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Sercon Ltd, Unit 3B Crewe Trade Park, Gateway
Crewe, Cheshire CW1 6JT, UK
Tel: +44 (0)1270 580008 Fax: +44 (0)1270 252310
Company Registration No. 4290072 Vat No. 771 1100 74

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Job Number:	IN1237	Date:	24/07/2020

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ADDITIONAL:

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

	Date
Shipped	7/9/20
Installed	23/12/20
Installation by	RIC
Warranty expires	23/12/21

Penalty Clause Yes / No
Please specify:

Blue Book Completion:

Signed	S. Ness	Date	23/12/21
Verified	F. Hayes	Date	22/9/21

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4 - LOG SHEET

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

Date	Action Taken	By Whom
24/7/20	UNIT/GAS BOX/AUTOSAMPLER SET UP ON BENCH.	PH.
24/7/20	GAS BOX LEAK CHECKED. NO PROBLEMS FOUND	PH.
27/7/20	PASSED OVER TO ENGINEER	PH.
28-JUL-20	REF GAS PRECISION OK BUT BREATH RESULTS VERY BAD. SWAPPED NEEDLE, SYRINGE, NAFION GC - STILL BAD. NEW SOURCE INLET LINE FITTED. PUMPING	CM
29-JUL-20	LINE CRIMPED TO 3.1E-06. ISSUE STILL PERSISTS. HEAD AMP SWAPPED ALONG WITH VALCO. NO IMPROVEMENT. SYSTEM CONTROLLER SWAP - NOT FITED	CM
30-JUL-20	SOURCE FROM JOB NUMBER 14394 FITTED TO TROUBLESHOOT. NO IMPROVEMENT. DEMO COLLECTOR ACSO FITTED. NUMBERS STILL BAD.	LM
31-JUL-20	DEMO MAGNET FITTED. HT 300V HIGHER AND AFTER MAGNET MOVE FROM MARKED POSITION 2.1 NORMAL (WAS 0.015 PREVIOUSLY). REF + BREATH PRECISION GOOD. ORIGINAL SOURCE + COLLECTOR BACK IN. NEW MAGNET NEEDED.	
4/AUG-20	GAS BOX LEAK CHECKED AGAIN ✓ CHECKED FOR ANY STRAY 6 THOU ✓ SINGLE REF MANIFOLDS CHANGED ✓ PASSED LEAK CHECK, PASSED OVER TO ENGINEER	PH.
05-AUG-20	OLD STYLE GC TAPED - ISSUE PERSISTS. SYRINGE BLOCK SWAPPED - ISSUE PERSISTS.	
12/AUG/20	GAS BOX CHANGED GAS BOX LEAK CHECKED THEN PASSED OVER TO ENGINEER.	PH.
17-AUG-20 (17-AUG-20 CM)	DIFFERENT BATCH NEEDLE FITTED (SUSPECTED ACETONE CONTAMINATION) AND ISOLATION EVENT ADDED TO STABLE N PEAK. NUMBERS NOW LOOKING BETTER	LM
18-AUG-20	NEW MAGNET FITTED TO IMPROVE PEAK SHAPE	

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4 - LOG SHEET

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

Date	Action Taken	By Whom
19-AUG-20	INSTRUMENT NOW PASSING SPECS. ORIGINAL HEAD AMP RE-FITTED. ALL SPECS PASSED	CM
24-AUG-20	BARCODE READER CHECKED AFTER NEW DRIVER INSTALL	CM

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5 - FAULT REPORTING

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

Fault(s)	Action Taken	By Whom	Total Time Taken to Resolve
UNSTABLE DELTA RESULTS	GC, NAFION, SOURCE, COLLECTOR, MAGNET, NEEDLE SYRINGE AND EVENTUALLY GAS BOX SWAPPED	D. HAYES, J MOSELEY + C MARTIN	10 DAYS

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6 - ABCA2 TEST / ACCEPTANCE SPECIFICATION

Customer:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020
Unit Serial Number	20602 120720/1237		
Gas Box Serial Number	10602/2020/1237		
Autosampler Serial Number	071904A7400HR		

^{13}C				
Ref Gas Injection Precision	100% CO_2 (n=5)	≤0.1‰ 0.03‰ RECORD VALUE HERE	Test ☒ Sheet 01	Install ☐ Sheet —
Ref gas in tubes precision	10ml 5% CO_2 (n=5)	≤0.1‰ 0.05‰ RECORD VALUE HERE	Test ☒ Sheet 02	Install ☐ Sheet —
Breath Precision	Breath in Exetainer (n=5)	≤0.2‰ 0.05‰ RECORD VALUE HERE	Test ☒ Sheet 03	Install ☐ Sheet —
Sensitivity	10ml 5% CO_2 in Exetainer	Major beam 5e-9 with trap of 150 3.1e-08 A RECORD VALUE HERE	Test ☒ Sheet 04	Install ☐ Sheet —
Linearity	0.5% - 8.0% CO_2 in Exetainer	≤0.3 ‰ change 0.20‰ RECORD VALUE HERE	Test ☒ Sheet 05	Install ☐ Sheet —
Peak Shape	Beam 1,2 and 2/1	Minimum 5V wide 2/1. Gradient acceptable due to single turbo pump	Test ☒ Sheet 06	Install ☐ Sheet —
Stability	2/1 ratio over 600 seconds	Flat, no spikes or variations. Slight gradient acceptable	Test ☒ Sheet 07	Install ☐ Sheet —
Software Test	All read backs ☑ Valves function ☑ Autosampler bed ☐ CETAC Firmware Version No.: —	.....	Date 24/7/20	Inital

Flow Meter S/N..... **Leak Detector S/N**.....

Multi-Meter S/N.....

Special Tests

Linearity to be better than 0.3‰ and recorded

Sales Signature: O'Connor (Required)	Date: 24/7/20
Test Signature: S. Mus (Completed)	Date: 19/8/20
Install Signature: K. Kemp (Completed)	Date: .....

Data to be transferred to:
\\CENTRAL-SERVER\CentralFiles\SER_SPREADSHEETS\Instrument Performance Spreadsheet.xls

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7: ASSEMBLY AND TEST RECORD

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

PRODUCT: ABCA2 GAS BOX

SERIAL NUMBER: 10602/20/20/1237

ASSEMBLED: (Name) P. Hayes Date: 24/7/20

PRE-TEST INSPECTION: (Production name) D. Walker Date: 24/7/20

PRE-TEST INSPECTION: (Test name) S. Mast Date: 24/7/20

SYSTEM TEST: (Name) LEE MARTIN Date: 19-AUG-20

PRE-DESPATCH INSPECTION: (Name) D. Walker Date: 27/9/20

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 _____ MΩ

Earth Leakage Current _____ mA. @ _____ kVA.

Tested by: _____

Date: _____

UNIT HAS NO LID

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Company Registration No. 4290072 Vat No. 771 1100 74

7: ASSEMBLY AND TEST RECORD

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

PRODUCT: ABCA 2

SERIAL NUMBER: 20602/2020/1237

ASSEMBLED: (Name) P. Hayes / D WALKER Date: 16/7/20

PRE-TEST INSPECTION: (Production name) P. Hayes Date: 16/7/20

PRE-TEST INSPECTION: (Test name) S. [signature] Date: 16/7/20

SYSTEM TEST: (Name) LEE MARTIN [signature] Date: 19-AUG-20

PRE-DESPATCH INSPECTION: (Name) D. Walker Date: 7/9/20

P.A.T. Test results

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

Earth Continuity 0.096 Ω

Insulation >300 MΩ

Earth Leakage Current 0.25 mA. @ 0.05 kVA.

Tested by: P. Hayes

Date: 16/7/20

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Company Registration No. 4290072 Vat No. 771 1100 74

7: ASSEMBLY AND TEST RECORD

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

PRODUCT: ABCA 2 XYZ AUTOSAMPLER.

SERIAL NUMBER: 071904A7400HR

ASSEMBLED: (Name) P. Hayes Date: 24/7/20

PRE-TEST INSPECTION: (Production name) D. Walker Date: 24/7/20

PRE-TEST INSPECTION: (Test name) S. [illegible] Date: 24/7/20

SYSTEM TEST: (Name) LEE MARTIN Date: 19-AUG-20

PRE-DESPATCH INSPECTION: (Name) D. Walker Date: 7/9/20

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 _____ MΩ

Earth Leakage Current _____ mA. @ _____ kVA.

Tested by: _____

Date: _____

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8 - Serial Numbers Record Document

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

Units	S/N
MS/ABCA	20602/2020/1237
Integra 2	
Prep Unit 1	
Prep Unit 2/Misc	
Electronics Upgrade	
CETAC	071904A7400HR
Gas Box	10602/2020/1237
Autosampler	
BCR	09100194
Dual Heater Block	

Pump Kit and Optics	S/N
Turbo pump S	200118041
Turbo pump A	———
Rotary Pump	200118856
Voltage	240
Gauge S	200208717
Gauge A	———
Source	20101-167
Collector 1	20301-096
Collector 2	———
Magnet	7 – 03 - 18

Parts	S/N
Fan PSU	
24V PSU	

PCBs	S/N
Electronics Box	20190016
Prep PCB	
VFC PCB	
Watchdog PCB	
Head Amp PCB 1	1915
Head Amp PCB 2	
Electromagnet RP	

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

PC	S/N
PC	H1KHN33
Monitor	4GSL043
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

Additional System Info:

Invoice

Invoice to:

Buyer: GRENKE Hrvatska d.o.o.,
Av. Većeslava Holjevca 40,
10000 Zagreb, Croatia
VATID: HR44115087893

Leasse: POLIKLINIKA LAB PLUS 2
VATID: HR05355685913

Country of Origin: United Kingdom

Customer Order No. Miro Turner

Invoice No. 13657

Invoice/Tax Date 09/09/2020

Due Date 09/10/2020

Account No. INF002

Quotation – custom reference number: 14472 IN1237

Quantity	Product Code	Product Description	Unit Price £	Net Amount £	VAT Rate %	VAT Amount £
1	20602	Complete Sercon ABCA2 system S/N: 20602/2020/1237 Weight: 125kg	44,100.00	44,100.00	0.00	0.00
1	SI1767	CVL505-Barcode Reader S/N: 09100194 Weight: 5kg	1,190.00	1,190.00	0.00	0.00
1	INST	Installation and start up training at Customer's site	2,400.00	2,400.00	0.00	0.00
1	CIP	Incoterms: CIP – Destination Airport	500.00	500.00	0.00	0.00

Weights and Dimensions:
Box 1 @ 64x64x99cms GW: 98kg
Box 2 @ 85x98x79cms GW: 90kg
Box 3 @ 70x70x75cms GW: 45kg

Invoice is without TAX fee, based on "EU reverse charge"

Delivery address:
Miro Turner
Pjijepoljska 19b. 10,000 Zagreb
Croatia

This invoice is issued in: **GBP**

Total Net Amount	**£**	**48,190.00**
Total VAT Amount	**£**	**0.00**
Invoice Total	**£**	**48,190.00**

Payment Details:-
Payment is required within 30 DAYS of invoice date by bank Transfer.
All bank transfer charges are the responsibility of the customer.
Bank transfer to be made to the relevant IBAN number.
For credit card payments phone: +44 (0)1270 580008
Intra-community supply, subject to VAT in the country of acquisition

Sercon Bank Details:-
National Westminster Bank, 36 High Street
Nantwich, Cheshire CW8 5GA U.K.
Sterling: IBAN: GB74NWBK54101736755133
Euro: IBAN: GB14NWBK60721013806831
US Dollar: IBAN: GB94NWBK60730113806556
BIC: NWBKGB2LXXX

Sercon Limited
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sales@sercongroup.com
www.sercongroup.com
VAT No.: 771 1100 74

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Sales Order No. 14472

ORDER ACKNOWLEDGEMENT

Order Date 24/07/2020

Job No. 14472

Cust. Ord. No. Kerstin Hünies

Account Ref. INF002

Invoice address

INFAI GmbH
Riehler Straße 36
DE-50668
Koln

VAT Reg No: DE 127061812

Delivery address

Contact: Natalie Toumanian
Tel: 0049 221 8 80 44 44

Quantity Ordered	Product Code	Product Description	Unit Price £	Net Price £
		Agent Pricing		
1	20602	Complete Sercon ABCA2 system High performance, high sample throughput IRMS for 13C breath tests. Including 240 place XYZ autosampler and gas box. Includes 70101-1 - ABCA2 spares kit - filament, copper gaskets, source tool kit, pump oil, 100 12 ml Exetainer vials, tubing and needle. Inlcuding Windows based PC and printer	44,100.00	44,100.00
1	SI1767	CVL505 - Barcode Reader Bar code reader for error free sample loading, secure patient identification and GLP compliance.	1,190.00	1,190.00
1	INST	Installation and start up training at Customer's site	2,400.00	2,400.00
1	WARR2	2 year warranty	0.00	0.00
1	CIP	Estimated CIP - Destination Airport	500.00	500.00
		Payment terms 100% prepayment for expedited delivery		

Total Net Amount	£	48,190.00
Shipping Charges (approx)	£	0.00
Total VAT Amount	£	0.00
Order Total	£	48,190.00

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CW1 6JT U.K.
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Phone: +44 (0) 1270 580008
Fax: +44 (0) 1270 252310
sales@sercongroup.com
www.sercongroup.com
VAT No.: GB 771 1100 74

Proforma Invoice

To: INFAI GmbH
Riehler Straße 36
DE-50668
Koln

VAT Reg No: DE 127061812

No: 14472
Date: 24/07/2020
Account Ref: INF002
Customer Ref: Kerstin Hünies

Quantity Ordered	Product Code	Product Description	Unit Price £	Net Price £
		Agent Pricing		
1	20602	Complete Sercon ABCA2 system	44,100.00	44,100.00
1	SI1767	CVL505 - Barcode Reader	1,190.00	1,190.00
1	INST	Installation and start up training at Customer's site	2,400.00	2,400.00
1	WARR2	2 year warranty	0.00	0.00
1	CIP	Estimated CIP - Destination Airport	500.00	500.00
		Payment terms 100% prepayment for expedited delivery		

Delivery address:
Natalie Toumanian

Total Net Amount	£	48,190.00
Shipping (Approx.)	£	0.00
Total VAT Amount	£	0.00
Order Total	£	48,190.00

Payment Details:-
Payment is required within 30 DAYS of invoice date by bank transfer.
All bank transfer charges are the responsibility of the customer.
Bank transfer to be made to the relevant IBAN number.
For credit card payments phone: +44 (0)1270 580008
Intra-community supply, subject to VAT in the country of acquisition

Sercon Bank Details:-
National Westminster Bank, 36 High Street,
Nantwich, Cheshire CW5 5GA U.K.

Sterling:	IBAN: GB74NWBK54101736755133
Euro:	IBAN: GB14NWBK60721013806831
US Dollar:	IBAN: GB94NWBK60730113806556
BIC:	NWBKGB2LXXX

Sercon Limited
Unit 3B Crewe Trade Park
Gateway, Crewe
CW1 6JT U.K.
Company Registration No.: 4290072

Phone: +44 (0) 1270 580008
Fax: +44 (0) 1270 252310

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VAT No.: GB 771 1100 74

Proforma Invoice

Invoice to:

INFAI GmbH
Riehler Straße 36
DE-50668
Koln
Germany

VAT Reg No: DE 127061812

Invoice No: 14472
Invoice/Tax Date: 24/07/2020
Account Ref: INF002
Customer Ref: Miro Turner

Customer Order No. Miro Turner
Job Number IN1237

Quantity	Product Code	Product Description	Unit Price £	Net Amount £	VAT Rate %	VAT Amount £
1	420602	Complete Sercon ABCA2 System SN: 20602/2020/1237	44,100.00	44,100.00	0.00	0.00
1	SI1767	CVL505 – Barcode Reader S/N: 09100194	1,190.00	1,190.00	0.00	0.00
1	INST	Installation and start up training at Customer's site	2,400.00	2,400.00	0.00	0.00
1	CIP	Estimated CIP – Destination Airport	500.00	500.00	0.00	0.00

Payment terms
100% prepayment for expediated delivery

Delivery address:
Miro Turner
Prijepoljska 19b. 10,000 Zagreb
Croatia

This invoice is issued in: **Euro**

Total Net Amount	**£**	48,190.00
Total VAT Amount	**£**	0.00
Invoice Total	**£**	48,190.00

Payment Details:-
Payment is required within 30 DAYS of invoice date by bank transfer.
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Intra-community supply, subject to VAT in the country of acquisition.

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Sterling: IBAN: GB74NWBK54101736755133
Euro: IBAN: GB14NWBK60721013806831
US Dollar: IBAN: GB94NWBK60730113806556
BIC: NWBKGB2LXXX

Sercon Limited
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Fax: +44 (0) 1270 252310

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Sales Order No. 14508

ORDER ACKNOWLEDGEMENT

Order Date 24/07/2020

Job No. 14508

Cust. Ord. No.

Account Ref. INF002

Invoice address

INFAI GmbH
Riehler Straße 36
D-51105
Koln

Delivery address

VAT Reg No: DE 127061812

Contact: Natalie Toumanian
Tel: 0049 221 8 80 44 44

Quantity Ordered	Product Code	Product Description	Unit Price £	Net Price £
		Service Visit for ABCA2 System		
1	SERVISIT	2 Day on-site Service Visit	3,750.00	3,750.00
		Payment Terms 100% on order placement		

Total Net Amount	£	3,750.00
Shipping Charges (approx)	£	0.00
Total VAT Amount	£	0.00
Order Total	£	3,750.00

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Unit 3B Crewe Trade Park
Gateway, Crewe
CW1 6JT U.K.
Company Registration No.: 4290072

Phone: +44 (0) 1270 580008
Fax: +44 (0) 1270 252310
sales@sercongroup.com
www.sercongroup.com
VAT No.: GB 771 1100 74

Proforma Invoice

To: INFAI GmbH
Riehler Straße 36
D-51105
Koln

VAT Reg No: DE 127061812

No: 14508
Date: 24/07/2020
Account Ref: INF002
Customer Ref:

Quantity Ordered	Product Code	Product Description	Unit Price £	Net Price £
		Service Visit for ABCA2 System		
1	SERVISIT	2 Day on-site Service Visit	3,750.00	3,750.00
		Payment Terms 100% on order placement		

Delivery address:
Natalie Toumanian

Total Net Amount	£	3,750.00
Shipping (Approx.)	£	0.00
Total VAT Amount	£	0.00
Order Total	£	3,750.00

Payment Details:-
Payment is required within 30 DAYS of invoice date by bank transfer.
All bank transfer charges are the responsibility of the customer.
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ABCA2 Installation Acceptance Certificate

Job no.:	IN 1237
Customer:	Poliklinika LabPlus
Address	Prijepolska 19b,10 000 Zagreb,Croatia
Contact:	Mr Goran Ferencak (gferencak@poliklinika-labplus.hr)
System:	ABCA 2
ABCA2 Serial Number	20602/2020/1237
Gas Box Serial Number	10602/2020/1237
Autosampler Serial Number	071904A7400 HR
Software:	v.800.0.18575
Engineer:	Mr Robert Kamený
Installation Start Date:	7.12.2020
Installation Completion Date:	18.12.2020
Maintenance Required by Date:	18.12.2021
Delivery Date:	17.9.2020
Warranty Commences:	18.12.2020
Warranty Expires:	17.12.2021
Consignor:	Sercon Limited Unit 3B, Crewe Trade Park Gateway Crewe CW1 6JT U.K.
Outstanding Installation Requirements:	N/A

I hereby agree that the installation has been completed and meets the manufacturer's specifications and that basic training has been provided.

Customer Acceptance		Date:	23.12.2020
Engineer's Signature	Kamený R.	Date:	23.12.2020

Sercon Ltd
Unit 3B Crewe Trade Park
Gateway, Crewe, Cheshire
CW1 6JT United Kingdom
Phone: +44 (0)1270 580008
Email: info:sercongroup.com
www.sercongroup.com
Registered in England and Wales 4290072. VAT No.: GB 771 1100 74
S084_v3

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^{13}C			
Ref Gas Injection Precision	100% CO_2 (n=5)	≤0.1‰ **0.02**	Observed Precision: RK Pass/Fail: PASS Sheet Number: 1
Ref gas in tubes precision	5% CO_2 in Exetainers (n=5)	≤0.1‰ **0.02**	Observed Precision: RK Pass/Fail: PASS Sheet Number: 2
Breath Precision	Breath in Exetainers (n=5)	≤0.2‰ **0.08**	Observed Precision: RK Pass/Fail: PASS Sheet Number: 3
Sensitivity	5% CO_2 in Exetainers	Major beam 5e-9 with trap of 150 **3.14e-08**	Observed Sensitivity: RK Pass/Fail: PASS Sheet Number: 4
Linearity	0.5 to 8.0% CO_2 in Helium: Exetainers	≤0.5 ‰ change **0.35**	Observed Linearity: RK Pass/Fail: PASS Sheet Number: 5
Peak Shape	Beam 1,2 and 2/1	Minimum 5V wide 2/1. Gradient acceptable due to single turbo pump	Observed Peak Shape: RK Pass/Fail: PASS Sheet Number: 6
Stability	2/1 ratio over 600 seconds	Flat, no spikes or variations. Slight gradient acceptable	Observed Stability: RK Pass/Fail: PASS Sheet Number: 7

Special Tests

Specification Acceptance

Engineer Signature:	Kamený R.	Date:	23.12.2020
Customer Signature:		Date:	23.12.2020.

Sercon Ltd
Unit 3B Crewe Trade Park
Gateway, Crewe, Cheshire
CW1 6JT United Kingdom
Phone: +44 (0)1270 580008
Email: info:sercongroup.com
www.sercongroup.com
Registered in England and Wales 4290072. VAT No.: GB 771 1100 74
S084_v3

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Customer Training Checklist

Tuning Parameters:

- What do they mean with respect to what is actually happening in the source?
- How do they affect peak shape, sensitivity and stability?

Gas Box and ASX7400 overview.

- Describe the sample pathway for tube injection, internal ref gas loop loading, ref gas pulse
- Adjusting the autosampler bed layout
- Replacing the needle
- Leak Checking

Running Samples

- How to create the sample list? BCR vs Disk File
- Choosing the correct references and method set up for your application, from tube, ref gas pulse, internal loop loading.
- Event files, when to modify them and how
- Timings, how to adjust the timings to ensure the sample peak is completely integrated
- Measuring and setting the helium flow; valco and syringe.
- Report set up, drift/undrift corrected

The Gas Handling
Routine Maintenance:

- Discuss routine maintenance, including filament and oil change, using the manual as a reference guide.

- A physical demonstration of replacing the needle.

Training Completed			
Engineer Signature:	Kamený R.	Date:	23.12.2020
Customer Signature:		Date:	23.12.2020.

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Details of Visit:

Sercon Ltd
Unit 3B Crewe Trade Park
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7.12.2020

- Set up located on the bench
- Delay in gas and electricity supply arrangements
- Attention: Top lid of the ABCA missing (RK to contact Sercon)

8.12.2020

- Gas and electricity arrangements solved
- Comms established
- Pumps on
- Flow checks as indicated: Needle 30ml/min, Nafion 22ml/min, To M/S 0.5ml/min
- Attention: suspected blocked GC Column (60 ml/min set flow in – 1 ml/min out)
- RK to set up direct replacement

9.12.2020

- Left purging GC column overnight at 60ml/min (a little improvement as 2.5ml/min indicated)
- Decided to bake the column in the sterilization oven at 100˚C, for 4hrs (no improvement)
- Expecting overnight delivery from UK by FED Ex

10.12.2020

- Attention: unexpected delay in delivery (waiting)

11.12.2020

- Attention: unexpected delay in delivery (Fed ex to claim that delay is due to changing shipping arrangements in accordance with Brexit rules)

14.12.2020

- New GC column arrived (to m/s flow indicated at 60 ml/min on both ends)
- Initial checks and specs (pass)
- Vacuum after pumping for multiple days 1e-08mBar

15.12.2020

- Attempted to run specs and daily checks
- Peak shape and 2/1 stability: Pass
- Ref gas precision: 0.02 std
- Breath precision: 0.08
- 5% in tube: 0.02
- Sensitivity: 3.14e-08
- Linearity: 0.35

16.12.2020

- Training for the members of the staff
- Attempted to run patient`s samples (completed at satisfactory level)
- Attention: Bar code reader isn`t picking the bar code on vacutainers (solved 18.12.2020)

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17.12.2020

- Admin work

18.12.2020

- Training for the member of the staff
- Attention: Experiencing issue with CETAC timing out and Reprocessor (RK to seek help from IT dep.)

Recommendations:

- Use different bar code versions / different paper
- Internet access

Faults and Shortages:

- Top lid of the ABCA missing (delivered 14.12.2020)
- Blocked GC Column (replaced 14.12.2020)
- Software/Autosampler: CETAC timing out (solved 18.12.2020)
- Software Reprocessor: Unable to reprocess results (solved 22.12.2020)

Additional Parts Used:

Part Description	Part Code	Cost
ABCA upgrade GC Column		N/A

Sercon Ltd
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Registered in England and Wales 4290072. VAT No.: GB 771 1100 74
S084_v3

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Invoice

Invoice to:

Buyer: GRENKE Hrvatska d.o.o.,
Av. Većeslava Holjevca 40,
10000 Zagreb, Croatia
VATID: HR44115087893

Leasse: POLIKLINIKA LAB PLUS 2
VATID: HR05355685913

VAT Reg No:

Invoice No.	13657
Invoice/Tax Date	09/09/2020
Due Date	09/10/2020
Account No.	INF002

Customer Order No. Miro Turner

Sales Order No. 14472
IN1237

Quantity	Product Code	Product Description	Unit Price £	Net Amount £	VAT Rate %	VAT Amount £
1	20602	Complete Sercon ABCA2 system S/N: 20602/2020/1237	44,100.00	44,100.00	0.00	0.00
1	SI1767	CVL505-Barcode Reader S/N: 09100194	1,190.00	1,190.00	0.00	0.00
1	INST	Installation and start up training at Customer's site	2,400.00	2,400.00	0.00	0.00
1	CIP	Estimated CIP – Destination Airport	500.00	500.00	0.00	0.00

Weights and Dimensions:
Box 1 @ 64x64x99cms GW: 98kg
Box 2 @ 85x98x79cms GW: 90kg
Box 3 @ 70x70x75cms GW: 45kg

SerCon Limited
Unit 3B Crewe Trade Park
Gateway, Crewe. CW1 6JT U.K.
Tel: +44 (0) 1270 580008

Delivery address:
Miro Turner
Pjijepoljska 19b. 10,000 Zagreb
Croatia

This invoice is issued in: GBP

Total Net Amount	£	**48,190.00**
Total VAT Amount	£	**0.00**
Invoice Total	£	**48,190.00**

Payment Details:-
Payment is required within 30 DAYS of invoice date by bank Transfer.
All bank transfer charges are the responsibility of the customer.
Bank transfer to be made to the relevant IBAN number.
For credit card payments phone: +44 (0)1270 580008
Intra-community supply, subject to VAT in the country of acquisition

Sercon Bank Details:-
National Westminster Bank, 36 High Street
Nantwich, Cheshire CW8 5GA U.K.
Sterling: IBAN: GB74NWBK54101736755133
Euro: IBAN: GB14NWBK60721013806831
US Dollar: IBAN: GB94NWBK60730113806556
BIC: NWBKGB2LXXX

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DELIVERY NOTE

Date: 09/09/2020

Order Reference: IN1237_14472

Shipper / Exporter / Manufacturer:

Sercon Limited
Unit 3B Crewe Trade Park
Gateway
Crewe
CW1 6JT
UK

Contact:
Tel: +44 (0) 1270 580008
Reference:

Recipient:

Buyer: GRENKE Hrvatska d.o.o.,
Av. Većeslava Holjevca 40,
10000 Zagreb, Croatia
VATID: HR44115087893

Leasse: POLIKLINIKA LAB PLUS 2
VATID: HR05355685913

Contact: Miro Turner
Tel:

Country of Export **GB**
Country of manufacturer: **GB**
Country of Destination: **HR Croatia**

Shipping Marks / Notes:

Quantity	Product Code	Product Description
1	20602	Complete Sercon ABCA2 system S/N: 20602/2020/1237
1	SI1767	CVL505-Barcode Reader S/N: 09100194
1	INST	Installation and start up training at Customer's site

Weights and Dimensions:
Box 1 @ 64x64x99cms GW: 98kg
Box 2 @ 85x98x79cms GW: 90kg
Box 3 @ 70x70x75cms GW: 45kg

SerCon Limited
Unit 3B Crewe Trade Park
Gateway, Crewe. CW1 6JT U.K.
Tel: +44 (0) 1270 580008

None of the goods contained in this consignment are restricted by IATA or shipping regulations

Claims for damage or shortages must be made within 3 days

Signed

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Invoice

Invoice to:

Buyer: GRENKE Hrvatska d.o.o.,
Av. Većeslava Holjevca 40,
10000 Zagreb, Croatia
VATID: HR44115087893

Leasse: POLIKLINIKA LAB PLUS 2
VATID: HR05355685913

Country of Origin: United Kingdom

Customer Order No. Miro Turner

Invoice No.	13657
Invoice/Tax Date	09/09/2020
Due Date	09/10/2020
Account No.	INF002
Quotation – custom reference number:	14472 IN1237

Quantity	Product Code	Product Description	Unit Price £	Net Amount £	VAT Rate %	VAT Amount £
1	20602	Complete Sercon ABCA2 system S/N: 20602/2020/1237 Weight: 125kg	44,100.00	44,100.00	0.00	0.00
1	SI1767	CVL505-Barcode Reader S/N: 09100194 Weight: 5kg	1,190.00	1,190.00	0.00	0.00
1	INST	Installation and start up training at Customer's site	2,400.00	2,400.00	0.00	0.00
1	CIP	Incoterms: CIP – Destination Airport	500.00	500.00	0.00	0.00

Weights and Dimensions:
Box 1 @ 64x64x99cms GW: 98kg
Box 2 @ 85x98x79cms GW: 90kg
Box 3 @ 70x70x75cms GW: 45kg

Invoice is without TAX fee, based on "EU reverse charge"

SerCon Limited
Unit 3B Crewe Trade Park
Gateway, Crewe. CW1 6JT U.K.
Tel: +44 (0) 1270 580008

Delivery address:
Miro Turner
Pjijepoljska 19b. 10,000 Zagreb
Croatia

This invoice is issued in: GBP

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Total VAT Amount	£	**0.00**
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For credit card payments phone: +44 (0)1270 580008
Intra-community supply, subject to VAT in the country of acquisition

Sercon Bank Details:-
National Westminster Bank, 36 High Street
Nantwich, Cheshire CW8 5GA U.K.
Sterling: IBAN: GB74NWBK54101736755133
Euro: IBAN: GB14NWBK60721013806831
US Dollar: IBAN: GB94NWBK60730113806556
BIC: NWBKGB2LXXX

GRENKE

GRENKE Hrvatska d.o.o.. • Av. Većeslava Holjevca 40 • 10000 Zagreb

Sercon Limited
Crewe Trade Park
72733 Gateway

Zagreb, 14.9.2020.
Jakov Bajić
Telefon: +3851 645 7282
Faks: +385 1 645 7276
E-Mail: jbajic@grenke.hr

SUBJECT: FINANCING APPROVAL NOTICE

Dear Sir,
Hereby we would like to inform you that the financing of the equipment was granted under the following terms and conditions:

Supplier:	Sercon Limited Crewe Trade Park, 72733 Gateway, UK
Lessee:	POLIKLINIKA LAB PLUS 2
Address:	Maksimirska 282 10000 ZAGREB
TaxID:	05355685913
Objects:	Offer nr. 14472
Net acquisition value:	414.154,40 kn
Lease term:	60 months
Monthly installment:	8.370,06 kn
Handling Fee Amount:	2.070,77 kn
Guarantees and collaterals:	Debenture bond of the lessee and personal guarantee of the owner.

All amounts are in HRK (without VAT), and installments are fixed for the entire duration of the contract.

Monthly installment is calculated on quarterly payment basis, and is due on a first day of the calendar quarter. In case of monthly payment option, monthly installment increases by 1.5% in absolute and is due on the first day of the month.

This approval is valid for 30 days starting from the date of the approval.

GRENKE Hrvatska d.o.o. reserves the right to withdraw this financing approval in case of emergence of any event that could negatively influence the lessee's financial soundness.

Best regards,
GRENKE Croatia

Sercon Ltd
Unit 3B Crewe Trade Park
Gateway, Crewe
CW1 6JT U.K.
Tel: +44(0)1270 580008
Fax: +44(0)1270 252310
www.sercongroup.com
E-mail: service@sercongroup.com

Maintenance Contract Agreement

Schedule

Proposal Number	**14508**
Date of Proposal	24/07/2020
Provider	Sercon Limited
Customer **Customer Purchase Order No.**	**Infai GmbH** **Riehler Strabe 36** **D-51105** **Koln** **Germany**
Period of Agreement	12 months from end of warranty

Office Use Only	
Period of Agreement	
Invoice Number / Payment Date	

Pricing Options

Number of Visits Per Annum	Number of Days on Site Per Visit	Price GB£
1	2	£3,570.00

Office Use Only	
Number of Visits per Annum	
Dates of visit 1 / engineer	
Dates of visit 2 / engineer	

Details of Proposal

Overview

The purpose of the agreement is to support the customer in the operation and maintenance of their Europa / PDZ Europa / Sercon Stable Isotope Ratio Mass Spectrometer instrument.
Under the terms of this agreement, the provider will, for the duration of the agreement:-

1. Make maintenance or repair visits to the customers' site as per the options detailed.
2. In the event of an emergency, make an engineer available
3. Provide unlimited technical assistance by phone, fax or e mail.
4. Provide analytical and applications advice where possible.

Any visits may be used for routine maintenance, emergency call-out or training purposes at the customers' request.
In the event of an emergency visit, if the solution is found within the allocated time, the balance of the time will be used for optimisation of the system and / or routine maintenance.

Routine Maintenance Visits

Dates for routine maintenance will be mutually agreed between the parties subject to fair notice period. A routine maintenance visit will consist of: -

Mass Spectrometer

1. Changing the vacuum pump oil.
2. Inspection and changing of the ion source filament if necessary (one replacement filament included in contract price).
3. General checks of wiring, electronics and electronic stability.
4. Optimisation of the source tuning parameters for sensitivity, precision and linearity.
5. Repair of any faults found. Customer to advise of known faults prior to visit.
6. Alert customer to any issues that may need to be addressed in the future.

Preparation Systems

1. Check of all system components.
2. Repair of any faults found. Customer to advise of known faults prior to visit.
3. Detailed leak checks and optimisation of flow rates.
4. Replacement of blocked or ageing pipe work (materials included).

Customers Responsibilities

1. To give the provider due notice of their requirement for a routine service visit.
2. To alert the provider of any known faults prior to the visit.

Exclusions

Parts or consumables supplied by the provider during the visit are excluded from the agreement unless specifically mentioned within this agreement.

Additional

The customer will be provided with a detailed report of the work carried out following the visit. This report will include the engineer's observations and recommendations to the customer.

Phone, fax and E-mail Support (Remote support)

The customer will receive unlimited phone, fax and E-mail support during the period of this agreement.
All requests will be responded to on the day of receipt (weekends excluded).
The customer will receive notification of the Sercon technical help E-mail address. All requests to this address will take priority over any other.
Sercon 'technical bulletin's will be provided free of charge. Technical bulletins are fact sheets detailing diagnosis and repair of common faults on supported systems.

Emergency Call-Out Visits

This will consist of a visit(s) by one of the provider's engineers to remedy a fault with any of the instruments covered under this agreement. A visit will be made as soon as practically possible. The time frame is subject to the required spare parts necessary to resolve the problem being available. Note: Sercon stock most commonly used spare parts and circuit boards but items such as furnaces and pumps are subject to special order.

Emergency visits will only be made at the customers request and the decision to request a visit will remain with the customer at all times.

To avoid the need for unnecessary use of an emergency visit, Sercon engineers will make all attempts to provide a solution to the fault remotely prior to a visit and to diagnose which parts may be required to rectify the fault.

Spare parts or consumable items supplied by the provider during the visit are not included in this agreement unless specifically mentioned.

The customer will be provided with a detailed report of work carried out during the visit.

If there is a requirement to replace any parts, the price and necessity will be agreed with the customer prior to fitting such parts.

Terms and Conditions

1. All agreements are subject to payment in advance.
2. No agreement is valid until payment has been received. Any cover provided prior to receipt of payment is at the discretion of Sercon Limited.
3. Failure by the provider to honour this agreement will entitle the customer to a refund of the agreement charges pro-rata to the unused part of the agreement.
4. For administration purposes it should be assumed that 66.67% of the agreement charges relate to the visit and 33.33% to remote support respectively.
5. The agreement charges include: -
   5.1 All travel costs incurred by the provider in line with the agreement
   5.2 All subsistence costs
   5.3 All accommodation costs
6. The agreement charges do not include: -
   6.1 parts or consumable items supplied by the provider during a maintenance visit or emergency visit unless specifically mentioned within the agreement.
   6.2 parts or consumables supplied to the customer as a result of remote diagnostics or recommended to the customer by the provider.
   6.3 visits to the customer's premises to rectify any faults or provide maintenance over and above the terms of this agreement. Additional visits will attract an additional charge in line with Sercon preferential rates scheme.
   6.4 Additional days spent on site, over and above this agreement, during emergency call out or routine maintenance visits. The preferential rates scheme applies.
   6.5 The provider does not warrant any items on the customer's system(s). Any spare parts provided will be subject to individual warranty. Warranty will be provided on such items subject to normal warranty terms and conditions.

Legal Notices

1. The provider will ensure that Employers, Product and Public Liability cover all engineers. Certificate numbers may be provided on request.
2. This agreement shall be subject to the Laws of England. Any disputes, claims or settlements are subject to the jurisdiction of the Courts unless the interested parties can agree settlement.
3. If any part of this agreement shall be deemed void, it shall not affect the balance of the agreement.

Signatures

This agreement is considered to be operational once signed and dated by the interested parties below, and subject to payment of the invoice.

On Behalf of Sercon Limited	On Behalf of Customer
Joconnor …….. Joanne O'Connor	……
24/07/2020 …….. Date	…… Date

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Packing List

Reference: Miro Turner

Shipper / Exporter:

Sercon Limited
Unit 3B Crewe Trade park
Gateway
Crewe
CW1 6JT
UK

Tel: +44 (0) 1270 580008
Reference: IN1237

Consignee:

Poliklinika LabPlus
Prijepoljska 19b. 10,000 Zagreb
Croatia

C/O: INFAI GmbH

Contact Name: Miro Turner
Contact Tel Number: +385914667429

BOX: 2

Quantity	Product Code	Product Description	Serial Number: *if available*
☑ 1		Rotary Pump	200118856
☑ 1		Permanent Magnet + feet	7-03-18
☑ 1		PC	H1KHN33
☑ 1		Monitor	4GSL043
☑ 1	70101-1	ABCA2 Spares Kit	
☑ 1		CETAC Base	
☑ 5		CETAC Racks	
☑ 3		European Power Lead	
☑ 1		Flow Cable (packed with *Power Leads*)	
☑ 1		Valve Cable (packed with *Power Leads*)	
☑ 2		LIMS Connection Cable (packed with *Power Leads*)	
☑ 3		Connecting Pipes (packed with *Power Leads*)	
☑ 1		Manual	
☑ 1		Software Backup USB (packed with *Manual*)	
☑ 1		Windows Recovery USB (packed with *Manual*)	

Packed by: D. Walker

Date: 7/9/2020

Claims for damage or shortages must be made within 3 days

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Packing List

Reference: Miro Turner

Shipper / Exporter:

Sercon Limited
Unit 3B Crewe Trade park
Gateway
Crewe
CW1 6JT
UK

Tel: +44 (0) 1270 580008
Reference: IN1237

Consignee:

Poliklinika LabPlus
Prijepoljska 19b. 10,000 Zagreb
Croatia

C/O: INFAI GmbH

Contact Name: Miro Turner
Contact Tel Number: +385914667429

BOX: 1

Quantity	Product Code	Product Description	Serial Number: *if available*
☑ 1	20602/1	ABCA2 Unit	20602/2020/1237

Packed by: D. Walker

Date: 7/9/2020

Claims for damage or shortages must be made within 3 days

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Packing List

Reference: Miro Turner

Shipper / Exporter:

Sercon Limited
Unit 3B Crewe Trade park
Gateway
Crewe
CW1 6JT
UK

Tel: +44 (0) 1270 580008
Reference: IN1237

Consignee:

Poliklinika LabPlus
Prijepoljska 19b. 10,000 Zagreb
Croatia

C/O: INFAI GmbH

Contact Name: Miro Turner
Contact Tel Number: +385914667429

BOX: 3

Quantity	Product Code	Product Description	Serial Number: *if available*
☑ 1		CETAC Autosampler	071904A7400HR
☑ 1		CETAC Arm & Needle	
☑ 1		CETAC Completion Kit	
☑ 1		Gas Box	10602/2020/1237
☑ 1		Barcode Reader	09100194

Packed by: D. Walker

Date: 7/9/2020

Claims for damage or shortages must be made within 3 days

14472

Quotation

To: INFAI GmbH
Riehler Straße 36
DE-50668
Koln

VAT Reg No: DE 127061812

Quotation Date:	13/07/2020
Quotation Reference:	14472
Customer Ref:	Kerstin Hünies
Account Ref.	INF002
Quotation Validity:	13/10/2020

Quantity	Product Code	Product Description	Unit Price £	Net Price £
		Agent Pricing		
1	20602	Complete Sercon ABCA2 system High performance, high sample throughput IRMS for 13C breath tests. Including 240 place XYZ autosampler and gas box. Includes 70101-1 - ABCA2 spares kit - filament, copper gaskets, source tool kit, pump oil, 100 12 ml Exetainer vials, tubing and needle. Inlcuding Windows based PC and printer	44,100.00	44,100.00
1	SI1767	CVL505 - Barcode Reader Bar code reader for error free sample loading, secure patient identification and GLP compliance.	1,190.00	1,190.00
1	INST	Installation and start up training at Customer's site	2,400.00	2,400.00
1	WARR2	2 year warranty		
1	CIP	Estimated CIP - Destination Airport	500.00	500.00

Payment terms
100% prepayment for expedited delivery

This quotation is issued in		Pound Sterling
Total Net Amount	£	48,190.00
Total VAT Amount	£	0.00
Order Total	£	48,190.00

*** The price quoted does not include any local taxes or duties**
See separate document for terms and conditions

Delivery: within 90 days of receipt of order

Payment Details:-
50% with order, 40% on delivery and 10% installation
100% on delivery
Payment is required within 30 DAYS of invoice date by bank transfer.
Intra-community supply, subject to VAT in the country of acquisition.
All bank transfer charges are the responsibility of the customer.

Sercon Bank Details:-
National Westminster Bank, 36 High Street, Nantwich, Cheshire CW5 5GA U.K.

IBAN: GB74NWBK54101736755133
SWIFT/BIC: NWBKGB2LXXX

Sercon Limited
Unit 3B Crewe Trade Park
Gateway, Crewe
CW1 6JT U.K.
Company Registration No.: 4290072

Phone: +44 (0) 1270 580008
Fax: +44 (0) 1270 252310

www.sercongroup.com
VAT No.: 771 1100 74

14508

Quotation

To: INFAI GmbH
Riehler Straße 36
D-51105
Koln

VAT Reg No: DE 127061812

Quotation Date:	24/07/2020
Quotation Reference:	14508
Customer Ref:	
Account Ref.	INF002
Quotation Validity:	24/10/2020

Quantity	Product Code	Product Description	Unit Price £	Net Price £
		Service Visit for ABCA2 System		
1	SERVISIT	2 Day on-site Service Visit	3,750.00	3,750.00
		Payment Terms 100% on order placement		

This quotation is issued in **Pound Sterling**

Total Net Amount	£	3,750.00
Total VAT Amount	£	0.00
Order Total	£	3,750.00

*** The price quoted does not include any local taxes or duties**
See separate document for terms and conditions

Delivery: within 90 days of receipt of order

Payment Details:-
50% with order, 40% on delivery and 10% installation
100% on delivery
Payment is required within 30 DAYS of invoice date by bank transfer.
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www.sercongroup.com
VAT No.: 771 1100 74

Sercon Ltd, Unit 3B Crewe Trade Park, Gateway
Crewe, Cheshire CW1 6JT, UK
Tel: +44 (0)1270 580008 Fax: +44 (0)1270 252310
Company Registration No. 4290072 Vat No. 771 1100 74

3 - MACHINE SPECIFICATION

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

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+	
10202/6	GSL Large Hole Autosampler Option	
11802/1	EArth	
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*	
SI1275	*Sercon standard SL Autosampler*	
SI1551	*Double Sample Dispenser*	
SI1744	*Sealed Autosampler*	
SI2040	*PN150 Pneumatic Autosampler with one no.50 pos, carousel*	
SI2345	*ME Micro Balance*	
SI2368	*Zero-Blank Autosampler 120 samples*	
SI2392	*Additional Carousel 180 samples (5mm)*	
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 Combustion/Pyrolysis 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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3 - MACHINE SPECIFICATION

Client:	INFAI GmbH		
Quotation Number:	14472	Date:	13/07/2020
Job Number:	IN1237	Date:	24/07/2020

Ref No.	Product Description	Required
GC Units ***continued***		
SI2564	Nexis GC-2030	
70901-3	*GC-CP Pyrolysis H and O Start Up Kit*	
70901-4	*GC-CP Pyrolysis H Spares Kit*	
70901-5	*GC-CP Combustion C Spares Kit (approx. 5000 samples)*	
70901-6	*GC-CP Pyrolysis h Start Up Kit (approx. 5000 samples)*	
ABCA2 Units		
10502/1	ABCA2 Sercon XYZ Autosampler	
10602	ABCA2 Gas Box	
20602	Complete Sercon ABCA2 system	Y
70101-1	*ABCA2 spares kit (Inc.With ABCA2)*	Y
70101-2	*ABCA2 Spares Kit for AB Analitica Systems*	
70101-3	*ABCA2 Autosampler Upgrade Kit*	
SI1767	*CVL505 – Barcode Reader*	Y
Integra2 Units		
20802/4	Integra Wave	
70201-2	*Integra2 ama;yser spares kit - Included*	
70401-1	*Integra-2 consumables (Inc. With Integra2)*	
SI2224	TCD2 Detector With Controller	
Trace Gas Systems		
10802/4	CryoPrep	
10802/5	Automated LN refiller	
10802/6	CryoFlex	
10802/7	CryoGas	
10802/8	CryoFlex (LA)	
71001-1	Cryoprep Spares Kit	
SI2135	Thermalox Environmental TOC Analyser	
SI2136	Thermalox TOC Autosampler	
SI2140	TOC Start up spares kit	
SI2180	Carbon (CO2) detector	
SI2393	Carrier gas scrubber furnace and dryer	
SI2431	5100 NOx Box	
GEO 20-22 (dual inlet)		
10702	GEO 20-22 Water Equilibration System (D & 18O)	
21802/1	GEO 20-22	
21802/2	GEO 20-22 + E-Mag	
21802/3	GEO 20-22 + E-Mah +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 Wave	
10202/10	HT-EA Gas Sample Control Box	
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)*	

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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 ***	
30302/1	Edwards Pumping System Upgrade Single - installation not included	
30302/2	Edwards Pumping System Upgrade Dual - installation not included	
30302/3	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 Equilbration Spares Kit - Room Temp O & H*	
71601-1	*LC Interface Spares Kit*	
71801-1	*WES-DI start up kit (Inc. with WES-DI)*	
ADDITIONS		
PC	Windows 7 based PC System with Callisto Software	Y
Printer	Printer	Y
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	Extension of warranty to one year	
WARR2	Extension of warranty to two years	Y
SERV	Service contract for second year	
TRAIN	Training in UK for one person for 3 days	
SPECIFICATION REQUIREMENTS		
Voltage	230 Volts 50/60Hrzs	
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	

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SPECIAL REQUIREMENTS (DETAILED SPECIFICATION)

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3 - MACHINE SPECIFICATION

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No.	ACTIONS FROM MEETING	ACTIONEE	RESPONSE