

Aqua Tester

Nessler Tube Comparator and Color Discs For Color of Water & Very Low Concentrations

*Precise analysis of Water, Sewage, and Industrial
Wastes...Accurate pH Measurements of Both
Buffered and Unbuffered Solutions*

The Aqua Tester is a precise, visual instrument for rapid and accurate tests in the modern water laboratory. It is the most advanced visual instrument for measuring color of water, fluoride, and low chemical concentrations of chlorine, ammonia, nitrogen, silica, etc. in which extremely pale color are developed. These tests cannot be made with ordinary comparator methods because the steps between the colors are too small for sufficient visual discrimination. The Nessler tubes of the Aqua Tester easily overcome this difficulty because their long viewing depth(200 mm.-about 8 inches) greatly increases the intensity of the colors and produces distinct easy-to-see steps.

The Aqua Tester is also widely used for measuring the pH of solutions, particularly unbuffered ones such as distilled water, steam condensates, boiler make-up water, etc. Ordinary colorimetric methods cannot be used for this purpose because the pH of the unbuffered sample is affected by the indicator solution. The problem is eliminated with the Aqua Tester, because an extremely small ratio of indicator to test sample is employed. The accuracy achieved with the simple procedure of the Aqua Tester compares very favorably with results obtained with the more complicated electrometric method.

The Aqua Tester includes a magnifying eyepiece which allows the color fields of the sample and color disc to be enlarged and brought side-by-side for more accurate comparison.

IMPORTANT FEATURES:

- **Measure 5 ranges of color of water (APHA Pt-Co Color, ASTM D-1209).**
- **15 times more sensitivity than conventional comparator methods.**
- **Guaranteed permanent color standards.**
- **Magnified side-by-side comparisons of color standards and test samples.**
- **"No-Meniscus" Nessler tube system. Polished plungers eliminate annoying reflections from meniscus curvature, makes color comparisons easy.**
- **Built-in daylight-corrected lamp assures accurate results.**



Model 611-A Aqua Tester with
Magnifying Prism

Color Disc Test Kits for 611-A Aqua Tester			
OUTFIT	TEST NAME	RANGE	METHOD
611-12A	Aluminum	0-1.0 ppm Al	Aluminon
611-15A	Ammonia Nitrogen	0-0.6 ppm N	Nessler
611-32A	Chlorine (Very Low)	0-0.3 ppm Cl ₂	DPD
611-30A	Chlorine (Very Low)	0-0.3 ppm Cl ₂	O-Tol.
611-31A	Chlorine	0-1.0 ppm Cl ₂	O-Tol.
611-14A	Chromate	0-0.12 ppm Cr	Carbazide
611-9	Color of Water	0-25 color units	Pt-Co.
611-10A	Color of Water	0-50 color units	Pt-Co.
611-10	Color of Water	0-70 color units	Pt-Co.
611-11	Color of Water	5-100 color units	Pt-Co.
611-100	Color of Water	0-500 color units	Pt-Co.
611-18A	Copper	0-1.0 ppm Cu	Dithiocarb.
611-75A	Fluoride	0-1.6 ppm F	Scotts-Sanchis
611-76A	Hydrazine	0-0.5 ppm	DMAB
611-35A	Iron	0-3.0 ppm Fe	Thiocyanate
611-50A	Lead	0-0.9 ppm Pb	Sulfide
611-45A	Manganese	0-1.0 ppm Mn	Periodate
611-20A	Nitrite	0-0.025 ppm N	S.N'lamine S
611-41A	Oxygen, Dissolved	0-12 ppm O ₂	Winkler
611-145	pH (4.0-5.6)	4.0-5.6 pH	B.C. Green
611-160	pH (5.2-6.8)	5.2-6.8 pH	C.P. Red
611-170	pH (6.0-7.6)	6.0-7.6 pH	BT Blue
611-180	pH (6.8-8.4)	6.8-8.4 pH	Phenol Red
611-190	pH (8.0-9.6)	8.0-9.6 pH	Thymol Blue
611-250A	pH Wide Range	2.0-11.0 pH	WR Ind.
611-56A	Phosphate	0-24 ppm PO ₄	P. Molybd. ANS
611-55A	Phosphate, ortho	0-120 ppm PO ₄	P. Molybd. ANS
611-61A	Silica	0-1.6 ppm SiO ₂	M. Reduct.
611-60A	Silica	0-25 ppm SiO ₂	Molybdate
611-65	Sulfide	0-5 ppm S	Antimony Rgt.

Ordering Information

Disc and all replacements for 611-A Test Kits (color discs, solutions, labware) can be purchased individually. For disc only, delete "A" from outfit number (eg. 611-12).

Ordering Information

Aqua Tester with 2 Nessler tubes and 2 optical plungers, built-in magnifying prism eyepiece, color-corrected lamp and directions.

611-A Aqua Tester, complete for 110v, AC/DC

Replacement Parts / Accessories

611-T Nessler Tube, 200mm, borosilicate glass.
611-PL Plunger, optically polished.

611-FHC, Filter plate.

272 Replacement Bulb, for 611-A, for 110v, AC/DC.

249-3 Voltage Reducer, for 220v, 50/60Hz operation.

Order Color Disc Test Outfits separately from chart.