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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:	IN1255	Date:	24/03/2021

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ADDITIONAL:

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

Penalty Clause **Yes / No**
Please specify: _____

Blue Book Completion:

Signed	[signature]	Date	31/1/23
Verified	[signature]	Date	31/1/23

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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*	*Y*
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*	*Y*
70501-11	*Simultaneous CNS Consumables Kit (approx. 10000 analysis)*	
70501-3	*Sample Prep Kit (Inc.)*	*Y*
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	

*** When ordered alone IN no. / Blue book **NOT** required

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3 - MACHINE SPECIFICATION

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Job Number:	IN1255	Date:	24/03/2021

Ref No.	Product Description	Required
GC Units ***continued***		
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	
20603	ABCA IR Analyser	
70101-1	*ABCA2 spares kit (Inc.With ABCA2)*	
70101-2	*ABCA2 Spares Kit for AB Analitica Systems*	
70101-3	*ABCA2 Autosampler Upgrade Kit*	
SI1767	*CVL505 – Barcode Reader*	
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	Y
70201-2	*Integra2 analyser spares kit - Included*	*Y*
70401-1	*Integra-2 consumables (Inc. With Integra2)*	
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 & 18O)	
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	
INST2	Installation and start up training at customer's site by **Agents** Engineer	Y
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	

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3 - MACHINE SPECIFICATION

Client:	LabTech Corporation, Inc		
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SPECIFICATION REQUIREMENTS		
Voltage	230 Volts 50/60Hrzs	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	
	SI2514 2.5 metre Chinese mains to IEC C13	Y
Pallet	Stamped for export heat treated for 30 min @ 56 °C	Y
	Complies with all Export Requirements	

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3 - MACHINE SPECIFICATION

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Job Number:	IN1255	Date:	24/03/2021

SPECIAL REQUIREMENTS (DETAILED SPECIFICATION)

Approved by Sales: *(Name)* O'Connor.	Date: 24/3/21
Approved by Tech.: *(Name)* M.O'C	Date: 24/3/21

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3 - MACHINE SPECIFICATION

Client:	LabTech Corporation, Inc		
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No.	ACTIONS FROM MEETING	ACTIONEE	RESPONSE

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4 - LOG SHEET

Client:	LabTech Corporation Inc		
Quotation Number:	15196	Date:	24/03/2021
Job Number:	IN1255	Date:	24/03/2021

Date	Action Taken	By Whom
11/11/22	Instrument Pumping down	SM
①	Furnaces in wrong Place	
	Samper bolts tightened	SM
	Gases attached to Instrument He, CO2, Air	
	Bx reg reads ok Set to 25PSI	SM.
②	He reg not reading wired wrong	
	no correct and reading	SM
16/11/22	Instrument low Leak tight Mag in	
	Place all flow and crimps Set	
17/11/22	Dropped Sample both N2 + CO2 in Spec	SM
	for peak Shape + Stability	
	Blanks ran Beam Sense <2E-010	SM
	Dual Precision Pat on. 400/100	
	CO2 - 0.02V 0.07V	SM.
18/11/22	Dual Linearity Pat on.	
	CO2 - 0.3V N2 - 0.5V	
	Instrument works well ready to be	SM
	backed up and powd off to Ship	

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5 - FAULT REPORTING

Client:	LabTech Corporation Inc		
Quotation Number:	15196	Date:	24/03/2021
Job Number:	IN1255	Date:	24/03/2021

Fault(s)	Action Taken	By Whom	Total Time Taken to Resolve
(1)	Furnaces Cent Rod in wrong Place moved down 50mm	SM	½ day
(2)	Helium Transducer wired wrong at D-Type 1pin out	JH	15mins

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6 - TEST / ACCEPTANCE SPECIFICATION

Customer:	LabTech Corporation Inc		
Quotation Number:	15196	Date:	24/03/2021
Job Number:	IN1255	Date:	24/03/2021

HS20-22			
Reference Gas Precision (n=5)			
^{13}C	(CO_2)	0.06	
^{15}N		0.06	
^{18}O	(CO_2)	0.06	
^{34}S	(SO_2)	0.1	
^{2}H		0.4	

Reference Gas Linearity		
^{13}C	≤0.02‰/nA	
^{15}N	≤0.02‰/nA	

IsoEArth & IsoEArth+						
Combustion (n=5)						
^{13}C	100 µg C	0.1		10 µg C	0.8	
^{15}N	100 µg N	0.15		10 µg N	1.5	
^{34}S	25 µg S	0.3		10 µg S	1.0	
Dual	400 µg C	0.1		100 µg N	0.15	

Integra2			
^{13}C	100 µg C	0.2	
^{15}N	100 µg N	0.3	
Dual	100 µg N & 400 µg C	0.4 & 0.15 0.07 + 0.02.	✓
^{34}S	30 µg S	0.5	
^{18}O	100 µg O	0.5	

Linearity Dual 0.5 0.3 CO2 0.5 N2 ✓

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HT-EA			
Pyrolysis (n=5)			
^{18}O	100 µg O or 1 µl water	0.3	
^{2}H	200 µg H or 1 µl water	1.0	

Aqua, µCarbs & GasBox						
Equilibrations (n=5)						
^{18}O	0.2 ml water	0.1				
^{2}H	0.2 ml water	2.0				
Carbonates (n=5)						
^{13}C	100 µg $CaCO_3$	0.08				
^{18}O	100 µg $CaCO_3$	0.1				
Gas Analysis (n=5)						
^{13}C	5% CO_2	0.1		Air CO_2	0.1	
^{18}O	5% CO_2	0.1		Air CO_2	0.2	
^{2}H	0.5 ml H_2	1.5				
^{15}N	0.5 ml N_2	0.1		100 ppm N_2O	0.5	
^{13}C	Breath (12 ml)	0.1				
DIC (n=5)						
^{13}C	15ppm (0.5ml)	0.15				

LC-I			
(n=5)			
^{13}C		0.2	

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GC Orchid							
Combustion (n=3 for each analyte)							
^{13}C	3 Alkanes	100 ng C	0.2		10 ng C	0.5	
^{15}N	2 Amines	100 ng N	0.5		14 ng N	1.5	
Pyrolysis (n=3 for each analyte)							
^{2}H	3 Alkanes	250 ng H	3.0		25 ng H	10.0	
^{18}O	3 FAMES	100 ng O	0.5		20 ng O	2.0	
Water pyrolysis (n=5)							
^{2}H	0.1 µl water	3.0					
^{18}O	0.1 µl water	0.4					

CryoRange						
(n=5)						
^{13}C	Air CO_2 (12ml)	0.1		Air CH_4 (125ml)	0.2	
^{15}N	Air N_2 (1ml)	0.1		Air N_2O (125ml)	0.4	
^{18}O	Air CO_2 (12ml)	0.15		Air N_2O (125ml)	0.7	
^{18}O	Air O_2 (1ml)	0.1				
^{2}H	Air CH_4	3.0				
^{13}C	TOC (5ppm)	0.4				
^{13}C	Laser					

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Geo2			
Internal precision (no change overs)			
^{2}H	200 Bar µl	0.15	
^{13}C	100 Bar µl	0.01	
^{15}N	100 Bar µl	0.01	
^{18}O	100 Bar µl	0.015	
^{34}S	100 Bar µl	0.015	
Single cold finger volumes (10 change overs)			
^{13}C	20 Bar µl	0.01	
^{18}O	20 Bar µl	0.015	
^{13}C	3 Bar µl	0.02	
^{18}O	3 Bar µl	0.03	
CAPS (n=5)			
^{13}C	50 µg $CaCO_3$	0.03	
^{18}O	50 µg $CaCO_3$	0.06	
WES (n=5)			
^{2}H		1.0	
^{18}O		0.05	
Manifold (10 tubes)			
^{2}H		0.5	
^{13}C		0.02	
^{15}N		0.02	
^{18}O		0.03	
^{34}S		0.03	

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Special tests

Sales Signature: Jacenna	Date: 23/11/22
Test Signature: S. Mus	Date: 23/11/22

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7: ASSEMBLY AND TEST RECORD

Client:	LabTech Corporation Inc		
Quotation Number:	15196	Date:	24/03/2021
Job Number:	IN1255	Date:	24/03/2021

PRODUCT: INTEGRA 2

SERIAL NUMBER: 20802/4-2022/1255

ASSEMBLED: (Name) James Hann Date: 9/11/22

PRE-TEST INSPECTION: (Production name) P. Hayes Date: 9/11/22

PRE-TEST INSPECTION: (Test name) S. Mosely Date: 9/11/22

SYSTEM TEST: (Name) S. Mosely Date: 18/11/22.

PRE-DESPATCH INSPECTION: (Name) James Hann Date: 23/11/22

P.A.T. Test results

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

Earth Continuity 0.79 Ω

Insulation >300 MΩ

Earth Leakage Current 0.25 mA. @ 0.05 kVA.

Tested by: P. Hayes

Date: 7/11/22

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8 - Serial Numbers Record Document

Client:	LabTech Corporation Inc		
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Units	S/N
MS/ABCA	
Integra 2	20802/4-2022/1255
Prep Unit 1	
Prep Unit 2/Misc	
Electronics Upgrade	
CETAC	
Gas Box	
Autosampler	42661.
BCR	
Dual Heater Block	

Pump Kit and Optics	S/N
Turbo pump S	22079022
Turbo pump A	
Rotary Pump	22051065 7
Voltage	110 / (240)
Gauge S	220405175
Gauge A	
Source	20102-207
Collector 1	~~[illegible]~~
Collector 2	20301-121
Magnet	23/5/22 3

Parts	S/N
Fan PSU	
24V PSU	

PCBs	S/N
Electronics Box	2022000012
Prep PCB	
VFC PCB	
Watchdog PCB	
Head Amp PCB 1	22010.
Head Amp PCB 2	
Electromagnet RP	

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

PC	S/N
PC	CV2DQR3
Monitor	JM2HBH3
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: