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Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	1N1279 <i>OR</i> <i>1N279</i>	Date:	09/03/2022

OR 11/1/22.

- ☒ 1 QUOTATION
- ☒ 2 CUSTOMER ORDER
- ☒ 3 MACHINE SPECIFICATION DOCUMENT_S027_v11
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ADDITIONAL:

Payment Terms:

50% / 40% / 10%

Other: please specify

Penalty Clause Yes / No

Please specify:

Blue Book Completion:

Signed	<i>Brothera</i>	Date	<i>28/11/22</i>
Verified	<i>S. Mery</i>	Date	<i>28/11/22</i>

3 - MACHINE SPECIFICATION

Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN1276 IN1279 & R 11/9/22	Date:	09/03/2022

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	✓
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	
WARR	1 year warranty	
WARR2	2 year warranty	✓
TRAIN	Training in UK for one person for 3 days	
SCONTRACT	Maintenance Service Contract - 1 year	

3 - MACHINE SPECIFICATION

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Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN1276 IN1279 gr 11/9/22	Date:	09/03/2022

SPECIFICATION REQUIREMENTS		
Voltage	Volts 50/60Hzs 230volts	
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	
Pallet	Stamped for export heat treated for 30 min @ 56 °C	
	Complies with all Export Requirements	✓

3 - MACHINE SPECIFICATION

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Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN1276 IN1279 28 119/22	Date:	09/03/2022

SPECIAL REQUIREMENTS (DETAILED SPECIFICATION)

70101-6 ABCA Breng 4 x1

Approved by Sales: (Name)	G. ARMSTRONG	Date:	16/MAR/2022
Approved by Tech.: (Name)	M.O. L	Date:	16/3/2022

3 - MACHINE SPECIFICATION

Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN4276 1N1279 SR 119122	Date:	09/03/2022

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	
20603	ABCA IR Analyser	✓
70101-1	ABCA2 spares kit (Inc. With ABCA2)	
70101-2	ABCA2 Spares Kit for AB Analytica 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	
70201-2	Integra2 analyser spares kit - Included	
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 & 180)	
21802/1	GEO 20-22	
21802/2	GEO 20-22 + E-Mag	

3 - MACHINE SPECIFICATION

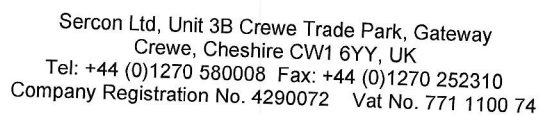
Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN4276 INR 79 GR 1/9/22	Date:	09/03/2022

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	

4 - LOG SHEET

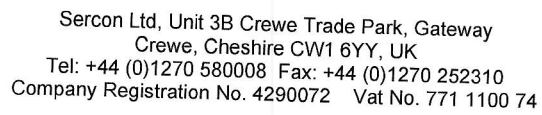
Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN4276 IN1279 82119122	Date:	09/03/2022

Date	Action Taken	By Whom
21-6-22	Removed original gas box and installed better version Source - new filament conditioned and set to CO ₂ settings. CO ₂ flows set to 2ml	SB
22-6-22	Start up system on had no trap values on the source. The magnet had slipped out of position. Source removed and magnet repositioned. Ramped down and tried to gain peakshape. Unable to find a good magnet position with a reasonable magnet position the 2/1 ratio was off 0.016. To gain a good ratio the peakshape was and beams were very sloped. With either peakshape the system 2/1 stability was poor. Changed magnet, no difference. Changed head amp	SB
23-6-22	Changed collector still no peakshape. Tried instrument collector in test rig. Collector worked O.K in test rig but had a shoulder on the 2/1 peak I couldn't adjust out. Very stable 2/1 stability. Head amp failed??	SB
24-6-22	Another magnet & head amp tried. Still unable to get coincidence measurement	SB
	Testing stopped flight tube & magnet returned to manufacturers for repairs	SB



Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
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Job Number:	IN1276 IN1279	Date:	09/03/2022

[illegible]



5 - FAULT REPORTING

Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN4276 IN1279	Date:	09/03/2022

[illegible]

6 - ABCA2 TEST / ACCEPTANCE SPECIFICATION

Customer:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN1276 IN1279 80 119122	Date:	09/03/2022
Unit Serial Number	20602/2022/1279		
Gas Box Serial Number	—		
Autosampler Serial Number	10602-2022/1279		

13C				
Ref Gas Injection Precision	100% CO ₂ (n=5)	≤0.1‰ 0.07 RECORD VALUE HERE	Test ☒	Install ☐
			Sheet —	Sheet —
Ref gas in tubes precision	10ml 5% CO ₂ (n=5)	≤0.1‰ 0.1 RECORD VALUE HERE	Test ☒	Install ☐
			Sheet —	Sheet —
Breath Precision	Breath in Exetainer (n=5)	≤0.2‰ 0.18 RECORD VALUE HERE	Test ☒	Install ☐
			Sheet —	Sheet —
Sensitivity	10ml 5% CO ₂ in Exetainer	Major beam 5e-9 with trap of 150 3.627-9 RECORD VALUE HERE	Test ☒	Install ☐
			Sheet —	Sheet —
Linearity	0.5% - 8.0% CO ₂ in Exetainer	≤0.3 ‰ change 0.3 RECORD VALUE HERE	Test ☒	Install ☐
			Sheet —	Sheet —
Peak Shape	Beam 1,2 and 2/1	Minimum 5V wide 2/1. Gradient acceptable due to single turbo pump	Test ☒	Install ☐
			Sheet —	Sheet —
Stability	2/1 ratio over 600 seconds	Flat, no spikes or variations. Slight gradient acceptable	Test ☒	Install ☐
			Sheet —	Sheet —
Software Test	All read backs Valves function Autosampler bed CETAC Firmware Version No.:	☒ ☒ ☒ ☒ —	Date	Initial

Flow Meter S/N... 102794

Leak Detector S/N... 118444

Multi-Meter S/N... DV M 7

Special Tests

Linearity to be better than 0.3‰ and recorded

Sales Signature: <i>[Signature]</i>	(Required)	Date: 21/7/22
Test Signature: <i>[Signature]</i>	(Completed)	Date: 21-7-22
Install Signature:	(Completed)	Date:

Data to be transferred to:

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

7: ASSEMBLY AND TEST RECORD

Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN4276 <u>1279 MR</u>	Date:	09/03/2022

PRODUCT:

ABCA 2

SERIAL NUMBER:

20602/2022/1279

 ASSEMBLED:
 (Name)

James James

Date:

31/5/22

 PRE-TEST
 INSPECTION:
 (Production name)

P. Hayes

Date:

31/5/22

 PRE-TEST
 INSPECTION:
 (Test name)

S. Bennett

Date:

31/5/22

 SYSTEM TEST:
 (Name)

S. Bennett

Date:

21/7/22

 PRE-DESPATCH
 INSPECTION:
 (Name)

Hayes

Date:

17/8/22

P.A.T. Test results

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

Earth Continuity

0.076
 Ω

Insulation

>300
 $M\Omega$

Earth Leakage Current

0.30

mA. @

0.05

kVA.

Tested by:

P. Hayes

Date:

31/5/22

8 - Serial Numbers Record Document

Client:	Lehumit C/O: Gamidor Diagnostic Ltd		
Quotation Number:	15276	Date:	14/02/2022
Job Number:	IN1276 IN1279 82119122	Date:	09/03/2022

Units	S/N
MS/ABCA	20602/2022/1279
Integra 2	
Prep Unit 1	
Prep Unit 2/Misc	
Electronics Upgrade	
CETAC	10602-2022/1279
Gas Box	
Autosampler	
BCR	
Dual Heater Block	

Pump Kit and Optics	S/N
Turbo pump S	2218C311
Turbo pump A	
Rotary Pump	JP21404001
Voltage	110 / 240
Gauge S	LI2148F259
Gauge A	
Source	20101-193
Collector 1	20301-116
Collector 2	
Magnet	23-5-22 (2)

Parts	S/N
Fan PSU	
24V PSU	

Additional System Info:

PCBs	S/N
Electronics Box	20220006
Prep PCB	
VFC PCB	
Watchdog PCB	
Head Amp PCB 1	22014
Head Amp PCB 2	
Electromagnet RP	

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

PC	S/N
PC	026DD103
Monitor	GF2L4M3
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