

part number
CTP698
CCT162

page 1 of 2



CTP698 and CCT162 COPD Lung Phantom II

The COPD Lung Phantom II was developed for use in studies that involve CT measurements of lung densities. The phantoms were developed following input from the QIBA COPD/Asthma Technical Committee. These phantoms are not intended to replace comprehensive quality assurance testing programs. Instead, they are intended to offer additional information for use in monitoring CT scanners used in clinical studies.

The 5 cm thick 25 cm x 35 cm oval shape phantom body annulus is manufactured from our Catphan® uniformity material. To simulate lung density a 15 cm x 25 cm foam insert is pressed into the annulus.

The foam insert contains 3 cm diameter samples of air, water (empty plastic bottle supplied), and acrylic, along with three foams which have been identified by NIST in their studies. The three NIST foams are referred to as 4, 12 and 20 pound foams. These materials are used to generate different density references for use in inter scanner comparisons and single scanner constancy measurements over time.

To simulate the bronchi, there is an assortment of different sized airways with polycarbonate walls with internal diameters ranging from 2.5 mm to 6 mm and outside diameters ranging from 3.3 mm to 9 mm. Additional specifications on the phantom can be obtained from the product manual.

The phantom is available in the CTP698 version shown in the photograph on page 1 and



The Phantom Laboratory

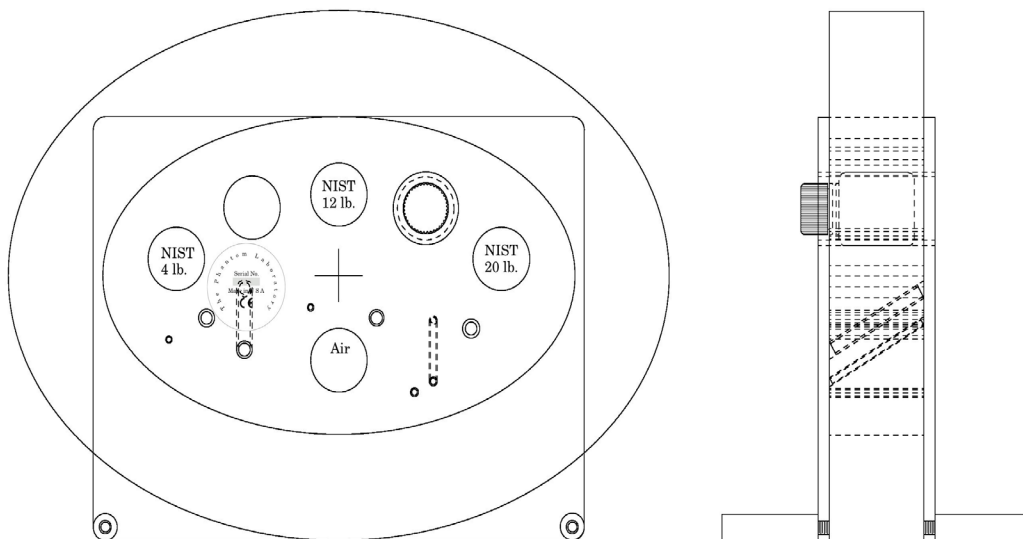
phone
800-525-1190 or 518-692-1190
fax
518-692-3329

mail
P.O. Box 511
Salem, New York 12865
shipping
2727 State Route 29
Greenwich, New York 12834

email
info@phantomlab.com
web
www.phantomlab.com

part number
CTP698
CCT162

page 2 of 2



in a CCT162 version illustrated in the sketch above. The CCT162 includes end plates and support legs. The CCT162 version is recommended for clinical trials since the feet stabilize the phantom when scanning and the plastic end plates help protect the foam from damage. The CTP698 is intended for research applications.



The Phantom Laboratory

phone
800-525-1190 or 518-692-1190
fax
518-692-3329

mail
P.O. Box 511
Salem, New York 12865
shipping
2727 State Route 29
Greenwich, New York 12834

email
info@phantomlab.com
web
www.phantomlab.com