

Operation Manual

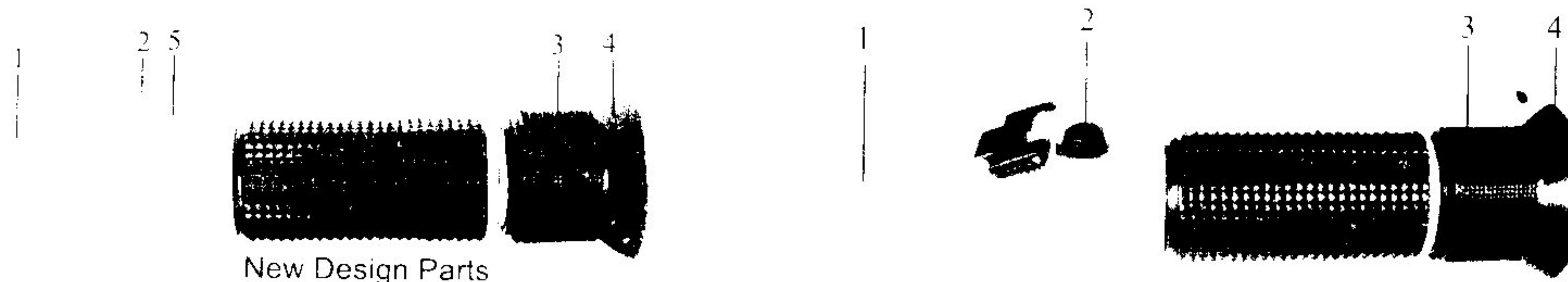
Brix refractometer

Model	Range	Min. Div.	Accuracy
RHB-10/ATC	0-10%Brix	0.1%Brix	±0.10%
RHB-18/ATC	0-18%Brix	0.1%Brix	±0.10%
RHB-32/ATC	0-32%Brix	0.2%Brix	±0.20%
RHB-62/ATC	28-62%Brix	0.2%Brix	±0.20%
RHB-82/ATC	45-82%Brix	0.5%Brix	±0.50%
RHB-90/ATC	58-90%Brix	0.5%Brix	±0.50%Brix
	38-43Be'	0.5Be'	±0.50Be'
	12-27%water	1%water	±1%water
RHB-92/ATC	58-92%Brix	0.5%Brix	±0.50%Brix
	38-43Be'	0.5Be'	±0.50Be'
	12-27%water	1%water	±1%water
RHB0-50	0-50%Brix	1%Brix	±1%Brix
RHB0-80	0-80%Brix	1%Brix	±1%Brix
RHB0-90	0-90%Brix	0.2%Brix	±0.2%Brix

Remarks: 1) If new style model, "N" will be added in the model name, such as RHBN-32ATC etc..

2) ATC Compensation Range: From 10°C to 30°C (50°F to 86°F)

Parts:



1----Daylight Plate; 2----Calibration Screw; 3----Focus Adjustment; 4----Eyepiece; 5----Calibration Screw Block

Method of operation:

1) Aim the front end of the refractometer to the direction of bright light, and adjust the eyepiece until the reticle can be seen clearly.

2) Adjustment of null:

Open the daylight plate and place 2-3 drops of distilled or R.O. water on the main prism. Close the daylight plate and press it lightly so the water spreads across the entire surface of the prism without air bubbles or dry spots. Allow the sample to remain on the prism for approximately 30 seconds. **Then adjust** the Calibration Screw until the light/dark boundary coincides with the null line. Adjustment of refractometer with temperature compensation function should be made under the condition of 20°C (68°F) environmental temperature. When working temperature of the room or environment (not the sample) changes by more than 5°F, we recommend recalibration to maintain accuracy.

* Model RHB-62/ATC: Calibration by using a saturated sodium chloride solution. The refractive index of the saturated sodium chloride solution is: when temperature is at 15°C, adjust to 29.9%; when it is at 20°C, adjust to 29.6%; when it is at 25°C, adjust to 29.2%.

** Model RHB-82/ATC, RHB-90/ATC and RHB-92/ATC: calibration reference: Drop one drop of dioptic oil on the bright surface of the reference block. Open the cover plate, stick the reference block on the surface of the prism, and press it lightly with your hand, so that it can't slide down, rotate and adjust the calibration screw to make the light/dark boundary coincide with the reference line (Brix 78.8%).

3) Operation procedure is done after calibration and it is done in essentially the same manner as calibration. Open the daylight plate. Clean the surface of prism by soft cotton cloth. Drop 2-3 drops of solution to be measured on the main prism. Close the daylight plate and press it lightly, then read the corresponding scale of light/dark boundary. The reading is the Brix value of the measured solution.

4) After measurement, clean away the measured solution on the surface of prism and cover plate by moist cotton cloth. After drying, it should be stored perfectly.

Warnings- Maintenance: