

## Specification Bench Refractometer (S073)

### Bench Refractometer Product Code: VRFM732

#### Measurements Specifications

Scales	°Brix and User Defined (2 scales configurable)
Range	0-95 °Brix
Resolution	0.1 °Brix
Accuracy	±0.1 °Brix
Other available service	Refractive index (R.I.), Oechsle, Probable Alcohol (A.P.), Báume, Babo, Sodium Chloride, HFCS, Butyro, FS112 etc. or custom scales, all loaded by PC software
Automatic Temperature Compensation	ICUMSA, AG, None or User Defined
Reading Time (seconds)	4.5
Working Temperature Range	5 to 40°C
Temperature Sensor Accuracy	±0.05°C
Temperature Stability Checks	Delay time (programmable)
Interface	RS232
Ambient Humidity Range	<90% RH
Order Code	29-32



#### Physical Specifications

Prism	Artificial Sapphire (12mm sample area diameter)
Prism Dish	316 stainless steel (85mm diameter)
Sample Illumination	Light Emitting Diode (Life 100,000Hr +)
Wavelength	589nm
Temperature Control	None – Temperature Compensation (ATC)
Display	Large LED (6 digits) with 6 status indicators
Housing	Low Density Expanded Polyurethane Foam (chemical/acid resistant)

#### Electrical Specifications

External Power Supply	100 – 240V ~, 50-60Hz, 50mA
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#### Software Specifications

Printer Formats	CSV / 24 column
PC Software	Yes

#### Primary Features

Protected Menu Access	
Zero Capability	
User Span Capabilities	Configurable
Temperature Stability Check	Configurable (none or delay in seconds)
AG Fluid Temperature	Compensation Configurable

#### Optional Accessories

Water Proof Power Supply	
Splash Cover	
Interface Cables	
Printer Package	Date and time option

#### Instrument Compliance

Conforms to ISO/IEC Guide 22 and EN 45014  
 CE Low Voltage Directive 72/23/EEC and the EMC Directive  
 89/336/EEC

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### Instrument Dimensions

Nett Weight	3.9Kgs
Gross Weight (Packed)	6.4Kgs
Gross Dimensions	43 x 31 x 32cm
Footprint (w x d x h)	30 x 34 x 14cm
Customs Tariff	90275000

### 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.

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