TECHNICAL SPECIFICATIONS

Unit	Item Description Hotplate	Quantity 1	Approved Budget 40,000
units	ceramic top	1	40,000
	temperature unto 540 degC heating surface 7" x 7" 220 V. 60 Hz		
	digital display must be trusted/reliable brand one year warranty on parts and labor		
	one year warranty on parts and labor Provide picture of equipment in bid docs, preferably colored		
units	Stir/ Hot Plate	1	40,000
	ceramic top temperature upto 540 degC		
	stirring range up to 1200 rpm beating surface 5" x 7"		
	220 V. 60 Hz digital display with free stir bar, 1-inch		
	one year warranty on parts and labor Provide picture of equipment in bid docs, preferably colored		
units	Convection oven	10	500,000
	9 cu ft Temp: 20-300 °C Has Timer		
	Temp uniformity: ±2.2°C at 160°C		
	Temp control accuracy: ±0.1°C up to 99°C, ±0.5°C above 100°C No of shelves: 2-3 Power: 230V With 1.2 source warranty		
units	Soxhlet extraction apparatus	1	150,00
	A range of applications: food, feef, fuel and other samples With 6 bulit-in soxhlet set-ups (made of glass)		
	With 6 bulit-in soxhlet set-ups (made of glass) Adjustable extraction time with time alarm		
	Adjustable extraction time with time alarm Extraction solvent can be recovered immediately Voltage: 220V + 10V Frequency of 50Hz Electric power: 300W		
units	Electric power: 300W Furnace	1	300,00
uniti	1500°C Compact Tube Furnace (2° O.D.,) with Complete		300,000
	Accessories - GSL-1500X-50.11I Furnace Structure:Double layer steel casing with two air		
	cooling fans; High purity fiber alumina board chamber for the best energy saving.		
	Power: 2.5 KW Max.(20A breaker required)		
	Voltage: Single Phase, 208 - 240V AC, 50/60 Hz Alumina Process tube:		
	 99.8% High Purity Alumina processing tube. 		
	• 2" (50.8mm) O.D x 1.65" (42mm) I.D x 27.6" (700 mm) Length.		
	 Two fibrous ceramic tube blocks are included for blocking heat radiation from inside tube. (Ceramic blocks must be fully inserted into the furnace chamber before heating) 		
	Vacuum Flange: One pair of SS 304 vacuum flange with double high-temperature		
	e silicone O-ring is Included • Two needle valves with 1/4* pipe adapter are installed with flar		
	ge • 2" default flange with 1/4" Bard fittings, 1/4" tube feedthrough		
	port (for 1/4* O.D thermocouple insert) and a KF25 vacuum por	ļ	
	Uclick bottom right picture to see details) One Vacuum/pressure gauge is installed one side flance		
	One Vacuum/pressure gauge is installed one side flange Vacuum level can reach 10-2 torr by a quality mechanical vacuum pump and 10-5 torr by a molecular pump.		
	Pressure Measurement / Monitoring:		
	Mechanical Vacuum Gauge (included as standard accessory) which measures within a pressure range of -0.1 to 0.15Mpa		
	Working Temperature: • 1500 °C short time (less than 60 mins); 1400 °C Continuous		
	Temperature Controller:		
	FA-YD518P-AG temperature controller is included. Proportional-integral-derivative control (PID control) and auto		
	tune function • 30 segments programmed with ramping, cooling and dwelling		
	Built-in over-temperature alarm and thermocouple failure alarm Add 1 °C temperature control recurrent		
	+/- 1 °C temperature control accuracy Default DB9 PC communication port MET Certified		
	Recommended Heating Rate: • 10°C / min (RT~1000°C) • 5°C / min (1000°C~1500°C)		
units	W -1 - 0		
	Heating Zone Length: 6" (152 mm) Constant Temperature Zone: 80 mm		
	Heating Zone: Heating Zone Length: 6" (152 mm) Constant Temperature Zone: 80 mm Temperature Accuracy: 4"-1.0"C Heating Element: 1600"C grade SiC rods, 4 pcs Dimension: 400 x 300 x 330 mm (15.7" x 12" x 21") New Worldwice (15 = 2.616).		
	Dimension: 400 x 300 x 530 mm (15.7" x 12" x 21") Net Weight: 68 kg (150 lbs)		
	Fumchood	2	500,000
	Ducted, benchtop Interior dimensions (* W)== 47		
	Exterior Dimensions (* W)= 47 Exterior Dimensions (* H)= 48 Exterior Dimensions (* D)= 25		
units	Exterior Dimensions (*D)= 25 Blower (hp)= 1/3 Power (Hz)= 60		
	Power (VAC)= 115		
	0.5 cm thick tempered safety glass counterbalanced sash With 10° (25.4 cm) diameter. 5 m length duct collar.		
	With built in faucet and bottom cabinet Installation fee included		
	With 1 year warranty Large Capacity Mixer	2	100.00
	10-quart capacity bowl	2	100,000
	Includes attachments (dough hook and wire whip) With wire bowl guard		
units	With stainless steel mixing bowl	1	600,00
	Style: Chest Type Capacity: \$81. to 1281. Temp. Range: -20 °C to -86 °C LED Display With Alarm Benner Stronger (200)		2.23/00
	Temp. Range: -20 °C to -86 °C LED Display		
	With Alarm Power Supply: 220V		
unit	Recirculating Chiller	1	250,000
	Temperature range: -10 to 25 degC Working range: -5 to 25 degC Temperature stability: +/- 0.5 degC Refrigerant: R134a		
	Temperature display: LED Temperature control: PID		
	Flow rate (L/min): 2.5 Pump capacity flow pressure (bar): 0.6		
	Pump connection: M10x1 male		
	Weight (kg): -30 Power Consumption: 850 W Voltage: 230V Frequency: 50/60 Hz		
	Frequency: 50/60 Hz Overvoltage category: II With filling level indicator		
	Straightforward filling and draining		
	Reliable/Trusted brand One year warranty on parts and labor Provide picture of equipment in bid does, preferably colored		
units	Portable Flaked Ice Maker		250.000
		1	250,000
	Capacity: at least 60 kg/24hr Ice storage: at least 20 kg With Ice scoop		
	Refrigerant: R134a Voltage: 220V/ 50 Hz Power: at most 450W		
	Condenser unit: air-cooled Stainless steel enclosure With ice full display With uniter alternational		
	With ice full display With water shortage display With trouble display		
	Reliable/Trusted brand		
	With AVR One year warranty on parts and labor Free installation of unit		
	Provide picture of equipment in bid does, preferably colored		
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