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Quotation Number:	15617	Date:	08/06/2023
Job Number:	IN1322	Date:	31/07/2023

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ADDITIONAL:

Payment Terms:
 50% / 40% / 10%
Other: please specify

Penalty Clause Yes / No

Please specify:

Blue Book Completion:

Signed	<i>S. Mark</i>	Date	<i>1/5/24</i>
Verified	<i>Go'cancer</i>	Date	<i>1/5/24</i>

3 - MACHINE SPECIFICATION

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Ref No.	Product Description	Required
HS2022 (continuous flow)		
20402/1	HS2022 Ref Gas + P Mag	
20402/2	HS2022 Ref Gas + E-Mag	
20402/3	HS2022 Ref Gas + Hd Collector + E-Mag	
20402/4	HS2022 Ref Gas + Hd Collector+E-Mag+Trap Loop	
20501	Hd Collector Assy	***
50101/2	Trapping Loop Assy	
70201-1	70201-1 Analyser spares kit – Included	
EA Units		
10202/11	iso-EArth	
10202/13	iso-EArth+	
10202/14	iso-Earth HT Furnace Upgrade	
10202/15	Iso-Earth (Without Autosampler)	
11802/1	Earth+PC	
11802/2	EArth+Clarity+PC	
70501-1	Consumables for C and N for Combustion Only	
70501-11	Simultaneous CNS Consumables Kit (approx. 10000 analysis)	
70501-3	Sample Prep Kit (Inc.)	
70501-4	GSL Combustion and Gas C & N Start Up Kit	
70501-5	Simultaneous NCS Consumables Kit	
70501-6	C&N Combustion Only Consumables Kit (approx. 5000 samples)	
70501-8	Simultaneous CNS Consumables Kit (approx. 5000 samples)	
70601-1	Sulphur Start Up Kit (Inc. with Sercon EA Systems)	
70601-2	Sulphur Consumables Kit for 1000 Samples	
70601-4	Sulphur Consumables Kit (approx. 5000 Samples)	
70801-2	Pyrolysis Consumables Kit-Low temp for Solids	
71701-1	Sub Microgram Nitrogen Analysis Start Up Kit	
SI2040	PN150 Pneumatic Autosampler with one no.50 pos, carousel	
SI2345	ME Micro Balance	
SI2737/A	Sercon 50 Position Autosampler Assy	
SI2789	Extra 50 Position Carousel	
SI2744	Automatic Liquid Sampler 15 Position	
SI2743	Liquid Sampler Mounting Plate	
Headspace Equilibration		
10202/10	XYZ Gas Sampling Control Box	
10302/1	Aqua System	
11103	µCarbs for CF	
11103-1	µCarbs for DI	
11601	200 Place Dual Heated Block 240 Volt	
11801	Sercon XYZ Gas Autosampler	
71107-1	CF oxygen-18 equilibration kit	
71107-2	DI Oxygen-18 Equilibration kit	
71201-1	CF deuterium equilibration kit	
71201-2	DI Deuterium Equilibration kit	
71801-1	WES-DI start up kit (Inc. with WES-DI)	
GC Units		
10402/2	Orchid module 1500C (Will run Hd 70901-1 C Spares Kit Inc)	
10901	Nitrogen Option (71301-1 N Spares kit Included)	
HP7890/1	Agilent 7890B GC System	
HP7890/2	Agilent 7890B GC with Auto Injector	
HP7890/3	Agilent 7890B GC + Auto Injector + 150 Vial Sample Tray	
SI2561	Nexis GC 2010 Plus	

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Ref No.	Product Description	Required
GC Units <i>continued</i>		
SI2564	Nexis GC-2030	
70901-3	GC Pyrolysis H and O Start Up Kit	
70901-4	GC Pyrolysis H Spares Kit	
70901-5	GC Combustion C Spares Kit (approx. 5000 samples)	
70901-6	GC Pyrolysis h Start Up Kit (approx. 5000 samples)	
71301-1	GC N Spares kit	
ABCA2 Units		
10502/1	ABCA2 Sercon XYZ Autosampler	
10602	ABCA2 Gas Box	
20602	Complete Sercon ABCA2 system	Y*
20603	ABCA IR Analyser	
70101-1	ABCA2 spares kit (<i>Inc. With ABCA2</i>)	Y
70101-2	ABCA2 Spares Kit for AB Analitica Systems	
70101-3	ABCA2 Autosampler Upgrade Kit	
SI1767	CVL505 – Barcode Reader	Y
SC9973	13C Urea breath test kit for Helicobacter pylori infection	
SC9974	Helicobacter Test kit for children age 3-11 (45mg)	
Integra2 Units		
20802/4	Integra2	
70201-2	Integra2 analyser spares kit - Included	
70401-1	Integra-2 consumables (<i>Inc. With Integra2</i>)	
Trace Gas Systems		
10802/4	CryoPrep	
10802/5	Automated LN refiller	
10802/6	CryoFlex (TOC)	
10802/7	CryoGas	
10802/8	CryoFlex (LA)	
SI2533	Silicon Carbide Vertical Furnace	
SI2731	213nm Laser Ablation System	
SI2733	isoScell 100 sampler chamber	
71001-1	Cryoprep Spares Kit	
71001-5	CryoGas Consumables Kit	
TOC Units		
14001	Thermalox Environmental TOC-IRMS	
14002	Thermalox Environmental TOC-Standalone	
14003	Thermalox Environmental TOC-Standalone No Sampler	
SI2772	CO2 Detector, High sensitivity Option	
SI2773	NOx detector Option	
SI2774	Vacuum pump Option	
SI2775	Stirred Vial rack Option	
72101-1	TOC Start Up Kit	
72101-2	TOC Chem Pack	
72101-3	TOC & TN Instrument with heavy usage - one year	
72101-4	TOC only - economy holding	
GEO 20-22 (dual inlet)		
10702	GEO 20-22 Water Equilibration System (D & 180)	
21802/1	GEO 20-22	
21802/2	GEO 20-22 + E-Mag	

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21802/3	GEO 20-22 + E-Mag +Hd	
21802/4	GEO 20-22 Inlet	
70301-1	GEO start up kit - Included	
70301-3E	Comprehensive GEO 20-22 spares kit for 5 years operation	
HT-EA		
11501/4	HT-EA (With Autosampler)	
11501/5	HT-EA With Liquid Option	
11501/6	HT-EA Stand Alone	
11501/7	HT-EA (Without Autosampler)	
SI2622	CTC PAL3-LSI-L-S	
SI2624	CTC PAL3-Kit-Standalone	
70801-1	Pyrolysis Consumables Kit-High Temp for Solids	
71501-1	HT-EA Pyrolysis Start Up kit O and H	
71501-2	HT-EA Pyrolysis Kit for Water injections	
71501-3	HT-EA Sensitivity Start Up Kit for O & H in small samples	
71501-4	HT-EA Sensitivity Consumables Kit for O & H in small samples	
71501-5	HT-EA Sensitivity Kit for O&H in Small Samples (5000 samples)	
71501-7	HT-EA Kit for Room Temp Equilibration	
71501-8	HT-EA Pyrolysis Kit for Water injections (approx. 1 year kit)	

Ref No.	Product Description	Required
Upgrades		
12101	Evacuation System ***	
12102	2 Ref Gas+ Dilutor Box ***	
20101	Standard Source Assy ***	
20102	HS Source Assy ***	
20301	Standard Collector Assy ***	
30202/1	System Control Upgrade (Pmag) installation not included	Edwards Or Pfeiffer
30202/2	System Controller Upgrade (Emag) installation not included	Edwards Or Pfeiffer
10202/7	Preparation PCB Upgrade	
30202/3	Hijack Box ***	
30302/4	nEXT85 Edwards Pumping System Upgrade Single - installation not included	
30302/5	nEXT85 Edwards Pumping System Upgrade Dual - installation not included	
30302/6	nEXT85 Edwards Pumping System Upgrade Triple- installation not included	
SI2542	ABCA2 Upgrade Kit	
CALLISTOW	Callisto software upgrade ***	
Specials		
11702	LC-I interface	
12202	Leco Interface Unit	
SI2320	Agilent 1260 Series Refractive Index Detection HPLC System	
71401-1	ABCA-G Start Up/Spares Kit	
71401-2	ABCA-G Equilibration Spares Kit - Room temp O only	
71401-3	ABCA-G Equilibration Spares Kit - Room Temp O & H	
71601-1	LC Interface Spares Kit	
ADDITIONS		
PC	Windows 7 based PC System with Callisto Software	Y
Printer	Printer	
INST1	Installation and start up training at customer's site by Sercon Engineer	Y
INST2	Installation and start up training at customer's site by Agents Engineer	
WARR	1 year warranty	
WARR2	2 year warranty	Y
TRAIN	Training in UK for one person for 3 days	
SCONTRACT	Maintenance Service Contract – 1 year	

3 - MACHINE SPECIFICATION

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SPECIFICATION REQUIREMENTS		
Voltage	230 Volts 50/60Hzs	Y
Plug Type	SI2510 3 Metre USA/Japan plug to IEC C 13	
	SI2511 2.5 Metre Australian plug to IEC C 13	
	SI2512 3 Metre UK 13 amp Fused plug to IEC C 13	
	SI2523 3metre Schuko (Euro) Plug to IEC C13 Socket	Y
	SI2514 2.5 metre Chinese mains to IEC C13	
Pallet	Stamped for export heat treated for 30 min @ 56 °C	Y
	Complies with all Export Requirements	

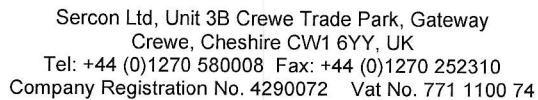
3 - MACHINE SPECIFICATION

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SPECIAL REQUIREMENTS (DETAILED SPECIFICATION)

***Using customers existing autosampler and gas box which may be an older version production must liaise with service on this.**

Approved by Sales: Garry Armstrong	Date: 10/08/2023
Approved by Tech.: Mark O'Connor	Date: 10/08/2023



6 - ABCA2 TEST / ACCEPTANCE SPECIFICATION

Customer:	Biomnis, France		
Quotation Number:	15617	Date:	08/06/2023
Job Number:	IN1322	Date:	31/07/2023
Unit Serial Number			
Gas Box Serial Number			
Autosampler Serial Number			

¹³C				
Ref Gas Injection Precision	100% CO ₂ (n=5)	≤0.1‰ 0.03 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Ref gas in tubes precision	10ml 5% CO ₂ (n=5)	≤0.1‰ 0.06 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Breath Precision	Breath in Exetainer (n=5)	≤0.2‰ 0.08 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Sensitivity	10ml 5% CO ₂ in Exetainer	Major beam 5e-9 with trap of 150 7.8e-9 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Linearity	0.5% - 8.0% CO ₂ in Exetainer	≤0.3 ‰ change 0.3 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Peak Shape	Beam 1,2 and 2/1	Minimum 5V wide 2/1. Gradient acceptable due to single turbo pump	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Stability	2/1 ratio over 600 seconds	Flat, no spikes or variations. Slight gradient acceptable	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Software Test	All read backs Valves function Autosampler bed CETAC Firmware Version No.:	☒ ☒ ☐	Date	Initial

 Flow Meter S/N. RE102792 Leak Detector S/N. 118444

 Multi-Meter S/N. DVM2

Special Tests

Linearity to be better than 0.3‰ and recorded

Sales Signature: <u>[Signature]</u> (Required)	Date: <u>26/10/23</u>
Test Signature: <u>[Signature]</u> (Completed)	Date: <u>26/10/23</u>
Install Signature: <u>R. Kamary</u> (Completed)	Date: <u>25/04/2024</u>

Data to be transferred to:

\\CENTRAL-SERVER\\CentralFiles\\SER SPREADSHEETS\\Instrument Performance Spreadsheet.xls



Sercon Ltd, Unit 3B Crewe Trade Park, Gateway
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Company Registration No. 4290072 Vat No. 771 1100 74

7: ASSEMBLY AND TEST RECORD

Client:	Biomnis, France		
Quotation Number:	15617	Date:	08/06/2023
Job Number:	IN1322	Date:	31/07/2023

PRODUCT: VERSA 1

SERIAL NUMBER: 60101/1-2024/1322

ASSEMBLED: [Signature] Date: 3/1/24.
(Name)

PRE-TEST INSPECTION: P. Hayes Date: 3/1/24
(Production name)

PRE-TEST INSPECTION: R.C. Date: 10/1/24
(Test name)

SYSTEM TEST: R.C. Date: 10/1/24.
(Name)

PRE-DESPATCH INSPECTION: P. Hayes Date: 11/1/24.
(Name)

P.A.T. Test results

In compliance with Low Voltage directive 73/23/EEC
To Low Voltage standard EN61010 – 1:1993

Earth Continuity / Ω

Insulation / $M\Omega$

Earth Leakage Current / mA. @ _____ kVA.

Tested by: _____

Date: _____

N/A.

7: ASSEMBLY AND TEST RECORD

Client:	Biomnis, France		
Quotation Number:	15617	Date:	08/06/2023
Job Number:	IN1322	Date:	31/07/2023

PRODUCT:

ABCA 2

SERIAL NUMBER:

20602/1 - 2023/1322

 ASSEMBLED:
 (Name)

[Signature]

Date:

20/10/23

 PRE-TEST
 INSPECTION:
 (Production name)

[Signature]

Date:

20/10/23

 PRE-TEST
 INSPECTION:
 (Test name)

Steven Bennett

Date:

24/10/23

 SYSTEM TEST:
 (Name)

Steven Bennett

Date:

26/10/23

 PRE-DESPATCH
 INSPECTION:
 (Name)

[Signature]

Date:

27/10/23

P.A.T. Test results

 In compliance with Low Voltage directive 73/23/EEC
 To Low Voltage standard EN61010 – 1:1993

Earth Continuity

0.061
 Ω

Insulation

>300
 $M\Omega$

Earth Leakage Current

1.80

mA. @

0.08

kVA.

Tested by:

[Signature]

Date:

20/10/23

8 - Serial Numbers Record Document

Client:	Biomnis, France		
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Units	S/N
MS/ABCA	20602/1 - 2023/1322
Integra 2	
Prep Unit 1	
Prep Unit 2/Misc	
Electronics Upgrade	
CETAC	
Gas Box	
Autosampler	
BCR	
Dual Heater Block	

Pump Kit and Optics	S/N
Turbo pump S	1T23306091
Turbo pump A	
Rotary Pump	X3703-64001
Voltage	110 / (240)
Gauge S	L12307F034
Gauge A	
Source	20101-228
Collector 1	20301-146
Collector 2	
Magnet	21/12/22 NZ

Parts	S/N
Fan PSU	
24V PSU	

Additional System Info:

PCBs	S/N
Electronics Box	20230020
Prep PCB	
VFC PCB	
Watchdog PCB	
Head Amp PCB 1	23020
Head Amp PCB 2	
Electromagnet RP	

Furnaces	S/N
Combustion	
Reduction	
HT-EA	
GC Oven	
Furnace 1	
Furnace 2	

PC	S/N
PC	1G8N023
Monitor	JZJHZV3
Printer	

Key

Pumps:	E: Edwards P: Pfeiffer
Furnaces:	V/S: Vecstar E: Elite
Magnet:	E: Electromagnet S: Standard
Turbos & Gauges:	S: Source A: Analyser
Collectors:	Std: Standard S: Sulphur HD: Hydrogen Deuterium



COLLECTION NOTE

Job Number: **IN1322**
Customer: Biomnis
Contact: **Xavier COSTARGENT**

Collection on
Date:

2-11-23

No.
of boxes: 2

By:
Company:

Heraclon

Vehicle
Reg No. F022 AOF

Signature:

Print:

XLS



S062_v3

Sercon Ltd
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