

Technical Specifications				
Model	RFM330-M	RFM340-M	RFM960-T	RFM970-T
Scales:				
Refractive index	1.32 - 1.58	1.32 - 1.58	1.30 1.70	1.30 1.70
Sugar (°Brix)	0 - 100	0 - 100	0 - 100	0 - 100
User-defined	100	100	100	100
Resolution:				
Refractive index	0.0001	0.000001 (selectable up to 6 d.p.)	1.30 1.70	0.000001 (selectable up to 6 d.p.)
Sugar (°Brix)	0.1	0.01/ 0.001 (selectable up to 3 d.p.)	0.1	0.01/ 0.001
Accuracy:				
Refractive index	±0.0001	±0.00002 (1.32 - 1.38 RI) ±0.0004 (1.38 - 1.58 RI)	±0.0001	±0.00002
Sugar (°Brix)	±0.1	±0.010 (0-30° Brix) ±0.30 (30 - 100° Brix)	±0.1	±0.02
Precision (reproducibility)				
Refractive index	±0.00005	±0.000005 (6 d.p.)	±0.00005	±0.000005 (6 d.p.)
Sugar (°Brix)	±0.05	±0.005 (3 d.p)	±0.05	±0.005
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		20+ pre-programmed scales including HFCS (3), sugar (4), sucrose SG (3), ASTM D2140, PHR-MEAN, Urea 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		0°C or 10°C below ambient whichever is greater, to 80°C	
Temperature sensor accuracy	±0.03°C	±0.03°C	±0.03°C	±0.03°C
Sample temperature stability	±0.05°C	±0.05°C	±0.02°C	±0.02°C
Temperature Compensation:				
Sucrose (Brix)	5 - 80°C			
AG Fluids	5 - 40°C			
User-defined	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	Silicon/ Resin	Kalrez®	Kalrez®
Interfaces	3 x USB (A), 1 x USB (B), 1 x Ethernet, 1 x Serial (RS232)			
Power:				
Instrument	24V DC, ±5%, <2A			
External PSU	100 - 240V, 50 - 60Hz (supplied)			
Humidity range	<90% RH (non condensing)			



RF/45686



RF/45680

Cat. No.	Code	Description
RF/45680	19-00	Refractometer model RFM712-M, RI 1.32 - 1.42, Brix 0 - 50°
RF/45682	19-10	Refractometer model RFM732-M, RI 1.32 - 1.54, Brix 0 - 100°
RF/45684	19-20	Refractometer model RFM742-M, RI 1.32 - 1.54, Brix 0 - 100°
RF/45686	19-35	Refractometer model RFM330-M, RI 1.32 - 1.58, Brix 0 - 100°
RF/45688	19-45	Refractometer model RFM340-M, RI 1.32 - 1.58, Brix 0 - 100°
RF/45690	19-60	Refractometer model RFM960-T, RI 1.30 - 1.70, Brix 0 - 100°
RF/45692	19-70	Refractometer model RFM970-T, RI 1.30 - 1.70, Brix 0 - 100°