

CONTENTS PAGE - ABCA2

Client:	San Filippo Neri Rome C/O: AB Analitica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
Job Number:	IN1355	Date:	09/01/2025

- ☒ 1 QUOTATION ✓
- ☒ 2 CUSTOMER ORDER ✓
- ☒ 3 MACHINE SPECIFICATION DOCUMENT_S027_v11 ✓
- ☒ 4 LOG SHEET_S028_v3 ✓
- ☒ 5 FAULT REPORTING DOCUMENT_S029_v3 ✓
- ☒ 6 TEST ACCEPTANCE SPECIFICATION_S031_v6 ✓
- ☒ 7 ASSEMBLY AND TEST RECORD_S023_v5 ✓
- ☒ 8 SERIAL NUMBER FORM_S053_v4 ✓
- ☒ 9 TEST DATA ✓
- ☒ 10 PACKING LIST_S080b_v3 ✓
- ☒ 11 INSTALLATION REPORT_S084_v3 ✓ *N/A Doc Agent Install*

ADDITIONAL:

Payment Terms:

50% / 40% / 10%

Other: please specify

Penalty Clause Yes / No

Please specify:

Blue Book Completion:

Signed	<i>[Signature]</i>	Date	8/5/25
Verified	<i>S. Massey</i>	Date	8/5/25

3 - MACHINE SPECIFICATION

Client:	San Filippo Neri Rome C/O: AB Analitica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
Job Number:	IN1355	Date:	09/01/2025

Approved by Sales: (Name)	<i>Joe Conner</i>	Date:	<i>9/1/25</i>
Approved by Tech.: (Name)	<i>S. Meyer</i>	Date:	<i>9/1/25</i>

3 - MACHINE SPECIFICATION

Client:	San Filippo Neri Rome C/O: AB Analitica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
Job Number:	IN1355	Date:	09/01/2025

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	
20603	ABCA IR Analyser	
70101-1	ABCA2 spares kit (<i>Inc. With ABCA2</i>)	
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 <i>Helicobacter pylori</i> infection	
SC9974	<i>Helicobacter</i> 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 & 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	
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	

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Quotation Number:	18635	Date:	13/11/2024
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SPECIFICATION REQUIREMENTS		
Voltage	Volts 50/60Hzs	
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	

4 - LOG SHEET

Client:	San Filippo Neri Rome C/O: AB Analitica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
Job Number:	IN1355	Date:	09/01/2025

Date	Action Taken	By Whom
4/9/24	UNIT PUMPED P.A.T. TESTED	P.H.
	UNIT PUMPED DOWN	P.H.
13-9	Versa Set up and positions configured He. turned on - Valco and Needle Flows set to 25 ml/min Naffion changed as no flow read CO ₂ turned on Ref. lance 2 crimped to between 5-10 ml/min	AD
16-9	Software Set to calibrate pumps, connected to Agilent - Set isolation valve crimp 3e-6 Worked on magnet position and tuning got a good peak shape. Challenged a test sample - 7.2e-8, opened iso crimp slightly now coming out at 1.7e-8. Peak shape sens now higher, crimped down valve 13 under 0.5 ml/min to give 1.4e-8. Test sample also gives 1.4e-8 Checked Breath and 5% for beam height - breath really low, 3e-9 but 5% ok - 1.1e-8. Extended drawing time by 2 seconds, checked needle depth - ok, checked pressure test - ok. checked syringe for leaks - ok Added in Valve 12 open and close in run	AD

6 - ABCA2 TEST / ACCEPTANCE SPECIFICATION

Customer:	San Filippo Neri Rome C/O: AB Analitica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
IN1355	IN1355	Date:	09/01/2025
Unit Serial Number	20602-2025/1355		
Gas Box Serial Number	60101/1-2025/1355		
Autosampler Serial Number			

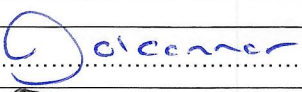
13C				
Ref Gas Injection Precision	100% CO ₂ (n=5)	≤0.1‰ 0.02 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Ref gas in tubes precision	10ml 5% CO ₂ (n=5)	≤0.1‰ 0.03 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Breath Precision	Breath in Exetainer (n=5)	≤0.2‰ 0.07 RECORD VALUE HERE	Test ☐ Sheet ☐	Install ☐ Sheet ☐
Sensitivity	10ml 5% CO ₂ in Exetainer	Major beam 5e-9 with trap of 150 136-08 RECORD VALUE HERE	Test ☒ Sheet ☐	Install ☐ Sheet ☐
Linearity	0.5% - 8.0% CO ₂ in Exetainer	≤0.3 ‰ change 0.25 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.:	☒ ☒ ☒ 800.14.0	Date	Initial

Flow Meter S/N...15102793... Leak Detector S/N...118443...

Multi-Meter S/N.....

Special Tests

Linearity to be better than 0.3‰ and recorded

Sales Signature: 	(Required)	Date: 31/1/2025
Test Signature: 	(Completed)	Date: 27/1/2025
Install Signature: N/A	(Completed)	Date:

Data to be transferred to:

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

7: ASSEMBLY AND TEST RECORD

Client:	San Filippo Neri Rome C/O: AB Analitica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
Job Number:	IN1355	Date:	09/01/2025

PRODUCT:

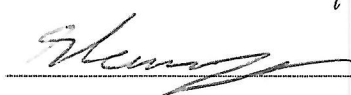
ASCA 2

SERIAL NUMBER:

20602-2025/1355

ASSEMBLED:

(Name)



Date:

19/8/24

 PRE-TEST
INSPECTION:

(Production name)

P. Hayes

Date:

19/8/24

 PRE-TEST
INSPECTION:

(Test name)



Date:

19/8/24

SYSTEM TEST:

(Name)



Date:

27/1/25

 PRE-DESPATCH
INSPECTION:

(Name)

P. Hayes

Date:

29/1/25

P.A.T. Test results

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

Earth Continuity

 0.071 Ω

Insulation

 7300 $M\Omega$

Earth Leakage Current

1.65 mA. @ 0.12 kVA.

Tested by:

P. Hayes

Date:

4/9/24



Client:	San Filippo Neri Rome C/O: AB Analitica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
Job Number:	IN1355	Date:	09/01/2025

VERSA 1

60101/1-2025/1355

P. Hayes

19/8/24

[Handwritten signature]

19/8/24



19/8/24



27/1/25

P. Hayes

29/1/25

A graph showing a curve starting from the origin and increasing at an increasing rate, labeled with the Greek letter Omega (Ω).

 $M\Omega$

mA. @ kVA.

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8 - Serial Numbers Record Document

Client:	San Filippo Neri Rome C/O: AB Analytica s.r.l.		
Quotation Number:	18635	Date:	13/11/2024
Job Number:	IN1355	Date:	09/01/2025

Units	S/N
MS/ABCA	20602-2025/1355
Integra 2	
Prep Unit 1	
Prep Unit 2/Misc	
Electronics Upgrade	
CETAC	6010/1-2025/1355
Gas Box	
Autosampler	
BCR	
Dual Heater Block	

Pump Kit and Optics	S/N
Turbo pump S	1T24191055
Turbo pump A	
Rotary Pump	JP2246 V047
Voltage	110 / 240
Gauge S	42306 F020
Gauge A	
Source	20102-249
Collector 1	20301-165
Collector 2	
Magnet	18-7-23 6

Parts	S/N
Fan PSU	
24V PSU	

PCBs	S/N
Electronics Box	20240009
Prep PCB	
VFC PCB	
Watchdog PCB	
Head Amp PCB 1	24002
Head Amp PCB 2	
Electromagnet RP	

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

PC	S/N
PC	GNMF324
Monitor	2B9QWW3
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:

Packing List

Reference: 24/00

Shipper / Exporter:

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

Tel: +44 (0) 1270 580008
Reference: IN1355

Consignee:

AB Analitica s.r.l.
Via Svizzera 13-16
35127 Padova
ITALY

Email: mossel@abanalitica.it

Contact Name: Eric Mossel
Contact Tel Number: +39049761698

BOX: 1

Quantity	Product Code	Product Description	Serial Number: if available
 1	20602	ABCA	20602-2025/1355

Packed by:

P. Hayro

Date:

29/1/25

Claims for damage or shortages must be made within 3 days

Packing List

Reference: 24/00

Shipper / Exporter:

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

Tel: +44 (0) 1270 580008
Reference: IN1355

Consignee:

AB Analitica s.r.l.
Via Svizzera 13-16
35127 Padova
ITALY

Email: mossel@abanalitica.it

Contact Name: Eric Mossel
Contact Tel Number: +39049761698

BOX: 2

Quantity	Product Code	Product Description	Serial Number: if available
☒ 1		Rotary pump cable. (In cable box)	
☒ 1		Agilent Rotary Pump (Filter and oil in box)	IT24191055
☒ 1		Permanent Magnet + feet	18-7-23 6
☒ 4		Euro Mains Cables (In cable box)	
☒ 1		Ribbon Cable - to gas box (In cable box)	
☒ 1		Flow Cable - to gas box (In cable box)	
☒ 1	70101-1	ABCA Spares Kit	
☒ 1		Versa needle	
☒ 1		Versa PSU (In Cable box)	
☒ 1		PC	
☒ 1		Monitor	
☒ 1		Window Recovery Drive (In pc box)	
☒ 1		Software back up drive (In pc box)	
☒ 1		Electronic Manuals (On software back up drive)	
☒ 3		30 thou connection pipes	

Packed by:

Date:

P. Hays
29/1/25

Claims for damage or shortages must be made within 3 days

Packing List

Reference: 24/00

Shipper / Exporter:

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

Tel: +44 (0) 1270 580008
 Reference: IN1355

Consignee:

AB Analitica s.r.l.
 Via Svizzera 13-16
 35127 Padova
 ITALY

Email: mossel@abanalitica.it

Contact Name: Eric Mossel
 Contact Tel Number: +39049761698

BOX: 3

Quantity	Product Code	Product Description	Serial Number: if available
☒ 1	60101/1	Versa 1	60101/1-2025/1355
☒ 5		Versa racks (On versa)	

Packed by: P. Mayo

Date: 29/1/25

Claims for damage or shortages must be made within 3 days

Packing List

Reference: 24/00

Shipper / Exporter:

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

Tel: +44 (0) 1270 580008
Reference: IN1355

Consignee:

AB Analitica s.r.l.
Via Svizzera 13-16
35127 Padova
ITALY

Email: mossel@abanalitica.it

Contact Name: Eric Mossel
Contact Tel Number: +39049761698

BOX: Dimensions and weights

	<u>L</u>	x	<u>W</u>	x	<u>H</u>	cm	gw	kg
Box 1	<u>86</u>	x	<u>96</u>	x	<u>98</u>	cm	gw <u>108</u>	kg
Box 2	<u>86</u>	x	<u>99</u>	x	<u>107</u>	cm	gw <u>75</u>	kg
Box 3	<u>86</u>	x	<u>99</u>	x	<u>107</u>	cm	gw <u>74</u>	kg

Packing List

Reference: 24/00

Shipper / Exporter:

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

Tel: +44 (0) 1270 580008
Reference: IN1355

Consignee:

AB Analitica s.r.l.
Via Svizzera 13-16
35127 Padova
ITALY

Email: mossel@abanalitica.it

Contact Name: Eric Mossel
Contact Tel Number: +39049761698

BOX: Dimensions and weights

	<u>L</u>	x	<u>W</u>	x	<u>H</u>	cm	gw	kg
Box 1	<u>86</u>	x	<u>96</u>	x	<u>98</u>	cm	<u>108</u>	kg
Box 2	<u>86</u>	x	<u>99</u>	x	<u>107</u>	cm	<u>75</u>	kg
Box 3	<u>86</u>	x	<u>99</u>	x	<u>107</u>	cm	<u>74</u>	kg