

# Republic of the Philippines TARLAC STATE UNIVERSITY BIDS AND AWARDS COMMITTEE GOODS AND SERVICES

Romulo Blvd., San Vicente, Tarlac City 2300

February 25, 2025

### SUPPLEMENTAL BID BULLETIN NO. 1

## Supply and Delivery of Laboratory Tools and Equipment for the Center of Food Technology and Research (APP 2024), Rebid

This Supplemental Bid Bulletin no. 1 is issued to clarify items and shall be an integral part of the Bidding Documents.

Please be informed of the modification in the bidding documents.

POSTED TO PHILGEPS			MODIFICATION			
	Section VII. Technical Specifications			Section VII. Technical Specifications		
Item	Description		Item	Description		
No.			No.	Postorial Contract		
18	Vacuum Oven,		18	Vacuum Oven,		
	Performance Data Temperature Heating-up			Performance Data Temperature Heating-up		
	time to 100 °C [min] 80 Temperature	-1		time to 100 °C [min] 80 Temperature		
	fluctuation [± K] 0.1 Temperature range			fluctuation [± K] 0.1 Temperature range		
	+10 °C above ambient temperature to			+10 °C above ambient temperature to		
	[°C] 220: Temperature range +9 °C above			[°C] 220; Temperature range +9 °C above		
	ambient temperature to			ambient temperature to		
	[°C] 220; Temperature variation at 100 °C			[°C] 220; Temperature variation at 100 °C		
	[± K] 1.2 Vacuum Data; Leak rate [bar/h]			[± K] 1.2 Vacuum Data; Leak rate [bar/h]		
	0.01			0.01		
	Electrical data; Nominal power [kW] 1.4;			Electrical data; Nominal power [kW] 1.4;		
	Phase (Nominal voltage)1~			Phase (Nominal voltage)1~		
	Power frequency [Hz] 50/60 Rated Voltage			Power frequency [Hz] 50/60 Rated Voltage		
	[V] 200230 Unit fuse [A] 8			[V] 200230 Unit fuse [A] 8		
	Connections; Compressed air connection			Connections: Compressed air connection		
	for pressure- encapsulation			for pressure- encapsulation		
	[NW] 5; Measuring access port with small			[NW] 5; Measuring access port with small		
	flange [DN mm] 16; Universal connection			flange [DN mm] 16; Universal connection		
	for air / inert gas with flow limiter; thread			for air / inert gas with flow limiter; thread		
	(RP") 3/8	1		(RP") 3/8		
	Vacuum connection with small flange [DN	- 40		Vacuum connection with small flange [DN		
	mm] 16			mm] 16		
	Doors; Unit doors 1; Housing dimensions			Doors; Unit doors 1; Housing dimensions		
	not incl. fittings and connections; Depth			not incl. fittings and connections; Depth		
	net [mm] 461; Height net [mm] 815; Width			net [mm] 461; Height net [mm] 815; Width		
	net [mm] 638			net [mm] 638		
	Internal Dimensions; Depth [mm] 343;			Internal Dimensions; Depth [mm] 343;		
	Height [mm] 400; Width [mm] 400			Height [mm] 400; Width [mm] 400		
	Measures; Interior volume [L] 55; Load			Measures; Interior volume [L] 55; Load		
	per rack [kg] 20; Net weight of the unit			per rack [kg] 20; Net weight of the unit		
	(empty) [kg] 95 Permitted load [kg] 60;			(empty) [kg] 95 Permitted load [kg] 60;		
	Viewing window height [mm] 420 Viewing			Viewing window height [mm] 420 Viewing		
				window width [mm] 420; Wall clearance		
	window width [mm] 420; Wall clearance back [mm] 100; Wall clearance sidewise			back [mm] 100; Wall clearance sidewise		
	[mm] 70 Environment-specific data Soundpressure			[mm] 70 Environment-specific data Soundpressure		
	level [dB(A)] 40 Fixtures			level [dB(A)] 40 Fixtures		
	Number of shelves (std./max.) 1/5			Number of shelves (std./max.) 1/5		
	With Vacuum Pump			With Vacuum Pump		
	Technical Specifications:			Technical Specifications:		
	Max. temperature of liquid media: 5 – 40			Max. temperature of liquid media: 5 – 40		
	°C			°C		
	Flow Rate 22 L/min		Flow Rate 22 L/min			
	Maximum Viscosity < 150 cSt		Maximum Viscosity < 150 cSt			
	Pump Flow 22 I/min		Pump Flow 22 I/min			
	Operating Conditions		Operating Conditions			
	Maximum Vacuum 100 mbar			Maximum Vacuum 100 mbar		
	Operating Current 0.9 A			Operating Current 0.9 A		
	Operating Pressure 1 bar			Operating Pressure 1 bar		
	Power Requirements			Power Requirements		
	Input Wattage 130 Watts			Input Wattage 130 Watts		
	Line Frequency 60 Hz			Line Frequency 60 Hz		
	Line Voltage 115 V			Line Voltage 115 V		

Power Requirements 115 V - 60 Hz Product Information **Product Information** Type of Pump Vacuum Pump Type of Pump Vacuum Pump Includes Includes -AVR 5KVA -AVR 5KVA -With vacuum pump included -With vacuum pump included With one year warrantyWith calibration certificate - With one year warranty - With calibration certificate - With personnel training - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer Drying Oven Convection, 19 Drying Oven Convection, 19 Specifications: Specifications: Temperature range [°C] 60...230
Heating-up time to 150 °C [min] 36
Recovery time after 30 seconds door open Temperature range [°C] 60...230 Heating-up time to 150 °C [min] 36 Recovery time after 30 seconds door open at 150 °C [min] 19 at 150 °C [min] 19 Electrical data Nominal Voltage [V] 230 Electrical data Nominal Voltage [V] 230 Power frequency [Hz] 50/60 Nominal power [kW] 0.8 Power frequency [Hz] 50/60 Nominal power [kW] 0.8 Phase (Nominal voltage) 1~ Phase (Nominal voltage) 1~ Measures Measures Interior volume [cu.ft.] 1 Interior volume [cu.ft.] 1 Net weight of the unit (empty) [lbs] 49 Net weight of the unit (empty) [lbs] 49 permitted load [lbs] 55 permitted load [lbs] 55 Load per rack [lbs] 22 Load per rack [lbs] 22 Wall clearance back [in] 6.3 Wall clearance sidewise [in] 3.94 Wall clearance back [in] 6.3 Wall clearance sidewise [in] 3.94 Internal Dimensions Internal Dimensions Interior width [in] 15.76 Interior width [in] 15.76 Interior height [in] 11.03 Interior height [in] 11.03 Interior depth [in] 9.85 Interior depth [in] 9.85 Doors Doors Unit doors 1 Unit doors 1 Housing dimensions not incl. fittings and Housing dimensions not incl. fittings and connections connections Width net [in] 22.85 Width net [in] 22.85 Height net [in] 15.96 Height net [in] 15.96 Depth net [in] 16.74 Depth net [in] 16.74 Fixtures Fixtures Number of shelves (std./max.) 2/4 Number of shelves (std./max.) 2/4 Benefits: Benefits: Uniform drying conditions thanks to APT.line™ technology Identical test conditions throughout the chamber interior independent of sample size and Uniform drying conditions thanks to APT.line™ technology Identical test conditions throughout the chamber interior independent of sample size and quantity Outstanding thermal insulation saves operation costs MAIN FEATURES: • Temperature quantity Outstanding thermal insulation saves operation costs MAIN FEATURES: • Temperature range: 60 °C to 230 °C • Adjustable exhaust air flap • Hydro-mechanical thermostat • Class 1 temperature range: 60 °C to 230 °C · Adjustable exhaust air flap · Hydro-mechanical thermostat • Class 1 temperature limitation device (Model E028-230V-T) • Timer 0 limitation device (Model E028-230V-T) • Timer 0 -120 min • 2 chrome-plated racks 120 min • 2 chrome-plated racks - With one year warranty - With one year warranty - With calibration certificate - With calibration certificate - With personnel training - Calibration on site with Certificate and sticker - With personnel training - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer

Power Requirements 115 V - 60 Hz

20	Air Oven,  * Temperature range: +5 °C above ambient temperature to +300 °C • Force convection  • Controller with LCD display • Electromechanical control of the exhaust air flap • 2 chrome-plated racks • Stackable • Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm • Ergonomic handle design • USB port for recording data  • Best energy efficiency on the market • Excellent temporal and spatial temperature accuracy • USB connection for recording data Technical Specifications Performance Data Temperature; Heating-up time to 150 °C [min]18; Recovery time after 30 seconds door open at 150 °C [min]4; Temperature fluctuation at 150 °C [± K] 0.3; Temperature range +10 °C above ambient temperature to [°C] 300; Temperature variation at 150 °C [± K]1.7; Air change data; Air change (approx.) at 100 °C [x/h]32 Electrical data; Nominal power [kW] 1.3 Phase (Nominal voltage)1~; Power frequency [Hz] 50/60 Rated Voltage [V] 230 Unit fuse [A] 6.3 Doors; Unit doors 1 Housing dimensions not incl. fittings and connections; Depth net [mm] 605; Height net [mm] 735 Width net [mm] 710 Internal Dimensions; Depth [mm] 385; Height [mm] 550 Width [mm] 550 Measures; Interior volume [L] 116 Load per rack [kg] 30; Net weight of the unit (empty) [kg]; Permitted load [kg] 150 Wall clearance back [mm] 160 Wall clearance sidewise [mm] 100 Environment-specific data 57; Energy consumption at 150 °C	20	Air Oven,  Temperature range: +5 °C above ambient temperature to +300 °C • Force convection  Controller with LCD display • Electromechanical control of the exhaust air flap • 2 chrome-plated racks • Stackable • Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm • Ergonomic handle design • USB port for recording data  Best energy efficiency on the market • Excellent temporal and spatial temperature accuracy • USB connection for recording data  Technical Specifications Performance Data Temperature; Heating-up time to 150 °C [min]18; Recovery time after 30 seconds door open at 150 °C [min]4; Temperature fluctuation at 150 °C [± K] 0.3; Temperature range +10 °C above ambient temperature to [°C] 300; Temperature variation at 150 °C [± K]1.7; Air change data; Air change (approx.) at 100 °C [x/h]32 Electrical data; Nominal power [kW] 1.3 Phase (Nominal voltage)1~; Power frequency [Hz] 50/60 Rated Voltage [V] 230 Unit fuse [A] 6.3 Doors; Unit doors 1 Housing dimensions not incl. fittings and connections; Depth net [mm] 605; Height net [mm] 735 Width net [mm] 710 Internal Dimensions; Depth [mm] 385; Height [mm] 550 Width [mm] 550 Measures; Interior volume [L] 116 Load per rack [kg] 30; Net weight of the unit (empty) [kg]; Permitted load [kg] 150 Wall clearance back [mm] 100 Wall clearance sidewise [mm] 100 Environment-specific data 57; Energy consumption at 150 °C
	Specific data 57; Energy consumption at 150 C [Wh/h]340; Sound-pressure level [dB(A)] 4 Fixtures; Number of shelves (std./max.) 2/5 - With one year warranty - With calibration certificate		[Wh/h]340; Sound-pressure level [dB(A)] 4 Fixtures; Number of shelves (std./max.) 2/5 - With one year warranty - With calibration certificate - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from
50	Cooled Incubator Technical Specifications: Performance Data Temperature Temperature range °C -10100 Temperature variation at 37 °C [± K] 0.2 Temperature fluctuation at 37 °C [± K] 0.1 Recovery time after 30 seconds door open at 37 °C [min] 2 Electrical data Rated Voltage [V] 230 Power frequency [Hz] 50 /60 Nominal power [kW] 0.7 Unit fuse [A] 10 Phase (Nominal voltage) 1~ Interior volume [L] 115 Net weight of the unit (empty) [kg] 105 Permitted load [kg] 50 Load per rack [kg] 20 Wall clearance back [mm] 100 Wall clearance sidewise [mm] 100 Internal Dimensions Width [mm] 600 Height [mm] 480 Depth [mm] 480 Depth [mm] 400 Inner doors 1 Unit doors 1 Housing dimensions not including fittings and connections Width net [mm] 835 Height net [mm] 1025 Depth net [mm] 650 Environment-specific data Energy consumption at 37 °C [Wh/h] 75 Sound-pressure level [dB(A)] 49 Number of shelves (std./max.) 2/5 Features *Temperature range: -10 °C to +100 °C • APT.line preheating chamber technology • Up to 30% lower energy consumption	50	Cooled Incubator Technical Specifications: Performance Data Temperature Temperature range °C -10100 Temperature variation at 37 °C [± K] 0.2 Temperature fluctuation at 37 °C [± K] 0.1 Recovery time after 30 seconds door open at 37 °C [min] 2 Electrical data Rated Voltage [V] 230 Power frequency [Hz] 50 /60 Nominal power [kW] 0.7 Unit fuse [A] 10 Phase (Nominal voltage) 1~ Interior volume [L] 115 Net weight of the unit (empty) [kg] 105 Permitted load [kg] 50 Load per rack [kg] 20 Wall clearance back [mm] 100 Wall clearance sidewise [mm] 100 Internal Dimensions Width [mm] 600 Height [mm] 480 Depth [mm] 400 Inner doors 1 Unit doors 1 Housing dimensions not including fittings and connections Width net [mm] 835 Height net [mm] 1025 Depth net [mm] 650 Environment-specific data Energy consumption at 37 °C [Wh/h] 75 Sound-pressure level [dB(A)] 49 Number of shelves (std./max.) 2/5 Features *Temperature range: -10 °C to +100 °C • APT.line preheating chamber technology • Up to 30% lower energy consumption

compared to the previous model compared to the previous model · Cooling with compressor cooling unit · Cooling with compressor cooling unit · Adjustable fan speed · Adjustable fan speed Controller time-segment and realtime Controller with time-segment and realtime with programming programming · Inner door made of tempered safety glass · Inner door made of tempered safety glass · 2 stainless steel racks · 2 stainless steel racks Stackable Stackable · Class 3.1 independent temperature safety · Class 3.1 independent temperature safety device (DIN 12880) with visual device (DIN 12880) with visual and acoustic alarm and acoustic alarm · Computer interface: Ethernet · Computer interface: Ethernet -5KVA AVR -5KVA AVR -With one year warranty -With one year warranty -With product training -With product training - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer Sample Homogenizer, 51 Sample Homogenizer, 51 Technical Specifications: Technical Specifications: Motor rating input 800 W Motor rating input 800 W Motor rating output 500 W Volume range (H2O) 0.001 - 2 I Motor rating output 500 W Volume range (H2O) 0.001 - 2 I Viscosity max. 5000 mPas Speed range 3000 - 25000 rpm Viscosity max. 5000 mPas Speed range 3000 - 25000 rpm Speed deviation 1 % Speed deviation 1 % Speed adjustment stepless Speed adjustment stepless Speed display LED Speed display LED Noise without element 75 dB(A) Noise without element 75 dB(A) Extension arm diameter 13 mm Extension arm diameter 13 mm Extension arm length 160 mm Extension arm length 160 mm Process type batch Process type batch Permissible ON time 100 % Permissible ON time 100 % Dimensions (W x H x D) 87 x 271 x 106 Dimensions (W x H x D) 87 x 271 x 106 mm Weight 2.5 kg Weight 2.5 kg Permissible ambient temperature 5 - 40 °C Permissible ambient temperature 5 - 40 °C Permissible relative humidity 80% (up to Permissible relative humidity 80% (up to 31°C), decreasing linearly to max. 50 (@40°C) 31°C), decreasing linearly to max. 50 (@40°C) Protection class according to DIN EN Protection class according to DIN EN 60529 IP 20 60529 IP 20 Voltage 220 - 240 V Voltage 220 - 240 V Frequency 50/60 Hz Frequency 50/60 Hz Power input 800 W Power input 800 W T25 Digital Package contains: T25 Digital Package contains: \* Disperser 1 \* Dispersing Element Ø18 mm 1 \* Dispersing Element Ø18 mm 1 \* Plate stand, H800 mm Plate stand, H800 mm 1 \* Boss head clamp, clamping range Ø6-1 \* Boss head clamp, clamping range Ø6-16 mm 16 mm -With one year warranty -With one year warranty -With calibration certificate -With calibration certificate -With product training -With product training - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer Training Certificates of Service Engineer from Manufacturer 52 Pipettors Set with Corresponding Tips and 2 units Linear Stand Single Channel Mechanical Pipettor 0.5 to 10ul - 728020 (1 unit) 10 to 100ul - 728050 (1 unit) 20 to 200ul - 728060 (1 unit) 100 to 1000ul - 728070 (1 unit) 500 to 5000ul - 728080 (1 unit) 1000 to 10,000ul - 728090 (1 unit) 8 channels Mechanical Pipettor 30-300ul - 728140 (1 unit) 10 ul tips - 790010 (1 Box) 200 ul tips – 790200 (1 Box) 350 ul tips – 790350 (1 Box) 1000ul tips – 791000 (1 Box) 5000ul tips – LH-780304 (50 tips per rack - 10 racks) 10,000ul tips – LH-780316 (bulks in 250) Accessory: Linear Stand – 725620 (2 units) Descriptions: - Easy volume adjustment with click stop system Large display for easy reading of volume
 For both right- and left-handed users - Color coded for easy matching of fitting tips - Materials have high chemical and UV resistance to secure long life-time of the pipette - Easy cleaning

52 Pipettors Set with Corresponding Tips and only with 3 parts needed to disassemble for deep cleaning, without any tools 2 units Linear Stand - Safe-cone filters available for models above 10µl for Single Channel Mechanical Pipettor extra protection when using non-filtered tips - With 0.5 to 10ul - 728020 (1 unit) 10 to 100ul - 728050 (1 unit) 20 to 200ul - 728060 (1 unit) light tip ejector - Fully autoclavable without the need for disassembly 100 to1000ul – 728070 (1 unit) 500 to 5000ul – 728080 (1 unit) - Superior Ergonomics - designed handle and finger hook 1000 to 10,000ul - 728090 (1 unit) Good Thermal Insulation to avoid transfer of heat 8 channels Mechanical Pipettor from hand to mechanical spring coil Pipetting force of 15N to avoid Repetitive Strain 30-300ul - 728140 (1 unit) Injury (RSI) Tips: - With click stop as volume locking 10 ul tips - 790010 (1 Box) 200 ul tips - 790200 (1 Box) 350 ul tips - 790350 (1 - Length 239 mm Box) 1000ul tips - 791000 (1 Box) 5000ul tips - LH-- Weight of 82 grams 780304 (50 tips per rack - 10 racks) 10,000ul tips -- with Liquid Handling Academy (Correct usage of LH-780316 (bulks in 250) Accessory: Linear Stand -Pipettor, Validation and Verification) 725620 (2 units) Descriptions: - with Calibration Certificate and Sticker - Certificate of Distributorship from Manufacturer Easy volume adjustment with click stop system Training Certificates of Service Engineer from - Large display for easy reading of volume - For both right- and left-handed users Manufacturer Color coded for easy matching of fitting tips 55 Babcock Fat Extraction set-up, - Materials have high chemical and UV resistance to secure long life-time of the pipette - Easy cleaning 5 selectable modes for centrifugation (Gerber test, Röse-Gottlieb, Babcock, Solubility and Free Mode) only with 3 parts needed to disassemble for deep Free Set-up (Free Mode) of - Speed/RCA\*\* (adjustable from 600 to cleaning, without any tools - Safe-cone filters available for models above 10µl for 1200 rpm, the corresponding RCA is shown extra protection when using non-filtered tips - With light tip ejector simultaneously) - Fully autoclavable without the need for disassembly - Superior Ergonomics - designed handle and finger \*\*RCA = Relative Centrifugal hook Acceleration Temperature (adjustable from amb. - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil temp. to 68°C) Pipetting force of 15N to avoid Repetitive Strain - Centrifugation time (adjustable from 1 to 99 minutes) Injury (RSI) Centrifugation drum of stainless steel - With click stop as volume locking - Security lid locking device - Length 239 mm Automatic unbalance switch off - Weight of 82 grams - Electrical brake - Connection: 230V/50...60 Hz/1200 VA Weight (empty): 26kg - Full height: 460 mm - Operation height: 370 mm - Speed range: 600...1200 UpM Temperature range: Amb. temperature to 68°C Includes 55 Babcock Fat Extraction set-up, Rotor (up to 18 Babcock-bottles) Babcockbucket - 18 5 selectable modes for centrifugation pcs - With one year warranty (Gerber test, Röse-Gottlieb, Babcock, - With calibration certificate Solubility and Free Mode) - With training Free Set-up (Free Mode) of With personnel training
 Calibration on site with Certificate and sticker
 Certificate of Distributorship from Manufacturer - Speed/RCA\*\* (adjustable from 600 to 1200 rpm, the - Training Certificates of Service Engineer from Manufacturer corresponding RCA is shown simultaneously) \*\*RCA = Relative Centrifugal Acceleration Temperature (adjustable from amb. temp. to 68°C) - Centrifugation time (adjustable from 1 to 99 minutes) - Centrifugation drum of stainless steel - Security lid locking device - Automatic unbalance switch off - Electrical brake - Connection: 230V/50...60 Hz/1200 VA Weight (empty): 26kg - Full height: 460 mm - Operation height: 370 mm - Speed range: 600...1200 UpM - Temperature range: Amb. temperature to 68°C Includes Rotor (up to 18 Babcock-bottles) Babcockbucket - 18 - With one year warranty - With calibration certificate - With training 56 Circulating Water Pump, Working Temperature Range °F -4° to 275°; Working Temperature Range °C -20° to 135°; Nominal Cooling Capacity @ +20C (W) 200 Reservoir Capacity (gallons) 1.85; Reservoir Capacity (liters) 7: Reservoir/Tank; Material Stainless Steel; Reservoir Cover Included; DuraTop

Yes; LidDock Yes; Cleanable Air Filter Yes; Working Access (L x W x D) (inches) 6.18 x 5.59 x 5 in; Working Access (L x W x D) (cm) 15.7 x 14.2 x 12.7 cm; Temperature Stability °F±0.13; Temperature Stability °C ±0.07°; Display 3.25" LCD; Display Resolution (Set) 0.1 Display Resolution (Read) 0.1; Pump Type Pressure; Pump Speed One; Process Connections 1/2" O.D.; Barbed Tubes Flammability Class (DIN 12876-1) I (NFL) Over-Temperature Protection; Failsafe Heater Control Yes; Low Liquid Level Protection Yes; Reservoir Drain Yes; Maximum Ambient; Temperature ° 95° Maximum Ambient Temperature °C 35° Overall Dimensions (L x W x H) (inches) 21.3 x 8.7 x 25.4in; Overall Dimensions (L x W x H) (cm) 54.1 x 22.1 x 64.5cm; Refrigerant R134a; Environmental Compliance RoHS, WEEE; Shipping Weight (pounds) 84.0; Shipping Weight (kilograms) 38.1; For 60 Hz Only: Maximum Pressure (psi) 2.3; Maximum Pressure (bar) 0.16 Maximum Pressure Flow Rate (gpm) 3.60 Maximum Pressure Flow Rate (I/min) 13.5 Cooling Capacity @ -20°C (W) 30 Cooling Capacity @ 0°C (W) 120 Cooling Capacity @ +20°C (W) 200 Cooling Capacity @ +20°C (W) 200 Included Hardware Fitting Kit for External **Applications** Heater Wattage 1100 Electrical Requirements (VAC/Hz/Ph/A) 120/60/1/12 Regulatory Approvals ETL - With one year warranty - With calibration certificate - With training

59 Infrared Moisture Balance,

Specifications:

Weighing capacity: 200 g; Repeatability, average:

-for initial sample weight approx. > 1 g: ± 0.2 %

-for initial sample weight approx. > 5 g: ± 0.05 % Readability: 1 mg, 0.01 % Typical sample quantity: 5 – 15 g Result display: Moisture content in %M and g | dry weight in %S and g | ATRO in %M/S Temperature range and settings: 40°C–160°C, stand-by temperature selectable from 40–100°C in increments of 1°C Sample heating: Infrared radiation by an AURI heater, 600 W; Heating programs: Standard drying, gentle drying Shutoff parameter Optional:—Fully automatic—Semiautomatic mg (1–50 mg|5–300 sec.)—Semiautomatic % (0.1–5.0 %|5–300 sec.)—Timer settings (02:00–99.59 min.)—Manual; Access to sample

Operator guidance features:— Intuitive user interface, including touch screen and easyto-understand menu guidance— Weighingin help and target value attainment function— Curve display; Methods: 100 methods saved in non-volatile memory:

methods saved in non-volatile memory; Method development: Assistant software guides users to develop new methods in approx. 3 easy test cycles; Methods management: Method menu with file management option, generation of a

chamber: Removable hood with wide opening angle, SoftClose mechanism

Circulating Water Pump,
Working Temperature Range °F -4° to
275°; Working Temperature Range °C -20°
to 135°; Nominal Cooling Capacity @
+20C (W) 200 Reservoir Capacity
(gallons) 1.85; Reservoir Capacity (liters)
7; Reservoir/Tank; Material Stainless

(gallons) 1.85; Reservoir Capacity (liters) 7; Reservoir/Tank; Material Stainless Steel; Reservoir Cover Included; DuraTop Yes; LidDock Yes; Cleanable Air Filter Yes; Working Access (L x W x D) (inches) 6.18 x 5.59 x 5 in; Working Access (L x W x D) (cm) 15.7 x 14.2 x 12.7 cm;

Temperature Stability °C ±0.07°; Display 3.25" LCD; Display Resolution (Set) 0.1; Display Resolution (Set) 0.1; Display Resolution (Read) 0.1; Pump Type Pressure; Pump Speed One; Process Connections 1/2" O.D.; Barbed Tubes

Flammability Class (DIN 12876-1) I
(NFL) Over-Temperature Protection;
Failsafe Heater Control Yes; Low Liquid
Level Protection Yes; Reservoir Drain
Yes; Maximum Ambient; Temperature °F
95° Maximum Ambient Temperature °C

35° Overall Dimensions (L x W x H) (inches) 21.3 x 8.7 x 25.4in; Overall Dimensions (L x W x H) (cm) 54.1 x 22.1 x 64.5cm; Refrigerant R134a;

Environmental Compliance RoHS, WEEE; Shipping Weight (pounds) 84.0; Shipping Weight (kilograms) 38.1; For 60 Hz Only: Maximum Pressure (psi) 2.3;

Maximum Pressure (bar) 0.16

Maximum Pressure Flow Rate (gpm) 3.60 Maximum Pressure Flow Rate (l/min) 13.5 Cooling Capacity @ -20°C (W) 30

Cooling Capacity @ 0°C (W) 120 Cooling Capacity @ +20°C (W) 200 Cooling Capacity @ +100°C (W) 200

Included Hardware Fitting Kit for External Applications

Heater Wattage 1100
Electrical Requirements (VAC/Hz/Ph/A)

120/60/1/12 Regulatory Approvals ETL

- With one year warranty

With one year warranty
 With calibration certificate

- With training

- With personnel training

- Calibration on site with Certificate and sticker

- Certificate of Distributorship from Manufacturer

- Training Certificates of Service Engineer from Manufacturer

59 Infrared Moisture Balance,

Specifications:

Weighing capacity: 200 g; Repeatability,

average:

-for initial sample weight approx. > 1 g: ±

0.2 %

-for initial sample weight approx. > 5 g: ± 0.05 % Readability: 1 mg, 0.01 % Typical sample quantity: 5 – 15 g Result display: Moisture content in %M and g | dry weight in %S and g | ATRO in %M/S Temperature range and settings: 40°C–160°C, stand-by temperature

40°C– 160°C, stand-by temperature selectable from 40–100°C in increments of 1°C Sample heating: Infrared radiation by an AURI heater, 600 W; Heating programs: Standard drying, gentle drying Shutoff parameter Optional:– Fully automatic– Semiautomatic mg (1–50 mg|5–300 sec.)– Semiautomatic % (0.1–5.0 %|5–300 sec.)– Timer settings (02:00–99.59 min.)– Manual; Access to sample chamber: Removable hood with wide

opening angle, SoftClose mechanism Operator guidance features:- Intuitive user

method library, up to 100 methods; Data interface, including touch screen and easyto-understand menu guidance- Weighingin help and transfer: SD card, method import and export function; Sample forceps: Easy-tohandle target value attainment sample dish Performance test: function- Curve display; Methods: 100 Menu function to test the device's methods saved in non-volatile memory; repeatability using the ReproEasy pad Method development: Assistant software Memory for data storage: Results are saved guides users to develop new methods in for the last 999 measurements Status light: approx. 3 easy test cycles; Methods Displays the status "analysis running/ START", "analysis completed/ STOP" or management: Method menu with file management option, generation of a method library, up to 100 methods; Data "analysis error" Sample inspection: LED-illuminated sample chamber, inspection window with grid above the hood; Mini USB – Direct data transfer to Microsoft® Windows transfer: SD card, method import and export function; Sample forceps: Easy-tohandle sample dish Performance test:

Menu function to test the device's programs without any additional software— Programmable data output interval— Data transfer protocols SBI, table format, text repeatability using the ReproEasy pad Memory for data storage: Results are saved for the last 999 measurements Status light: format; Frequency: 50/60 Hz Displays the status "analysis running/ With one year warranty
 With calibration certificate START", "analysis completed/ STOP" or "analysis error" - With product training Sample inspection: LED-illuminated sample chamber, inspection window with grid above the hood; Mini USB - Direct data transfer to Microsoft® Windows programs without any additional software-Spectrophotometer, Wavelength Range: 190 - 1100 nm Monochromator: 4 nm Monochromator: Single beam Littrow 61 Programmable data output interval- Data transfer protocols SBI, table format, text format; Frequency: 50/60 Hz - With one year warranty type, grating 1200 lines/mm
Wavelength Accuracy: ±0.8 nm
Wavelength Repeatability: ±0.5 nm
Wavelength Calibration: automatic at start - With calibration certificate - With product training With product training
 With personnel training
 Calibration on site with Certificate and sticker
 Certificate of Distributorship from Manufacturer
 Training Certificates of Service Engineer from Light Source: Tungsten Halogen/Deuterium Lamp Detector: Solid Silicon Photodiode Manufacturer Spectrophotometer,
Wavelength Range: 190 - 1100 nm
Monochromator: 4 nm
Monochromator: Single beam Littrow Photometric Readout: 1/4 VGA 320X240 61 pixels backlit LCD Photometric Range: 0 - 200%T -0.3 - 3.0A 0 - 9999C Photometric Accuracy: ±0.5%T Zero Drift: < 0.002A per hour after warmup Baseline type, grating 1200 lines/mm Wavelength Accuracy: ±0.8 nm
Wavelength Repeatability: ±0.5 nm Flatness: ±0.004A
Stability: 0.002A/h at 500 nm
Stray Light:< 0.15%T
Scanning Speed: Hi, Med., Low. Max. Wavelength Calibration: automatic at start Light Source: Tungsten Halogen/Deuterium Lamp 1000 nm/min Detector: Solid Silicon Photodiode Standard Sample Holder: 4-position Cell Photometric Readout: 1/4 VGA 320X240 Holder pixels backlit LCD Analogue/Digital Output: Digital, RS232 Serial, Centronics Parallel Photometric Range: 0 - 200%T -0.3 - 3.0A Dimensions: 550(L) x 420(W) x 270(H) 0 - 9999C Photometric Accuracy: ±0.5%T mm Weight: 20 kg / 44 lbs Zero Drift: < 0.002A per hour after warmup Baseline Shipping Dimensions: Flatness: ±0.004A Stability: 0.002A/h at 500 nm Stray Light:< 0.15%T 390(H) mm Shipping Weight: Scanning Speed: Hi, Med., Low. Max. Power Requirements: 230V/50Hz, switchable 1000 nm/min Operating Temperature Room temperature: Standard Sample Holder: 4-position Cell 22 ±2°C Holder Humidity Range: less than 85% Analogue/Digital Output: Digital, RS232 Includes: - AVR 5KVA Serial, Centronics Parallel Dimensions: 550(L) x 420(W) x 270(H) WITH Laptop Specifications mm Weight: 20 kg / 44 lbs Shipping Dimensions: 8-Core CPU 390(H) mm 8-Core GPU Shipping Weight: 8GB Unified Memory Power Requirements: 256GB SSD Storage footnote 1 230V/50Hz, switchable 16-core Neural Engine Operating Temperature Room temperature: 13.6-inch Liquid Retina display with True 22 ±2°C Tone<sup>2</sup> Humidity Range: less than 85% 1080p FaceTime HD camera Includes AVR 5KVA MagSafe 3 charging port Two Thunderbolt / USB 4 ports WITH Laptop Support for one external display Specifications Magic Keyboard with Touch ID 8-Core CPU Force Touch trackpad 8-Core GPU 30W USB-C Power Adapter 8GB Unified Memory 256GB SSD Storage footnote <sup>1</sup> M2 brings incredible performance and capability so you can blaze through everyday activities, multitask across apps, 16-core Neural Engine 13.6-inch Liquid Retina display with True pursue your creative passions, and play your favorite games Tone<sup>2</sup> 1080p FaceTime HD camera

Run multiple apps and edit thousands of photos or 4K video . Up to 12x faster than fastest Intel-based MacBook Air footnote 3 Supports one external display

- With one year warranty
- With calibration certificate
- With personnel training

MagSafe 3 charging port Two Thunderbolt / USB 4 ports Support for one external display Magic Keyboard with Touch ID Force Touch trackpad 30W USB-C Power Adapter M2 brings incredible performance and capability so you can blaze through everyday activities, multitask across apps, pursue your creative passions, and play your favorite games Run multiple apps and edit thousands of photos or 4K video Up to 12x faster than fastest Intel-based MacBook Air footnote 3 Supports one external display - With one year warranty - With calibration certificate

- With personnel training
   Calibration on site with Certificate and sticker
- Certificate of Distributorship from Manufacturer Training Certificates of Service Engineer from Manufacturer

62 Titration Apparatus,

Extremely high chemical resistance; Smooth and light to operate with soft touch operating wheels; Media recirculation system that allows unused media to be recovered from the device and returned to the bottle; 360° rotating dispensing head; Universal connector at the back of the unit for drying tubes and filters; Easy to attach aspiration tube with a secure threaded connection; User replaceable valves; Supplied with UV-protected replacement window for light sensitive media protection Long life CR2032 battery; Easy custom adjustment for various liquids; Wide range of accessories; Autoclavable liquid pathway; Wide range of adapters included to fit most common bottle sizes; Weight 844 g (20 mL); Length 260 mm (20 mL); Autoclavability Autoclavable liquid pathway (121 oC, 20 min, 1 bar/100 kPa); Threaded bottle fitting A45; Bottle adapters included A32, A38, S40 Battery CR2032; Limitations The accuracy and precision values are valid under the controlled conditions described in ISO 8655.; Test temperature: 15 oC to 30 oC +/- 0,5 oC Relative humidity: > 50%; Transportation conditions Temperature: 0 oC to 40 oC; Long-term storage conditions Temperature: 0 oC to 40 oC; Chemical resistance Information available on request; Materials Piston: Compound Halar (ECTFE) | Cylinder: Borosilicate glass 3.3 Valve block: Halar (ECTFE); Valve mantle: Halar (ECTFE) | Valve ball:; Borosilicate glass 3.3 | Valve seat: Borosilicate glass 3.3; Valve spring: Hastelloy | Tubes: FEP | Sealing rings: PTFE; Nominal Volume(ml): 50; Readability(ml): 0.01; Test Volume(ml): 50 Systematic Error\* [%]: 0.2 Systematic Error\* [mL]: 0.10 Random Error\* [%]: 0.1 Random Error\* [mL]: 0.05 Includes:

- 1 Liter Amber Bottle
- With one year warranty
   With calibration certificate
- With personnel training

62 Titration Apparatus,

Extremely high chemical resistance; Smooth and light to operate with soft touch operating wheels; Media recirculation system that allows unused media to be recovered from the device and returned to the bottle; 360° rotating dispensing head; Universal connector at the back of the unit for drying tubes and filters; Easy to attach aspiration tube with a secure threaded connection; User replaceable valves; Supplied with UV-protected replacement window for light sensitive media protection Long life CR2032 battery; Easy custom adjustment for various liquids; Wide range of accessories; Autoclavable liquid pathway; Wide range of adapters included to fit most common bottle sizes; Weight 844 g (20 mL); Length 260 mm (20 mL); Autoclavability Autoclavable liquid pathway (121 oC, 20 min, 1 bar/100 kPa); Threaded bottle fitting A45; Bottle adapters included A32, A38, S40 Battery CR2032; Limitations The accuracy and precision values are valid under the controlled conditions described in ISO 8655.; Test temperature: 15 oC to 30 oC +/- 0,5 oC Relative humidity: > 50%; Transportation conditions Temperature: 0 oC to 40 oC; Long-term storage conditions Temperature: 0 oC to 40 oC; Chemical resistance Information available on request; Materials Piston: Compound Halar (ECTFE) | Cylinder: Borosilicate glass 3.3 | Valve block: Halar (ECTFE); Valve mantle: Halar (ECTFE) | Valve ball:; Borosilicate glass 3.3 | Valve seat:
Borosilicate glass 3.3; Valve spring:
Hastelloy | Tubes: FEP | Sealing rings: PTFE; Nominal Volume(ml): 50; Readability(ml): 0.01; Test Volume(ml): 50 Systematic Error\* [%]: 0.2 Systematic Error\* [mL]: 0.10 Random Error\* [mL]: 0.05 Includes

- 1 Liter Amber Bottle
- With one year warranty
- With calibration certificate
- With personnel training
- Calibration on site with Certificate and sticker
- Certificate of Distributorship from Manufacturer
- Training Certificates of Service Engineer from Manufacturer

Vortex Mixer,   Type of movement orbital   Typ		The state of the s			
Shaking stroke 4.5 mm Permissible analysing weight (incl.  Motor rating jouty 1 to W Motor rating jouty 1 to W Motor rating jouty 1 to W Permissible on time 100 % Speed mit (adjustable) 200 pm Speed display scale Operating mode continuous operation Touch function year Northwest of microtizer plates yes Number of microtizer plates yes Number of microtizer plates 1 Dimensions (W x 1 x 2) 148 x 63 x 205 mm Weight 2.9 kg Permissible and the properties 5 - 40 °C Permissible and the properties of 5 - 40 °C	63	Vortex Mixer,		63	Vortex Mixer,
Shaking stroke 4.5 mm Permissible analysing weight (incl.  Motor rating jouty 1 to W Motor rating jouty 1 to W Motor rating jouty 1 to W Permissible on time 100 % Speed mit (adjustable) 200 pm Speed display scale Operating mode continuous operation Touch function year Northwest of microtizer plates yes Number of microtizer plates yes Number of microtizer plates 1 Dimensions (W x 1 x 2) 148 x 63 x 205 mm Weight 2.9 kg Permissible and the properties 5 - 40 °C Permissible and the properties of 5 - 40 °C		Type of movement orbital			Type of movement orbital
Permissible shaking weight (incl. attachment) 0.5 kg Motor rating input 10 W Permissible ON time 100 % Speed min (adjustable) 200 pm Speed range 0.3000 pm Speed range 100 pm Speed rang					
attachment) 0.5 kg Motor rating injust 1 W Permissable ON time 100 % Speed min (adjustable) 200 rpm Speed display scale Operating motor continuous operation Working with microter plates yes Number of microter plates 1 Dimensions (W x H x D) 148 x 6 x 205 min with microter plates yes Number of microter plates 1 Dimensions (W x H x D) 148 x 6 x 205 min with microter plates yes Number of microter plates 1 Dimensions (W x H x D) 148 x 6 x 205 min with microter plates yes Number of microter plates 1 Dimensions (W x H x D) 148 x 6 x 205 min with microter plates yes Number of microter plates 1 Dimensions (W x H x D) 148 x 6 x 205 min with with yes yes Protection class according to DIN EN 80029 IP 2 x 200 DC Voltage 24 V= Current consumption 800 mA With one year warranty - With calibration certificate  40 Differental Scanning Calorimeter, Specifications This product was developed to provide a general-purpose DSC with a broad temperature range (160 - 600°C) for all emperature accuracy yes a consuming of the calibration developed to provide a general-purpose DSC with a broad temperature angue (160 - 600°C) for all chemical resistance.  Temperature range = 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates 0.001 up to 100°C (with appropriate cooling option) up to +600°C Heating and cooling rates 0.001 up to 100°C (with appropriate cooling option) up to +600°C Heating and cooling rates 0.001 up to 100°C (with appropriate cooling option) up to +600°C Heating and cooling rates 0.001 up to 100°C (with appropriate cooling option) up to +600°C (with appr					
Motor rating input 10 W Motor rating output 8 W Permissible ON time 100 % Speed range of 3000 pm Speed display scale Operating mode continuous operation Working with microtiter plates yes Number of microtiter plates 19 Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2 8 yg Protection class according to DIN EN 50529 IP 21 Voltage 10 x 900 DV Power input 20 W DC Voltage 24 ve Outrent consumption 800 mA MS 31 Standard attachment MS 3.3 Universal attachment MS 1.21 One-hand insert  - With calibration curtificate  44 Differential Scanning Galorimeter, Specifications; This product was developed by privide a specification or stream of the producibility of temperature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility operature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility operature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility operature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility operature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility operature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility operature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility operature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable beasilem and high regorducibility of the properature range (-180 - 800°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high regorducibility of the properature range (-1					
Motor rating output 8 W Permissible ON time 100 % Speed min (adjustable) 200 rpm Speed display scale Operating mode continuous operation Touch function yes Working with microtier plates yes Working with microtier plates yes Working with microtier plates yes Dimensions (W.x. H. x. D) 148 x 63 x 205 mm Weight 2 8 kg Permissible entitle temperature 5 - 40 °C Permissible entitle temperature 6 - 40 °C Permissi					
Permissible ON time 100 %   Speed range 0* 3000 rpm					
Speed min (adjustable) 200 rpm Speed display scale Operating mode continuous operation Operation mode operation Operation operation Operation mode operation Operation mode operation Operation operation Operation mode operation O					
Speed range 6 - 3000 rpm Speed display scale Operating mode continuous operation Touch function yes Number of microtiter plates 1 Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2 s kg Permissible ambient temperature 5 - 40 °C Protection class according to DIN EN 80529 IP 21 Voltage 100 - 240 V Frequency 50500 Hz Power input 20 W Current consumption 800 mA Includes: MS 3.1 Standard attachment MS 3.3 Universal attachment MS 1.21 One-hand insert Insert Insert Insert Insert of the service of t					Permissible ON time 100 %
Speed display scale Operating mode continuous operation Touch function yes Number of microtize pities sy se Number of microtize pities s 1 Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2 8 kg Permissible ambient temperature 5 - 40 °C Permissible industry brought of the State		Speed min (adjustable) 200 rpm			Speed min (adjustable) 200 rpm
Operating mode continuous operation Touch function yes Working with microtiter plates yes Working with with with with with a propagation to the cell guarantees in microtiter plates yes Working with microtiter plates yes Working with win with carl the presented of the presented of the presented o		Speed range 0 - 3000 rpm	1.1		Speed range 0 - 3000 rpm
Operating mode continuous operation Touch function yes Working with microtiter plates yes Working with with with with with a propagation to the cell guarantees in microtiter plates yes Working with microtiter plates yes Working with win with carl the presented of the presented of the presented o		Speed display scale	11		Speed display scale
Touch function yes Working with microtiter plates 1 Dimensions (W x H x D) 148 x 53 x 205 Demissions (W x H x D) 148 x 20 x 205 Demissions (W x H					
Working with microtiter plates yes Number of microtiter plates 1 Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2 & Ng Protection class according to DIN EN 80529 IP 21 Voltage 100 - 240 V Frequency 5000 Hz DC Voltage 24 V* Current consumption 500 mA Includes: MS 3.1 Standard attachment MS 3.3 Universal attachment MS 121 One-hand insert insert insert insert  A Standard attachment MS 121 One-hand insert insert insert  A Differental Scanning Calorimeter, Specifications. This product was developed to provide a general-purpose DSC with a broad temperature range (-180 - 600°C) for all common applications. Furthermore, stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Brown of the conception of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees maximum mechanical and chemical resistance.  Brown of the cell guarantees of this propoducibility.  The design allows manual and automatic operation. The conception of					
Number of microtter plates 1 Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2 s kg Permissible ambient temperature 5 - 40 °C Beautiful temperature 5 - 40 °C Frequency 5050 Hz Power input 20 W DC Voltage 10 - 240 V Frequency 5050 Hz Power input 20 W DC Voltage 24 V= DC Voltage 25 V= DC Voltage 26 V= DC Voltage 26 V= DC Voltage 27 V= DC Voltage 27 V= DC Voltage 27 V= DC Voltage 28 V= DC Voltage					
Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2.9 kg Permissible anablem temperature 5 -40 °C Permissible anablem temperature face for the face of the fa					
mm Weight 2.9 kg Permissible arbient temperature 5 - 40 °C Permissible arbient set 5 - 40 °C Voltage 100 °C Permissible arbient set 5 - 40 °C Voltage 100 °C Permissible arbient set 5 °C Volt Voltage 100 °C Permissible arbient set 5 °C Volt Voltage 100 °C Permissible arbient set 5 °C Volt Voltage 100 °C Permissible arbient set 5 °C Volt Voltage 100 °C Permissible arbient set 5 °C Volt Voltage 100 °C Permis					
Permissible analytic multidly 80 % Protection class according to DIN EN 80529 if 21 Votinge 10, 23, 9150 hz Power input 20 W DC Votinge 24 V= Current consumption 800 mA Includes: MS 3.1 Standard attachment MS 1.3 Universal attachment MS 1.21 One-hand with a standard attachment MS 1.21 One-hand with new year warranty - With calibration certificate  With calibration certificate  All Differental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 °C (with appropriate cooling potion) up to 4-800°C Heating and cooling rates. 0.001 up to Calibration materials included Calibration materials: included Calibration materi					
Permissible relative humidity 80 % Protection class according to DIN EN 80529 IP 21 Votage 100 - 240 V Prequency 508 V De Votage 24 V P Current consumption 800 mA Includes:  MS 3.1 Standard attachment MS 3.3 Universal attachment MS 3.3 Universal attachment MS 3.3 Universal attachment MS 1.21 One-hand insert  - With one year warranty  - With calibration certificate  B4 Differental Scanning Calorimeter, Specifications:  Specifications:  Specifications: Specifi					
Protection class according to DIN EN 80529 IP 21 Voltage 100 - 240 V Frequency 50060 Hz Proverinput 20 W DO Voltage 24 Vs Goding 24 Vs		Permissible ambient temperature 5 - 40 °C			Permissible ambient temperature 5 - 40 °C
60529   P 21   Voltage 100 - 240 V   Frequency 5006 Hz   Power input 20 W   DC Voltage 24 Vs   Voltage 100 - 240 V   Frequency 5006 Hz   Power input 20 W   DC Voltage 24 Vs		Permissible relative humidity 80 %			Permissible relative humidity 80 %
60529   P 21   Voltage 100 - 240 V   Frequency 50060 Hz   Power input 20 W   DC Voltage 24 V=		Protection class according to DIN EN			Protection class according to DIN EN
Voltage 100 - 240 V Frequency 50/00 Hz Power input 20 W DC Voltage 24 VP Current consumption 800 mA Includes:  But attachment MS 3.3 Universal attachment MS 3.3 Universal attachment MS 1.21 One-hand insert - With one year warranty - With calibration certificate  Frequency 50/06 Mz  Power input 20 W DC Voltage 24 VP Current consumption 800 mA Includes:  But attachment MS 1.21 One-hand insert - With one year warranty - With calibration certificate  Frequency 50/06 Mz  Power input 20 W DC Voltage 24 VP Current consumption 800 mA Includes:  But attachment MS 3.3 Universal attachment MS 1.21 One-hand insert - With one year warranty - With calibration certificate - With personnel training - Calibration inserting - With one year warranty - With calibration certificate - With personnel training - Calibration inserting - Calibration inserting - Calibration inserting - With one year warranty - With calibration certificate - With personnel training - Calibration inserting - Calibration inserting - Calibration inserting - Calibration inserting - With calibration inserting - Calibration inserting - Calibration inserting - With calibration inserting - Calibration inserting - With one year warranty - With calibration inserting - Calibration inserting - With calibration inserting - With calibration inserting - With calibration inserting - Calibration inserting - With calibration inserting - With calibration inserting - Calibration inserting - With calibration inserting - With calibration inserting - With calibration inserting - With calibration inserting - Calibration inserting - With calibr					
Frequency 50/60 Hz Power input 20 W DC Voltage 24 V= Current consumption 800 mA Includes: MS 3.1 Standard attachment MS 1.2 One-hand with one year warranty - With none year warranty - With calibration certificate  ### Differential Scanning Calorimeter, Specifications: This product year of the provide a temperature range (180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature range (160 °C with Temperature accuracy: #-0.2K Temperature accuracy: #-0.2K Temperature accuracy: #-0.2K Temperature accuracy: #-2.5 up to #-2.50mW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: #-12.5 up to 19-2.50mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard attachment MS 1.2 One-hand includes: -With noneyear warranty -With calibration warranty -With calibration warranty -With calibration on site with Certificate and sticker -Certificate of Distributorship from Manufacturer -Training Certificates of Service Engineer from Manufacturer -Training Certificates of Service Engi		A STATE OF THE PROPERTY OF THE			
Power input 20 W DC Voltage 24 V= Current consumption 800 mA Includes: MS 3.1 Standard attechment MS 1.21 One-hand insert - With ne year warranty - With ne year warranty - With ne year warranty - With calibration certificate  B4 Differental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (180 – 600°C) for all common applications. Furthermore, stable baseline and high reproducibility The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature range: (180°C) (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°Chim Temperature range: 4-2.5 up to +4-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy; 4-0.02K Temperature accuracy; 4-0.02K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°Chim Measuring range: 4-2.5 up to +4-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature scouracy; 4-0.02K Temperature accuracy; 4-0.02K Temperature accuracy; 4-0.02K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°Chim 300°Chim 300°Chim 300°Chim 400°Chim 400°Chi					
DC Voltage 24 V= Current consumption 800 mA Includes:  MS 3.1 Standard attachment MS 1.2 1 One-hand Insert - With net year warranty - With calibration certificate  Differental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad general-purpose DSC with a broad common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature accuracy: #- 0.2K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: #- 0.2K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: #- 0.2K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: #- 0.2K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: #- 0.2K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: #- 0.2K Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: #- 0.2K Temperature range: 180°C (with appro					
Current consumption 800 mA Includes:  MS 3.1 Standard attachment MS 1.21 One-hand insert  - With one year warranty - With calibration certificate  - With one year warranty - With calibration certificate  - With one year warranty - With calibration certificate - With one year warranty - With calibration on site with one year warranty - With calibration on site with one year warranty - With calibration on site with one year warranty - With one			1		
Includes:  MS 3.1 Standard attachment MS 3.3 Universal attachment MS 1.21 One-hand insert  - With one year warranty - With calibration certificate  With personnel training - Calibration on site with Certificate and sticker - Certificate of Districticate of Districtic Common applications. Furthermore, emphasis was placed on an e					
MS 3.1 Standard attachment MS 3.3 Universal attachment MS 1.2 One-hand insert  - With one year warranty - With calibration certificate  - With one year warranty - With calibration certificate - With one year warranty - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer - Training Certificates of		1 2 2 2 2			
Universal attachment MS 1.21 One-hand insert  - With one) year warranty - With calibration certificate  B4 Differental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  B50 C/min Temperature accuracy: +/- 0.2K Temperature accuracy: +/- 0.2K Temperature range: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature renge: -180 °C (with appropriate cooling option) with the cooling option with the cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °		Includes:			E E2 76
Universal attachment MS 1.21 One-hand insert  - With one) year warranty - With calibration certificate  B4 Differental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  B50 C/min Temperature accuracy: +/- 0.2K Temperature accuracy: +/- 0.2K Temperature range: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature renge: -180 °C (with appropriate cooling option) with the cooling option with the cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °C (with appropriate cooling option) up to +600°C heating and cooling rates: 0.001 up to 300°C/min Temperature renge: -180 °		MS 3.1 Standard attachment MS 3.3			MS 3.1 Standard attachment MS 3.3
insert - With one year warranty - With calibration certificate  With calibration certificate  Differential Scanning Calorimeter, Spacifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 - 600°C) or all comparists was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature range: -180°C (with appropriate cooling option) up to -4500°C Heating and cooling rates: 0.00 tup to 300°C/min Temperature recursor; +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 1.6 million points Resolution: 0.03 µW Almospheres: inert, oxidizing (static, dynamic) Galibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.30 µW Almospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Individual cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy					
- With one year warranty - With calibration certificate  - With calibration certificate  - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer  - Differental Scanning Calorimeter, - Specifications: - This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 60°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance Temperature range: -180°C (with appropriate cooling pates: 0,001 up to 300°C/min - Temperature accuracy: +/- 0.2K - Digital Resolution: 18.8 million points - Resolution: 19.8 million points - R	-	Street and the street of the s			Programme Control of the Control of
- With calibration certificate  - With passonnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer - Training Certificate and sticker - Seperifications: Probable agence and pagence purpose Dec with a broad temperature accuracy in the Cell Optical agence and pagence purpose Dec with a broad temperature accuracy in the Cell Optical temperature accuracy in the Cell Optical temperature accuracy in the Cell Optical temperature accuracy		1 1 1 1 TO			117773
Figure 1   Figure 2   Figure 2   Figure 3			1.1		
6.4 Differental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 - 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy; +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 16.8 million points Resolution: necommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and dooling rates: 0,001 up to 300°C/min Temperature accuracy; +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 16.8 mil		- With Calibration Certificate			
- Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer - Specifications:  This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature precision: +/- 0.2K Temperature precision: +/- 0.2K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature ange: -					
Sufferental Scanning Calorimeter, Specifications:					
Manufacturer   Specifications:   This product was developed to provide a general-purpose DSC with a broad temperature range (+180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.   Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min   Temperature race; -4 - 0.02K   Digital Resolution: 16.8 million points   Resolution: recommended 6-month interval   Temperature precision: +4 - 0.02K   Digital Resolution: 16.8 million points   Resolution: 0.03 µW   Atmospheres: inert, oxidizing (static, dynamic)   Measuring range: +1-2.5 up to +4-250mW   Calibration: recommended 6-month interval   Temperature precision: +4 - 0.02K   Digital Resolution: 1.0.8 million points   Resolution:					- Certificate of Distributorship from Manufacturer
Bifferental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: coommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.0ZK Digital Resolution: 16.8 million points Resolution: 0.3 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					- Training Certificates of Service Engineer from
Bifferental Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature range: 180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: coommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.0ZK Digital Resolution: 16.8 million points Resolution: 0.3 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					Manufacturer
Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature range: -180°C (with appropriate cooling option) up to +800°C Heating and cooling rates: 0.001 up to 300°C/min Temperature recision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 16.8 million points Resolution: 16.8 million points Resolution: 16.9 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: -18.0°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature accuracy: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: -12.5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 - L63/PRESSANDTOOL – Aluminum	64	Differental Scanning Calorimeter		64	Differental Scanning Calorimeter
This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature accuracy: +/- 0.2K Digital Resolution: 18.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to 600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 18.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration: recommended 6-month interval Temperature accuracy: +/- 0.02K Digital Resolution: 18.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes:  -AI Standard crucible with lid 6x1,5mm 4Qul (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 - L63/PRESSANDTOOL - Aluminum	04			0.1	
general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling option) up to +600°C Heating and cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature accuracy: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.33 µW Atmospheres: inert, oxidizing (static, dynamic)  Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes:  -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable)  - Sample press for crimping crucibles Incl. tool for 30293043, 30293044  -L63/PRESSANDTOOL - Aluminum					
temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min  Temperature recision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +1-2,5 up to +/-250mW Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate					
common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min  Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution moterials: included Calibration materials: included Calibration recommended 6-month interval Temperature range: -180°C (with appropriate cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling aption) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: +/-2,5 up to +/-250mW Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 4Qul (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum	11				
emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min  Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.014 Up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0.001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with					
stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min  Temperature precision: +/- 0.02K Digital Resolution: 10.3 µW Atmospheres: inert, oxidizing (static, dynamic) (Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 10.3 µW Atmospheres: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature raccuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature raccuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling					
The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling operation. The appropriate cooling operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling: 18.6 million points Resolution: 0.03 µW  Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +1/2.5 up to +1/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +1/- 0.2K Temperature precision: +7 - 0.2K Temperature accuracy: +1/- 0.2K Temperature accuracy: +1/- 0.2K Temperature accuracy: +1/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling: 18.6 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +1/-2.5 up to +1/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes:  -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 - L63/PRESSANDTOOL - Aluminum					
operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min  Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L639/PRESSANDITOOL – Aluminum		stable baseline and high reproducibility.			stable baseline and high reproducibility.
operation. The conception of the cell guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min  Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to -600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L639/PRESSANDITOOL – Aluminum		The design allows manual and automatic			The design allows manual and automatic
guarantees maximum mechanical and chemical resistance.  Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min  Temperature accuracy: +/- 0,2K Temperature precision: +/- 0,02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0,2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0,02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0,2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0,2K Temperature accuracy: +/- 0,02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L639/PRESSANDTOOL - Aluminum					operation. The conception of the cell
chemical resistance. Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 0.6 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to 500°C/min Temperature range: -180°C (with appropriate cooling option) up to 500°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to 600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to 600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to 4600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: -1-0.2K Temperature range: -180°C (with appropriate cooling option) up to 4000°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to 4-250mW Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L639/PRESSANDTOOL - Aluminum		- 14차 #14 10 10 10 10 10 10 10 10 10 10 10 10 10			
Temperature range: —180°C (with appropriate cooling potion) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: —180°C (with appropriate cooling potion) up to 1600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: —180°C (with appropriate cooling potion) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: —180°C (with appropriate cooling potion) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: —180°C (with appropriate cooling potion) up to 4-f00°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.2K Temperature precision: +/- 0.2K Temperature range: —180°C (with appropriate cooling potion) up to 4-f00°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.2K Temperature precision: +/- 0.2K Temperature range: —180°C (with appropriate cooling potion) up to 4-f00°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.2K Temperature precision: +/- 0.2K Temperature range: —180°C (with appropriate cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: —180°C (with appropriate cooling rates: 0,002 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: —180°C (with appropriate cooling rates: 0,002 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: —180°C (with appropriate cooling rates: 0,002 up to 300°C/min Temperature range: —180°C (with appropriate cooling rates: 0,002 up to 300°C/min Temperature range: —180°C (with appro					
appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0,2K Temperature precision: +/- 0,02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0,2K Temperature precision: +/- 0,02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					
Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 10.30 µW Atmospheres: inert, oxidizing (static, dynamic)  Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to becond the propriate cooling option) up to becond the propriate cooling option in the preval and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes:  -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					
300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: ecommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 4-2,5 up to +/-250mW Calibration materials: included Calibration: 16.8 million points Resolution: 16.8 million points Resolutio					
Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.2K Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.2K Temperature precision: -/- 0.2K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum			1 1		
Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044 and 30293046 -L63/PRESSANDTOOL - Aluminum					
Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month Interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					
Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration: recommended 6-month interval Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					
Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044 -L63/PRESSANDTOOL - Aluminum		Digital Resolution: 16.8 million points			Digital Resolution: 16.8 million points
Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044 -L63/PRESSANDTOOL - Aluminum		Resolution: 0.03 µW			Resolution: 0.03 µW
dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					
Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					
Calibration materials: included Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration materials: included Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum					
Calibration: recommended 6-month interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
interval Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min  Temperature accuracy: +/- 0.2K  Temperature precision: +/- 0.02K  Digital Resolution: 16.8 million points  Resolution: 0.03 µW  Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included  Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm  40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum	11				
appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
Heating and cooling rates: 0,001 up to 300°C/min  Temperature accuracy: +/- 0.2K  Temperature precision: +/- 0.02K  Digital Resolution: 16.8 million points  Resolution: 0.03 µW  Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included  Calibration: recommended 6-month interval Includes:  -Al Standard crucible with lid 6x1,5mm  40µl (not crimpable)  - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046  -L63/PRESSANDTOOL – Aluminum					
300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 μW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval lncludes: -Al Standard crucible with lid 6x1,5mm 40μl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 μW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40μl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 μW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40μl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum		300°C/min			
Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 μW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40μl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum		Temperature accuracy: +/- 0.2K			Temperature accuracy: +/- 0.2K
Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					Temperature precision: +/- 0.02K
Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  dynamic) Measuring range: +/-2,5 up to +/- 250mW Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum				-	
Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µI (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  Calibration: recommended 6-month interval Includes: -AI Standard crucible with lid 6x1,5mm 40µI (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
interval Includes: -AI Standard crucible with lid 6x1,5mm  40µI (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  interval Includes: -AI Standard crucible with lid 6x1,5mm 40µI (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					The state of the s
Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
-Al Standard crucible with lid 6x1,5mm  40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  -Al Standard crucible with lid 6x1,5mm  40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					
40µl (not crimpable)  - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046  -L63/PRESSANDTOOL – Aluminum  40µl (not crimpable)  - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046  -L63/PRESSANDTOOL – Aluminum		Includes:			
40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum		-Al Standard crucible with lid 6x1,5mm			-Al Standard crucible with lid 6x1,5mm
crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					40µl (not
- Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum  - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum					crimpable)
tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL – Aluminum			1 1		- Sample press for crimping crucibles Incl.
and 30293046			1.1		tool for 30293043 30293044 30293045
-L63/PRESSANDTOOL – Aluminum -L63/PRESSANDTOOL – Aluminum					
crucible (40 µi, for crimping)   crucible (40 µi, for crimping)					
		crucible (40 µl, for crimping)			Gracible (40 pl, 101 chimping)

- Aluminum lid for 40µl and 100µl Aluminum lid for 40ul and 100ul crucibles for crucibles 30293043 crucibles for crucibles 30293043 and30293045, non pierced and30293045, non pierced -Pierced aluminum lid for 40µl and 100µl -Pierced aluminum lid for 40µl and 100µl crucibles for crucibles 30293043 and crucibles for crucibles 30293043 and - -L40/3051 manual gas control 1 gas -L40/3051 manual gas control 1 gas - Liquid Nitrogen Quench-Cooling Option - Liquid Nitrogen Quench-Cooling Option - High sensitivity ceramic sensor for chip High sensitivity ceramic sensor for chip DSC, High resolution Sensor for maximum DSC, High resolution Sensor for maximum sensitivity (up to +35%). Recommended sensitivity (up to +35%). Recommended for polymer applications (e.g. glass for polymer applications (e.g. glass transition, melting point and transition, melting point and crystallization) Compatible with all ChipDSC systems crystallization) Compatible with all ChipDSC systems and accessories. and accessories - State of the Art Desktop-PC incl. Windows© OS Intel Core i3-1300, 8GB, - State of the Art Desktop-PC incl. Windows© OS Intel Core i3-1300, 8GB, DDR4, >23,8' DDR4, >23,8" - Software module for temperature - Software module for temperature modulation (Cp determination) modulation (Cp determination) -Starter Kit -Starter Kit - UPS 5KVA - UPS 5KVA - AVR 5KVA - AVR 5KVA - With one year warranty - With one year warranty - With calibration certificate - With calibration certificate - With personnel training - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer Water Activity Meter, -Working temp. -10°C~50°C; Working humidity 0~95% RH; Display LCS 67 Display; Measuring range temperature -10°C~50°C; Water Activity 0~1.000aw; Measurement accuracy temperature ±0.5°C water activity ±0.012(@23°C±5°C); Measurement time 5~40min; Measurement points 1~4; Temperature coefficient ≤0.0005/°C; Activity Repeatability ≤0.008 Water Activity Meter,
-Working temp. -10°C~50°C; Working humidity 0~95% RH; Display LCS 67 With one year warranty
With calibration certificate Display; Measuring range temperature - 10°C~50°C; Water Activity 0~1.000aw; Measurement accuracy temperature ±0.5°C - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer water activity ±0.012(@23°C±5°C); Measurement time 5~40min; Measurement Training Certificates of Service Engineer from points 1~4; Temperature coefficient ≤0.0005/°C; Activity Repeatability ≤0.008 Manufacturer - With one year warranty - With calibration certificate - With personnel training 68 Hot Plate/Magnetic Stirrer, Number of stirring positions 1 Stirring quantity max. per stirring position (H2O) [I] 10 Motor rating output [W] 1.5 Direction of rotation left Speed control scale 0 - 6 Speed range [rpm] 100 - 1500 Stirring bar length max. [mm] 80 Heat output [W] 1000 Heating temperature range [°C] 50 - 500 Heat control LED Heating rate heating plate [K/min] 5 Connection for ext. temperature sensor ETS-D5 Fixed safety circuit [°C] 550 Set-up plate material ceramic Set-up plate dimensions [mm] 180 x 180 Dimensions (W x H x D) [mm] 220 x 105 x 330 Weight [kg] 5 Permissible ambient temperature [°C] 5 -40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 21 60529 IP 21 Voltage [V] 230 / 120 / 100 Frequency [Hz] 50/60 Power input [W] 1020 With one year warranty
 With calibration certificate - With personnel training - Calibration on site with Certificate and sticker - Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer

Hot Plate/Magnetic Stirrer, 68 Number of stirring positions 1 Stirring quantity max. per stirring position (H2O) [I] 10 Motor rating output [W] 1.5 Direction of rotation left Speed control Speed range [rpm] 100 - 1500 Stirring bar length max. [mm] 80 Heat output [W] 1000 Heating temperature range [°C] 50 - 500 Heat control LED Heating rate heating plate [K/min] 5 Connection for ext. temperature sensor ETS-D5 Fixed safety circuit [°C] 550 Set-up plate material ceramic Set-up plate dimensions [mm] 180 x 180 Dimensions (W x H x D) [mm] 220 x 105 x 330 Weight [kg] 5 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 21 Voltage [V] 230 / 120 / 100 Frequency [Hz] 50/60 Power input [W] 1020 - With one year warranty - With calibration certificate 72 Water Bath, -Working temperature range 5°C - 100°C -Temperature stability ±0.1°C -Temperature calibration capability 1-point -Working access (LxWxD) 24.1x43.2x15.2cm -Flammability class (DIN 12876-1) I -Displays actual and set point temperature simultaneously -Programmable presets for frequently used temperatures -Intergrated timer -Primary and automatic safety thermostats -Also compatible with waterless bath beads -Reservoir Capacity 20 Liters -Reservoir tank material: Stainless Steel -Reservoir cover: Hinged Gable -Over temperature protection/ failsafe heater control: yes -Reservoir drain: Yes -Maximum ambient temperature 40°C -Overall Dimension (LxWxH) 38.4x57.2x38.4cm -Shipping Weight 11.3 kg - With one year warranty - With calibration certificate 73 Fumehood, External Size (W\*D\*H) 1247\*800\*2450mm Internal Size (W\*D\*H) 987\*560\*700mm Work Surface Height 820mm Max Opening 740mm Air Velocity 0.3~0.8m/s Noise ≤68dB Illuminating Lamp -LED lamp -30W\*1 Blower -Built-in PP centrifugal blower (2 blowers for FH1800(P) only); Speed adjustable Front Window -Resistant to acid and alkali, Manual, 5mm toughened glass, height adjustable. Power Supply AC220V±10%, 50/60Hz; 110V±10%, 60Hz

Water Bath. -Working temperature range 5°C - 100°C -Temperature stability ±0.1°C -Temperature calibration capability 1-point -Working access (LxWxD) 24.1x43.2x15.2cm -Flammability class (DIN 12876-1) I (NFL) -Displays actual and set point temperature simultaneously -Programmable presets for frequently used temperatures -Intergrated timer -Primary and automatic safety thermostats -Also compatible with waterless bath beads -Reservoir Capacity 20 Liters -Reservoir tank material: Stainless Steel -Reservoir cover: Hinged Gable -Over temperature protection/ failsafe heater control: yes -Reservoir drain: Yes -Maximum ambient temperature 40°C -Overall Dimension (LxWxH) 38.4x57.2x38.4cm -Shipping Weight 11.3 kg - With one year warranty - With calibration certificate - With personnel training - Calibration on site with Certificate and sticker Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from Manufacturer

Consumption 360W Material: -Main Body Made of Porcelain white PP, thickness 8mm, resistant to strong acid, alkali and anti-corrosion -Work Table Chemical resistant phenolic resin Standard Accessory: -Illuminating Lamp, Water tap, Gas tap, Water Sink, Base cabinet -Waterproof socket\*2, PP centrifugal blower, pipe strap\*2(4 Pcs for FH1800(P) only) -4 meters PVC duct -(2 Pcs of 4 meters PVC dust for FH1800(P) only), Diameter:250mm - PP work table, epoxy resin board or ceramic board, Active carbon filter, Optional Accessory -Outer PVC centrifugal blower (only need to select when the duct more than 4m) Gross Weight 253kg Package Size(W\*D\*H)

-Main Body 1388\*938\*1612mm

-With one year warranty with installation

Includes

-AVR 5KVA

-Base Cabinet 1388\*888\*1000mm

Fumehood. External Size (W\*D\*H) 1247\*800\*2450mm Internal Size (W\*D\*H) 987\*560\*700mm Work Surface Height 820mm Max Opening 740mm Air Velocity 0.3~0.8m/s Noise ≤68dB Illuminating Lamp -LED lamp -30\W\*1 Blower Front Window 110V±10%, 60Hz Consumption 360W Material: alkali and anti-corrosion resin only) -4 meters PVC duct -(2 Pcs of 4 meters PVC dust for

-Built-in PP centrifugal blower (2 blowers for FH1800(P) only); Speed adjustable -Resistant to acid and alkali, Manual, 5mm toughened glass, height adjustable Power Supply AC220V±10%, 50/60Hz; -Main Body Made of Porcelain white PP, thickness 8mm, resistant to strong acid, -Work Table Chemical resistant phenolic Standard Accessory: -Illuminating Lamp, Water tap, Gas tap, Water Sink, Base cabinet -Waterproof socket\*2, PP centrifugal blower, pipe strap\*2(4 Pcs for FH1800(P) FH1800(P) only), Diameter:250mm - PP work table, epoxy resin board or ceramic board, Active carbon filter, Optional Accessory -Outer PVC centrifugal blower (only need to select when the duct more than 4m) Gross Weight 253kg Package Size(W\*D\*H) -Main Body 1388\*938\*1612mm -Base Cabinet 1388\*888\*1000mm Includes: -AVR 5KVA -With one year warranty with installation -Recertification and Calibration on Site with Certificate and Sticker - With Personnel Training Certificate of Distributorship from Manufacturer - Training Certificates of Service Engineer from

## SECTION IL INSTRUCTIONS TO BIDDERS

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder must have a SLCC that is similar to the Project, as described in the BDS, with a value, adjusted to current prices using the PSA's CPI, that is at least equivalent to: fifty percent (50%) of the ABC for Lot No. 1, and fifty percent (50%) of the ABC for Lot No. 2.

## SECTION II. INSTRUCTIONS TO BIDDERS

Manufacturer

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder must have a SLCC that is similar to the Project, as described in the BDS, with a value, adjusted to current prices using the PSA's CPI, that is at least equivalent to:

The bidder should have completed at least two (2) similar contracts, and the aggregate contract amounts which are equivalent to:

fifty percent (50%) of the ABC for Lot No. 1, and fifty percent (50%) of the ABC for Lot No. 2.

For the guidance and information of all concerned.

ATYY. WILMARK J. RAMOS, DBA Chairperson – Goods and Services