

# Reichert AR7 Series Refractometers



Fully automatic; Peltier temperature controlled; and superior ease of use.

## AR7 Series Automatic Refractometers

The **AR7** Series Automatic Refractometers feature exceptional accuracy, solid state temperature control, a wide reading range, and simple and fast operation. They offer outstanding flexibility to provide accurate readings for a variety of applications, from chemical identification to purity determination to concentration measurements. The **AR7** Series refractometers feature an expanded refractive index reading range of 1.33 to 1.6 and Peltier Temperature Control from 10° to 100° C. They enable you to analyze a broad range of samples, from fruit juices to polymers, and eliminate the need to dedicate instruments for specific products.

### Reichert AR7 Series Key Features:

- **Sapphire prism for incredible durability**
- **Peltier Temperature Control from 10° to 100°C with automatic temperature equilibration detection to ensure accurate readings**
- **No water bath circulators are ever required**
- **Refractive Index range of 1.33 to 1.6**
- **Brix range of 0 to 95%**
- **User-definable calibration points throughout the reading range ensure accuracy at every point**
- **Accommodates sample types that are transparent, translucent or opaque**
- **Simple calibration, NIST certified oils included**
- **Calibration History Log**
- **Accessories enhance repeatability, accuracy and reliability for special applications that call for them**



## Reichert AR7 Series Technical Specifications

<b>Operation</b>	Automatic, Reflected Light Refractometer
<b>Catalog No.</b>	<b>AR700</b> - 13107000 (110 to 220V with US, EU and UK Power Cords) <b>AR70</b> - 13107700 (110 to 220V with US, EU and UK Power Cords)
<b>Sample Types</b>	Transparent, Translucent, and Opaque Liquids
<b>Reading Range</b>	1.33 to 1.6 Refractive Index 0 to 95% Brix
<b>Precision</b>	<b>AR700</b> - 0.00001 Refractive Index, 0.01 Brix <b>AR70</b> - 0.0001 Refractive Index, 0.1 Brix
<b>Illumination</b>	High Intensity, Long Life LED's, 589 nm
<b>Calibration</b>	Set Point or Set Point/Span User Definable
<b>Temperature Control Method</b>	Built-In Peltier System (No water bath circulator needed)
<b>Temperature Control Range</b>	10° to 100° Celsius
<b>Temperature Precision</b>	0.01° Celsius
<b>Prism Assembly</b>	Sapphire Prism mechanically sealed with Teflon Gasket to 416 Grade Stainless Steel Sample Well
<b>Display</b>	Graphic LCD Display, 4.3"W X 2.4"H (11 X 6 cm)
<b>User Interface</b>	Simple, Effective 5-Button Operation
<b>I/O</b>	2 RS-232-C Serial Ports
<b>Warranty</b>	2 Years
<b>Software Features</b>	Calibration History Record, Programmable with Up to 14 Custom Scales, Password Protected Set-Up, Automatic Sample Equilibration Detection, Restore to Factory Option
<b>Reichert AR7 Series Accessory</b>	
13107300	AR7 Series Sample Press

### Two Models

AR700 with precision to 0.01 Brix or 0.00001 Refractive Index  
AR70 with precision to 0.1 Brix or 0.0001 Refractive Index

### Create a Partnership in Precision

All of our refractometers come with world-class customer service and technical assistance. Whether you're measuring Brix, RI, or a custom scale, Reichert will work with you to ensure your Reichert Refractometer exceeds your expectations.

**Reichert**<sup>™</sup>  
TECHNOLOGIES  
Analytical Instruments

Innovative precision instruments for over a century

## Digital Benchtop Refractometers

AR7 Series



AR6 Series



r<sup>2</sup>i300



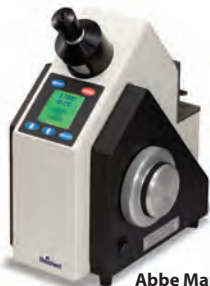
Part #	Description
13107000	AR700 AUTOMATIC REFRACTOMETER
13107700	AR70 AUTOMATIC REFRACTOMETER
13106000	AR600 AUTOMATIC REFRACTOMETER
13106600	AR60 AUTOMATIC REFRACTOMETER
13980000	r <sup>2</sup> i300 AUTOMATIC REFRACTOMETER

## Transmission Style Abbe Refractometers

Arias OptiMatrix 500



Abbe Mark III



Part #	Description
1310499SA	ARIAS OPTIMATRIX 500 SEMI-AUTOMATIC ABBE REFRACTOMETER
1310488M	Abbe MARK III REFRACTOMETER

## Diagnostic/Laboratory Instruments

UNISTAT Bilirubinometer



Colony Counter



Part #	Description
1310310C	UNISTAT BILIRUBINOMETER 115V
1310311C	UNISTAT BILIRUBINOMETER 230V
13102140	SPECIMEN CUVETTES (51 PER PKG)
13332700	DIGITAL COLONY COUNTER 110V
13332800	DIGITAL COLONY COUNTER 220V
13332500	MANUAL COLONY COUNTER 110V
13332600	MANUAL COLONY COUNTER 220V

## Digital Hand-Held Refractometers

r<sup>2</sup>mini



AR200/TS METER-D with Optional Communications Cradle

Part #	Description
13940000	r <sup>2</sup> mini REFRACTOMETER
13950000	AR200 REFRACTOMETER
13952000	AR200 W/ IR COMMUNICATIONS PKG
13960000	TS METER-D CLINICAL REFRACTOMETER
13962000	TS METER-D CLINICAL W/ IR COMMUNICATIONS PKG

## Hand-Held Refractometers

Rhino Model

Goldberg w/Optional Illuminated Stand



HP Model



Part #	Description
13104230	GOLDBERG BRIX 0-30
13104190	GOLDBERG SALINITY METER
1310400A	GOLDBERG TS METER
13104060	GOLDBERG ILLUMINATED TABLE STAND 110V
13104080	GOLDBERG ILLUMINATED TABLE STAND 220V
13740000	TS400 HP CLINICAL REFRACTOMETER
13851500	15HP 0-15 BRIX
13853500	35HP 0-35 BRIX
13856500	65HP 35-65 BRIX
13859000	90HP 65-90 BRIX
13851000	IFT10HP INDUSTRIAL FLUID TESTER
13759600	BC3 HP BRAKE-CHEK
137596C0	BC3C HP BRAKE-CHEK
13759510	BC4 HP BRAKE-CHEK (USA)
13759500	BC4 HP BRAKE-CHEK (European)
137530L0	RHINO 0-30 BRIX
137531L0	RHINO 0-50 BRIX
137533L0	RHINO 50-90 BRIX
137564L0	RHINO DC60 COOLANT DEG C
137584L0	RHINO DC70 COOLANT DEG F
13754000	RHINO IFT40 INDUSTRIAL FLUID TESTER
137536L0	RHINO VET360 TS METER
137528L0	RHINO OE200 WINE TESTER



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