

RFM700 Refractometers



RFM700 series refractometers are robust, low cost, fully automatic instruments that are ideally suited to the food, sugar and beverage industries but can also be used in many other non-food applications where temperature control is not required.

The instruments are configured to operate in the °Brix scale with results temperature-compensated to 20°C in accordance with ICUMSA. Additionally, two standard user scales may be installed from an extensive online library, or product-specific custom scales and temperature compensation may be created using PC software available free of charge from our website prior to downloading to the instrument.

Inherent to the robust design is a sapphire prism mounted in an easy-clean stainless steel dish and an outer casing that is sealed and shaped to withstand sample spillage and moisture ingress. This, together with the external power supply and bright LED display, makes the RFM700 ideal for use in busy laboratories or harsh factory environments. The instrument can also be connected to a printer or laboratory PC, with results being output in standard or CSV formats.

Other software features include special AG temperature compensation that facilitates a SPAN calibration when using AG calibration fluids, and a time delay before reading, ensuring reliable results every time.



- Multiple scale
- Factory model
- Simple operation
- Reading delay

Specifications	RFM712 (71F)	RFM732 (73F)	RFM742 (74F)	RFM745
Order Code	29-12	29-32	29-42	29-45
Scales				
°Brix	0 - 50	0 - 100	0 - 100	0 - 100
User Defined (RI equivalent)	2 (1.33-1.42)	2 (1.33-1.54)	2 (1.33-1.54)	NO
Resolution (°Brix/RI equivalent)	0.1 (0.0001)	0.1 (0.0001)	0.01 (0.00001)	0.01 (NO)
Accuracy (°Brix/RI equivalent)	±0.1 (±0.0001)	±0.1 (±0.0001)	±0.04 (±0.00005)	±0.04 (NO)
Other Scales	User Defined - RI, Oechsle, Probable Alcohol (A.P.), Báume, Babo, Sodium Chloride, HFCS, Butyro, FSII ² etc. or custom scales, all loaded by PC software.			42% HFCS 55% HFCS 90% HFCS
Temperature Range	5-40°C			
Temperature Compensation	ICUMSA, AG, None or User Defined			ICUMSA, AG, None
Temperature Control	None - Temperature Compensation (ATC)			
Temperature Sensor Accuracy	±0.05°C			
Temperature Stability Checks	Delay time (programmable in seconds)			
Interface	RS232			