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| Job Number:       | IN1306               | Date: | 22/03/2023 |

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### ADDITIONAL:

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

Penalty Clause Yes / No  
 Please specify: \_\_\_\_\_

### Blue Book Completion:

|          |                   |      |         |
|----------|-------------------|------|---------|
| Signed   | <i>Joe Connor</i> | Date | 28/3/24 |
| Verified | <i>S. Masel</i>   | Date | 24/4/24 |

### 3 - MACHINE SPECIFICATION

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| Ref No.                         | Product Description                                        | Required |
|---------------------------------|------------------------------------------------------------|----------|
| <b>HS2022</b> (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              | Y        |
| 20501                           | Hd Collector Assy ***                                      |          |
| 50101/2                         | Trapping Loop Assy                                         |          |
| 70201-1                         | 70201-1 Analyser spares kit – Included                     | Y        |
| <b>EA Units</b>                 |                                                            |          |
| 10202/11                        | iso-EArth                                                  |          |
| 10202/13                        | iso-EArth+                                                 |          |
| 10202/14                        | PyroEArth                                                  | Y        |
| 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.)                                     | Y        |
| 70501-4                         | GSL Combustion and Gas C & N Start Up Kit                  |          |
| 70501-5                         | Simultaneous NCS Consumables Kit                           | Y        |
| 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                              |          |
| <b>Headspace Equilibration</b>  |                                                            |          |
| 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)                     |          |
| <b>GC Units</b>                 |                                                            |          |
| 10402/2                         | Orchid module 1500C (Will run Hd 70901-1 C Spares Kit Inc) | Y        |
| 10901                           | Nitrogen Option (71301-1 N Spares kit Included)            | Y        |
| 8890/1                          | Agilent 7890B GC System                                    |          |
| 8890/2                          | Agilent 7890B GC with Auto Injector                        |          |
| 8890/3                          | Agilent 8890 GC + Auto Injector + 150 Vial Sample Tray     | Y        |
| SI2561                          | Nexis GC 2010 Plus                                         |          |

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| Ref No.                          | Product Description                                        | Required |
|----------------------------------|------------------------------------------------------------|----------|
| <b>GC Units</b> <i>continued</i> |                                                            |          |
| 70901-1                          | GC-CP Combustion Spares kit                                | Y        |
| 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                                            | Y        |
| <b>ABCA2 Units</b>               |                                                            |          |
| 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 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)         |          |
| <b>Integra2 Units</b>            |                                                            |          |
| 20802/4                          | Integra2                                                   |          |
| 70201-2                          | Integra2 analyser spares kit - Included                    |          |
| 70401-1                          | Integra-2 consumables ( <i>Inc. With Integra2</i> )        |          |
| <b>Trace Gas Systems</b>         |                                                            |          |
| 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                                    |          |
| <b>TOC Units</b>                 |                                                            |          |
| 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                                 |          |
|                                  |                                                            |          |
|                                  |                                                            |          |
|                                  |                                                            |          |
| <b>GEO 20-22 (dual inlet)</b>    |                                                            |          |
| 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      |  |
| <b>HT-EA</b> |                                                               |  |
| 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            |
|------------------|---------------------------------------------------------------------------------|---------------------|
| <b>Upgrades</b>  |                                                                                 |                     |
| 12101            | Evacuation System ***                                                           |                     |
| 12102            | 2 Ref Gas+ Dilutor Box ***                                                      |                     |
| 20101            | Standard Source Assy ***                                                        |                     |
| 20102            | HS Source Assy ***                                                              | Y                   |
| 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          | Y                   |
| 30302/6          | nEXT85 Edwards Pumping System Upgrade Triple- installation not included         |                     |
| SI2542           | ABCA2 Upgrade Kit                                                               |                     |
| CALLISTOW        | Callisto software upgrade ***                                                   |                     |
| <b>Specials</b>  |                                                                                 |                     |
| 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                                                         |                     |
| <b>ADDITIONS</b> |                                                                                 |                     |
| PC               | Windows 7 based PC System with Callisto Software                                | Y                   |
| Printer          | Printer                                                                         |                     |
| INST1            | Installation and start up training at customer's site by <b>Sercon</b> Engineer | Y                   |
| INST2            | Installation and start up training at customer's site by <b>Agents</b> 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                                           |                     |

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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       | Y |
|                            | 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 | Y |
|                            | Complies with all Export Requirements              |   |

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[illegible]

|                                    |  |                  |
|------------------------------------|--|------------------|
| Approved by Sales: Garry Armstrong |  | Date: 23/03/2023 |
| Approved by Tech.: Mark O'Connor   |  | Date: 23/03/2023 |

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S028 v3



## 6 - TEST / ACCEPTANCE SPECIFICATION

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### HS20-22

#### Reference Gas Precision (n=5)

|                 |                    |      |       |   |
|-----------------|--------------------|------|-------|---|
| <sup>13</sup> C | (CO <sub>2</sub> ) | 0.06 | 0.02‰ | ✓ |
| <sup>15</sup> N |                    | 0.06 | 0.03‰ | ✓ |
| <sup>18</sup> O | (CO <sub>2</sub> ) | 0.06 | 0.04‰ | ✓ |
| <sup>34</sup> S | (SO <sub>2</sub> ) | 0.1  |       | ✓ |
| <sup>2</sup> H  |                    | 0.4  | 0.07‰ | ✓ |

#### Reference Gas Linearity

|                 |           |       |   |
|-----------------|-----------|-------|---|
| <sup>13</sup> C | ≤0.02‰/nA | 0.15‰ | ✓ |
| <sup>15</sup> N | ≤0.02‰/nA | 0.18‰ | ✓ |

### IsoEarth & IsoEarth+

#### Combustion (n=5)

|                 |          |      |       |   |          |      |  |
|-----------------|----------|------|-------|---|----------|------|--|
| <sup>13</sup> C | 100 µg C | 0.1  | 0.09‰ | ✓ | 10 µg C  | 0.8  |  |
| <sup>15</sup> N | 100 µg N | 0.15 | 0.11‰ | ✓ | 10 µg N  | 1.5  |  |
| <sup>34</sup> S | 25 µg S  | 0.3  | 0.02‰ | ✓ | 10 µg S  | 1.0  |  |
| Dual            | 400 µg C | 0.1  |       |   | 100 µg N | 0.15 |  |

### Integra2

|                 |                     |            |  |
|-----------------|---------------------|------------|--|
| <sup>13</sup> C | 100 µg C            | 0.2        |  |
| <sup>15</sup> N | 100 µg N            | 0.3        |  |
| Dual            | 100 µg N & 400 µg C | 0.4 & 0.15 |  |
| <sup>34</sup> S | 30 µg S             | 0.5        |  |
| <sup>18</sup> O | 100 µg O            | 0.5        |  |

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| HT-EA           |                        |     |       |   |
|-----------------|------------------------|-----|-------|---|
| Pyrolysis (n=5) |                        |     |       |   |
| <sup>18</sup> O | 100 µg O or 1 µl water | 0.3 | 0.06‰ | ✓ |
| <sup>2</sup> H  | 200 µg H or 1 µl water | 1.0 | 0.3‰  | ✓ |

| Aqua, µCarbs & GasBox |                          |      |  |                          |     |  |
|-----------------------|--------------------------|------|--|--------------------------|-----|--|
| Equilibrations (n=5)  |                          |      |  |                          |     |  |
| <sup>18</sup> O       | 0.2 ml water             | 0.1  |  |                          |     |  |
| <sup>2</sup> H        | 0.2 ml water             | 2.0  |  |                          |     |  |
| Carbonates (n=5)      |                          |      |  |                          |     |  |
| <sup>13</sup> C       | 100 µg CaCO <sub>3</sub> | 0.08 |  |                          |     |  |
| <sup>18</sup> O       | 100 µg CaCO <sub>3</sub> | 0.1  |  |                          |     |  |
| Gas Analysis (n=5)    |                          |      |  |                          |     |  |
| <sup>13</sup> C       | 5% CO <sub>2</sub>       | 0.1  |  | Air CO <sub>2</sub>      | 0.1 |  |
| <sup>18</sup> O       | 5% CO <sub>2</sub>       | 0.1  |  | Air CO <sub>2</sub>      | 0.2 |  |
| <sup>2</sup> H        | 0.5 ml H <sub>2</sub>    | 1.5  |  |                          |     |  |
| <sup>15</sup> N       | 0.5 ml N <sub>2</sub>    | 0.1  |  | 100 ppm N <sub>2</sub> O | 0.5 |  |
| <sup>13</sup> C       | Breath (12 ml)           | 0.1  |  |                          |     |  |
| DIC (n=5)             |                          |      |  |                          |     |  |
| <sup>13</sup> C       | 15ppm (0.5ml)            | 0.15 |  |                          |     |  |

| LC-I            |  |     |  |  |
|-----------------|--|-----|--|--|
| (n=5)           |  |     |  |  |
| <sup>13</sup> C |  | 0.2 |  |  |

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

| CryoRange       |                            |      |  |                              |     |  |
|-----------------|----------------------------|------|--|------------------------------|-----|--|
| (n=5)           |                            |      |  |                              |     |  |
| <sup>13</sup> C | Air CO <sub>2</sub> (12ml) | 0.1  |  | Air CH <sub>4</sub> (125ml)  | 0.2 |  |
| <sup>15</sup> N | Air N <sub>2</sub> (1ml)   | 0.1  |  | Air N <sub>2</sub> O (125ml) | 0.4 |  |
| <sup>18</sup> O | Air CO <sub>2</sub> (12ml) | 0.15 |  | Air N <sub>2</sub> O (125ml) | 0.7 |  |
| <sup>18</sup> O | Air O <sub>2</sub> (1ml)   | 0.1  |  |                              |     |  |
| <sup>2</sup> H  | Air CH <sub>4</sub>        | 3.0  |  |                              |     |  |
| <sup>13</sup> C | TOC (5ppm)                 | 0.4  |  |                              |     |  |
| <sup>13</sup> C | Laser                      |      |  |                              |     |  |

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| Geo2                                         |                         |       |  |
|----------------------------------------------|-------------------------|-------|--|
| Internal precision (no change overs)         |                         |       |  |
| <sup>2</sup> H                               | 200 Bar µl              | 0.15  |  |
| <sup>13</sup> C                              | 100 Bar µl              | 0.01  |  |
| <sup>15</sup> N                              | 100 Bar µl              | 0.01  |  |
| <sup>18</sup> O                              | 100 Bar µl              | 0.015 |  |
| <sup>34</sup> S                              | 100 Bar µl              | 0.015 |  |
| Single cold finger volumes (10 change overs) |                         |       |  |
| <sup>13</sup> C                              | 20 Bar µl               | 0.01  |  |
| <sup>18</sup> O                              | 20 Bar µl               | 0.015 |  |
| <sup>13</sup> C                              | 3 Bar µl                | 0.02  |  |
| <sup>18</sup> O                              | 3 Bar µl                | 0.03  |  |
| CAPS (n=5)                                   |                         |       |  |
| <sup>13</sup> C                              | 50 µg CaCO <sub>3</sub> | 0.03  |  |
| <sup>18</sup> O                              | 50 µg CaCO <sub>3</sub> | 0.06  |  |
| WES (n=5)                                    |                         |       |  |
| <sup>2</sup> H                               |                         | 1.0   |  |
| <sup>18</sup> O                              |                         | 0.05  |  |
| Manifold (10 tubes)                          |                         |       |  |
| <sup>2</sup> H                               |                         | 0.5   |  |
| <sup>13</sup> C                              |                         | 0.02  |  |
| <sup>15</sup> N                              |                         | 0.02  |  |
| <sup>18</sup> O                              |                         | 0.03  |  |
| <sup>34</sup> S                              |                         | 0.03  |  |



Test acceptance - 6

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

## 6 - TEST / ACCEPTANCE SPECIFICATION

|                   |                      |       |            |
|-------------------|----------------------|-------|------------|
| Customer:         | Oritain, New Zealand |       |            |
| Quotation Number: | 16760                | Date: | 13/03/2023 |
| Job Number:       | IN1306               | Date: | 22/03/2023 |

| Special tests |
|---------------|
|               |
|               |
|               |
|               |
|               |
|               |
|               |
|               |

Sales Signature: *[Signature]*

Date: *5/7/23*

Test Signature: *S. Mosely*

Date: *05/7/23*

## 7: ASSEMBLY AND TEST RECORD

|                   |                      |       |            |
|-------------------|----------------------|-------|------------|
| Client:           | Oritain, New Zealand |       |            |
| Quotation Number: | 16760                | Date: | 13/03/2023 |
| Job Number:       | IN1306               | Date: | 22/03/2023 |

PRODUCT:

PYRO-EARTH

SERIAL NUMBER:

10202/14-2023/1306

 ASSEMBLED:  
 (Name)

A. B.

Date:

9/5/23

 PRE-TEST  
 INSPECTION:  
 (Production name)

P. Hays

Date:

16/5/23

 PRE-TEST  
 INSPECTION:  
 (Test name)

S. Masdy

Date:

16/5/23

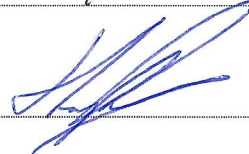
 SYSTEM TEST:  
 (Name)

S. Masdy

Date:

29/6/23

 PRE-DESPATCH  
 INSPECTION:  
 (Name)



Date:

30/06/23

### P.A.T. Test results

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

Earth Continuity

0.071

Ω

Insulation

&gt; 300

MΩ

Earth Leakage Current

1.17

mA. @

0.05

kVA.

Tested by:

S. M.

Date:

16/5/23

## 7: ASSEMBLY AND TEST RECORD

|                   |                      |       |            |
|-------------------|----------------------|-------|------------|
| Client:           | Oritain, New Zealand |       |            |
| Quotation Number: | 16760                | Date: | 13/03/2023 |
| Job Number:       | IN1306               | Date: | 22/03/2023 |

PRODUCT:

ORCHID UNIT

SERIAL NUMBER:

10402/2-2023/1306

 ASSEMBLED:  
 (Name)

P. Hayes

Date:

29/5/23

 PRE-TEST  
 INSPECTION:  
 (Production name)

[Signature]

Date:

30/05/23

 PRE-TEST  
 INSPECTION:  
 (Test name)

S. Massey

Date:

30/5/23

 SYSTEM TEST:  
 (Name)

S. Massey

Date:

29/6/23

 PRE-DESPATCH  
 INSPECTION:  
 (Name)

[Signature]

Date:

30/06/23

### P.A.T. Test results

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

Earth Continuity

0.070
 $\Omega$ 

Insulation

>300
 $M\Omega$ 

Earth Leakage Current

1.15

mA. @

0.05

kVA.

Tested by:

P. Hayes

Date:

29/5/23

## 7: ASSEMBLY AND TEST RECORD

|                   |                      |       |            |
|-------------------|----------------------|-------|------------|
| Client:           | Oritain, New Zealand |       |            |
| Quotation Number: | 16760                | Date: | 13/03/2023 |
| Job Number:       | IN1306               | Date: | 22/03/2023 |

PRODUCT:

HS2020

SERIAL NUMBER:

20402/4-2023/1306.

 ASSEMBLED:  
 (Name)




Date:

9/5/23

 PRE-TEST  
 INSPECTION:  
 (Production name)




Date:

9/5/23

 PRE-TEST  
 INSPECTION:  
 (Test name)



Date:

9/5/23

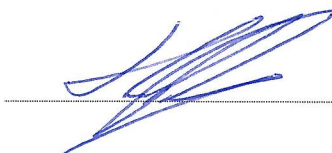
 SYSTEM TEST:  
 (Name)



Date:

29/8/23

 PRE-DESPATCH  
 INSPECTION:  
 (Name)



Date:

30/06/23

### P.A.T. Test results

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

Earth Continuity

0.70 Ω

Insulation

&gt; 300 MΩ

Earth Leakage Current

1.14 mA. @ \_\_\_\_\_ kVA.

Tested by:



Date:

29/5/23

## 8 - Serial Numbers Record Document

|                   |                      |       |            |
|-------------------|----------------------|-------|------------|
| Client:           | Oritain, New Zealand |       |            |
| Quotation Number: | 16760                | Date: | 13/03/2023 |
| Job Number:       | IN1306               | Date: | 22/03/2023 |

| Units               | S/N                |
|---------------------|--------------------|
| MS/ABCA             | 20402/4-2023/1306  |
| Integra 2           |                    |
| Prep Unit 1         | 10202/14-2023/1306 |
| Prep Unit 2/Misc    | 10402/2-2023/1306  |
| Electronics Upgrade |                    |
| CETAC               |                    |
| Gas Box             |                    |
| Autosampler         | 42675              |
| BCR                 |                    |
| Dual Heater Block   |                    |

| Pump Kit and Optics | S/N         |
|---------------------|-------------|
| Turbo pump S        | 230048837   |
| Turbo pump A        | 230048834   |
| Rotary Pump         | 230323472   |
| Voltage             | 110 / 240   |
| Gauge S             | 230067288   |
| Gauge A             | 230067290   |
| Source              | 20101MS-215 |
| Collector 1         | 20301-136   |
| Collector 2         | 20501-064   |
| Magnet              | 138         |

| Parts   | S/N |
|---------|-----|
| Fan PSU |     |
| 24V PSU |     |

| PCBs             | S/N               |
|------------------|-------------------|
| Electronics Box  | 20230011<br>ISO-E |
| Prep PCB         | 20230009 0009     |
| VFC PCB          | 23003 20230007    |
| Watchdog PCB     |                   |
| Head Amp PCB 1   | 23005             |
| Head Amp PCB 2   | 22008             |
| Electromagnet RP |                   |

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

| PC      | S/N     |
|---------|---------|
| PC      | 3PPQxt3 |
| Monitor | CGVWFMB |
| 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:

P10EA1th 10202/14-2023/1306