

Specifications	RFM330-T	RFM340-T
Scales Refractive Index Sugar (°Brix) User-defined	1.32 – 1.58 0-100 100	1.32 – 1.58 0-100 100
Resolution Refractive Index Sugar (°Brix)	0.0001 / 0.00001 (selectable) 0.1 / 0.01 (selectable)	0.000001 (selectable up to 6 d.p.) 0.01/0.001 (selectable up to 3 d.p.)
Accuracy Refractive Index Sugar (°Brix)	±0.00005 ±0.04	±0.00002 (1.32 – 1.38 RI) ±0.00004 (1.38 – 1.58 RI) ±0.010 (0 – 30 °Brix) ±0.030 (30 – 100 °Brix)
Precision (Reproducibility) Refractive Index Sugar (°Brix)	± 0.00001 ± 0.01	± 0.000005 (6 d.p.) ± 0.005 (3 d.p.)
User Scale Library	20+ pre-programmed scales including HFCS (3), sugar (4), sucrose SG (3), NaCl, Butyro, Wine Must (5), Urine SG (3), PHR-MEAN and more; plus customer programmable user scales via PC.	
Reading Time	Minimum 4 seconds (dependant on precision required)	
Measuring Temperature Range	0°C or 10°C below ambient whichever is greater to 70°C	
Temperature Sensor Accuracy	± 0.03 °C	
Sample Temperature Stability	± 0.05 °C	
Temperature Compensation Sucrose (°Brix) AG Fluids User-defined	5 – 80 °C 5 – 40 °C Simple coefficient (units/ °C) or polynomial function	
Temperature Stability Checks	None/delay time/repeatability/ Smart (independently selectable by Method)	

Sample Illumination	Light Emitting Diode 589nm (100,000+ hours)
Prism / Dish	Artificial Sapphire / Stainless Steel 316 / PEEK (spill barrier)
Prism Seal	Silicon/Resin
Interfaces	3 x USB (A), 1 x USB (B), 1 x Ethernet, 1 x Serial (RS232)
Power	Instrument: 24 V DC, $\pm 5\%$, $< 2A$ External PSU: 100-240V, 50-60Hz (supplied)
Humidity Range	$< 90\%$ RH (non-condensing)

Order Code	Description
19-30	RFM330-T Peltier temperature controlled refractometer with latest integral 7" full colour touch-screen, high definition display and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity.
19-40	RFM340-T Peltier temperature controlled refractometer with latest integral 7" full colour touch-screen, high definition display and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity.
22-498	Spare filters for RFM-T models (pack of 12)
55-14	Dot-matrix impact printer, 24 column: Serial (RS232), 230V (UK/Euro plug)
55-16	Dot-matrix impact printer, 24 column: Serial (RS232), 110V (USA plug)
54-02	Serial interface cable for printer