm
Chamber Distance "D"	10.0cm
Overall Weight: (empty)	0.8Kg (1.8lbs)
Overall weight: (full)	3.6Kg (7.9lbs)
Materials used:	Clear Acrylic

(Ionization Chambers are not included)

**LCP - Instructions For Use**

Photon Beam QA	Electron Beam QA	Field Symmetry QA
<ol style="list-style-type: none"> <li>1. Fill the phantom with water, take care not to have any air pockets inside the phantom.</li> <li>2. Let the phantom stay in the room until it is at temperature equilibrium. (Normally, you would just leave the water filled phantom in the treatment room).</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill the phantom with water, take care not to have any air pockets inside the phantom.</li> <li>2. Let the phantom stay in the room until it is at temperature equilibrium. (Normally, you would just leave the water filled phantom in the treatment room).</li> </ol>	<ol style="list-style-type: none"> <li>1. After the completion of the output and energy ratio measurements of the beam, move the couch perpendicular to the axis of the chamber until the cross hair is projected on the edge of the phantom.</li> <li>2. Open the collimator to 20cm x20cm.</li> </ol>