



SLK 200

Technical Datasheet

Model: SLK 200

General Description

Magnetic Resonance Equipment for Time Domain Magnetic Resonance Spectrometry. Desktop equipment for Laboratory Installation. Determines content of: Fat/Oil, Moisture Content, Fatty Acid Content (Oleic and main FA), Protein Content and Acidity in Seeds, Grains and Foods in general.

General Information

Manufacturer

Spinlock SRL

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Cordoba, Argentina.
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Country of Origin

ARGENTINA / USA

Depending on shipping location

Measurement Principle

Low-Field Magnetic Resonance Spectroscopy.

HS Code

9027.80.99





SLK 200 - Components & Additional

<i>Name</i>	<i>Description</i>	<i>Illustration</i>
<p>SLK 200 SPECTROMETER (Main Body)</p>	<p>Main Body of the Spectrometer. Modules included:</p> <ul style="list-style-type: none"> - SLK 200 Parallel Magnet - RF Probe - Condor Console: <ul style="list-style-type: none"> • SLK Digital module. • SLK RX (Receiver). • SLK TX (Transmitter). • SLK PS (Power Supply). • SLK CT (Temperature Control). 	
<p>BULK SAMPLE HOLDERS</p>	<p>Teflon (white) or Glass (transparent) sample holder tubes. Quantity: 2 Teflon tubes are required for Oleic Acid and Temperature sensitive measurements as have perforations for sample temperature compensation.</p>	
<p>SINGLE SEED SAMPLE HOLDERS (Optional)</p>	<p>Single Seed special Sample Holders. Quantity: 2 Different sizes available.</p>	
<p>AUTOMATIC BALANCE</p>	<p>Ohaus Scout SPX 222 Balance Precision: 0,01 gr</p>	
<p>PC</p>	<p>1 Desktop CPU including Monitor, Keyboard, Mouse and Power Stabilizer. Includes installed Software.</p>	

SLK 200 - General Operation Data

OPERATION / MAINTENANCE	Configuration Data	Once calibrated does not require input data.
	Calibration	Where applicable calibrated with pattern samples. Pattern methods depend on parameter: Soxhlet (Oil), Oven Dry (Moisture), Gas Chromatography (Oleic Acid), Kjeldahl (Protein Content).
	Operation Ambient Temperature	25° C (+/- 0,5° C)
	Required Maintenance	No operation stoppage. Spinlock recommends a Calibration verification every 12 months.
INSTALLATION / PACKAGING	Palleted Wood Box (75cmx75cmx75cm)	Including Main Body SLK 200, Sampleholders, Monitor, CPU, Keyboard, Mouse, Balance and Power Stabilizer.
	Total Weight	50 kg
	Power consumption	120V / 220V – 300W
MAIN COMPONENTS TECHNICAL DESCRIPTION	SLK Parallel Magnet	Model: SL.IM.01 Material: SMCO alloy Weight: 64 Kg. Region of Interest Vol: 37 cm ³ / 14,5 in ³ Sample volume: 32 cm ³ / 12,6 in ³
	SLK Trasmmitter	Model: SL.TX.01-01 Maximum Power: 300 w

SLK 200 - General Operation Data

MAIN COMPONENTS TECHNICAL DESCRIPTION

SLK Receiver

Model: SLRX01-01
Channels: Two channels in quadrature with the
RF Gain: Variable up to 110 dB

SLK PS Power Supply

Model: SLK PS 02-02
Single phase Linear/Switching
AC Voltage: 100-240 V 50 Hz

TECNOLOGY INFORMATION

Measurement Principle

Low-Field Magnetic Resonance Spectroscopy.

Consumables

None.

Radioactive

NO. Does not use. Environment friendly.

Mobile parts

None.

Frequency of operation

~ 11 Mhz

Magnetic Field strength inside the equipment magnet

280 mT

Magnetic Field strength outside the equipment.

None.

Radio Frequency pulses released outside the equipment

None.