



Water Phantoms with Depth Positioning Assembly

The CNMC Models WP-3040 and WP-3840 are water phantoms with convenient manual ion chamber depth positioning. The water tanks are constructed of 3/8 inch acrylic and provided with side-mounted handles, a drain and a ball valve.

The outstanding feature is the depth positioning assembly that is common to both models and is unique in construction and operation. The ion chamber holder Teflon® block slides on two stainless steel rods and is driven by a stainless steel lead screw. One turn of the hand crank quickly and accurately moves the chamber holder block 1 mm. A mechanical counter with pushbutton reset capability indicates depth to the nearest 0.1 mm.

The chamber holder block has a 7 mm hole with 3 set screws, designed to hold various chamber holders. The chamber holder that is supplied with the phantom can accommodate cylindrical ion chambers of various diameters, from 3 mm to 16 mm. Plane-parallel ion chamber holders are available as an option to accommodate Markus® or NACP chambers and Roos® chambers.

The horizontal off-center positioning is achieved by sliding the depth positioning assembly along the edge of the water tank to the desired position as indicated on the horizontal scale mounted on the end of the tank. The larger phantom features an additional scale on the side of the tank.

The depth positioning assembly of both models may be easily retro-fitted with an optional Remote Motor Drive that allows chamber depth positioning from a remote location. The depth is indicated by a digital LCD display with push button zeroing, adding convenience and significant time saving to your monthly routine.

Specifications

Model WP-3040

Tank dimensions	30 cm wide x 40 cm long x 38 cm high
Material	3/8 in clear acrylic sides, 3/8 in white acrylic bottom
Drain valve	Ball type, PVC with Teflon seats and 1/2 inch PVC barbed nipple
Weight	7.8 kg (17.2 lbs) empty approx. 50 kg (110 lbs) filled

Model WP-3840

Tank dimensions	38 cm wide x 40 cm long x 38 cm high
Material	3/8 in clear acrylic sides, 3/8 in white acrylic bottom
Drain valve	Ball type, PVC with Teflon seats and 1/2 in PVC barbed nipple
Weight	8.9 kg (19.5 lbs) empty approx. 62 kg (136 lbs) filled

Depth positioning assembly

Travel	25 cm vertical
Counter	Mechanical, 5-digit, 0.1 mm precision
Chamber holder	Cylindrical chamber holder accommodates diameters from 3 mm to 16 mm
Materials	Acrylic, stainless steel, Teflon
Weight	1.8 kg (4 lbs)

Accessories

WPK-100 Waterproofing kit for PTW Farmer®-type chambers

WPK-75 Waterproofing kit for NE Farmer-type chambers

WPK-691 Universal waterproofing kit, fits PTW, NE, Capintec

CH-1 Chamber holder for Markus® chamber

CH-2 Chamber holder for Roos® chamber

RMD-100-5 Remote Motor Drive, bolts directly to depth positioning assembly, includes remote/control display unit with 0.05 mm precision and 15 m cable

RMD-200-5-PC Programmable Remote Motor Drive, bolts directly to depth positioning assembly, includes PC or MAC compatible software, interface module and associated cables.

* Ask about fitting our depth drive to your existing tank