

# Digital Laboratory Refractometers

Abbemat 3001 | Abbemat 3101 | Abbemat 3201



# Abbemat Essential

## Cost-Efficient Quality Control

**The Abbemat Essential line is budget-friendly with unparalleled construction design, precision, and temperature control. All three instruments are suitable for liquids, viscous or solid substances, and turbid solutions. No training is needed, making them accessible for all lab employees.**



Precise Peltier temperature control for all instruments



Up to 10 methods: refractive index and Brix preset, plus 8 optional methods



High precision and reproducibility (up to  $\pm 0.00002$  nD)



Sapphire prism backed by a 25-year warranty



Easy label printing, no error-prone manual data copying

|                                    | Abbemat 3001                               | Abbemat 3101                               | Abbemat 3201                               |
|------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| <b>Peltier temperature control</b> | 20 °C to 40 °C                             | 10 °C to 70 °C                             | 4 °C**to 105 °C                            |
| <b>Measuring range</b>             | 1.33 nD to 1.55 nD<br>0 °Brix to 100 °Brix | 1.30 nD to 1.66 nD<br>0 °Brix to 100 °Brix | 1.26 nD to 1.72 nD 0<br>°Brix to 100 °Brix |
| <b>Accuracy*</b>                   | $\pm 0.0001$ nD<br>$\pm 0.05$ °Brix        | $\pm 0.00004$ nD<br>$\pm 0.03$ °Brix       | $\pm 0.00002$ nD<br>$\pm 0.015$ °Brix      |
| <b>Connectivity</b>                |                                            | Label printer                              |                                            |

\* Valid at standard conditions (T=20 °C, ambient temperature 20 °C to 25 °C)

\*\* At max. ambient temperature of 35 °C