

| TECHNICAL SUBMITTAL APPROVAL FORM | | | | |
|--|---|---------------|------------------------------|-------------------------|
| Subcontractor / Supplier: Lorne Stewart Works Package: F301 | | | Project: Centre Point | |
| Tech Sub Ref No: F301-TS-019 | | Rev: 2 | Date: 20/05/16 | |
| Title | <i>Retail Kitchen Air Handling Units</i> | | | |
| Floor/ Location: | Sub-Basement AHU Plantroom & Level 2 Podium of CPH | | | |
| Specification Reference: | Section 7 of the Mechanical Specification rev 11 | | | |
| Other: | | | | |
| Submittal Notes: | | | | |
| <p>All attenuators for these units will be submitted for approval via a separate tech sub.</p> <p>The architects and structural engineers are deemed to have reviewed this and the previous revision of this tech sub and should be aware of the dimensions and weights of the units.</p> <p>We have carried out the coordination of the plantrooms for the AHU'S listed in this tech sub and can confirm that they all fit within the spaces provided.</p> <p>LS can confirm that Units R01 to 04 are all external units.</p> | | | | |
| Signed: | | On behalf of: | ARCHITECT | Date: |
| Status: A B C (circle one) | | | | |
| Comment: | | | | |
| Signed: | G Pavey | On behalf of: | GMJ | Date: 31/05/2016 |
| Status: A (B) C (circle one) | | | | |
| Comment: | All fan external static pressures shall be reviewed and confirmed by LS in accordance with the mechanical specification, Section 1.14.3. Sandy Browns comments on included acoustic data to follow. | | | |
| Signed: | | On behalf of: | CMT (GMJ) | Date: |
| Status: A B C (circle one) | | | | |
| Comment: | | | | |
| Signed: | | On behalf of: | CMT (CP/(RMA) | Date: |
| Status: A B C (circle one) | | | | |
| Comment: | | | | |
| Signed: | P. Watts | On behalf of: | BMCE | Date: 16/6/16 |
| FINAL STATUS: A (B) C (circle one) | | | | |

1 - Technical Submission Front Page

| | | | |
|--------------------------|---------------|-------|----------|
| Trade Contractor: | Lorne Stewart | From: | P. Stone |
| Trade Contractor Sub No: | F301 | Date: | 20-05-16 |

Approval of the following equipment is required:

| | | | |
|-----------------------|----------------------------|-----------------|----------------|
| Equipment: | Kitchen Air Handling Units | Make : | Halton |
| Equipment References: | AHU/R01 – R06 | Areas Used: | As sheet above |
| Description: | | | |
| Planned On Site Date: | June 2016 | Fully Compliant | Yes |

Attached detail documents:

(Tick if included and insert references within boxes identifying supporting documentation included within this submission)

| Description | Tick | Doc Ref | Description | Tick | Doc Ref |
|---|------|---------|--------------------------------------|------|---------|
| Technical submission front sheet | ✓ | | Interfaces and Dependencies Schedule | ✓ | |
| Specification & Technical Schedule Compliance | ✓ | | Builders Work Requirements | ✓ | |
| Certified Performance Levels | | | O&M Information | | |
| Manufacturers Information | ✓ | | List of recommended spares | ✓ | |
| Manufacturers Drawings | ✓ | | Other | | |
| | | | | | |

| | |
|-----------------------------|-------------------|
| Signed by Trade Contractor: | <i>Paul Stone</i> |
| Date: 20.05.16 | |

Approval (Note that approval and status of all technical submissions is to be given through the Aconex process. This section is included for cases where it is expedient to provide a paper sign off of the front sheet however in all such cases the consultant must attach this form to the TS on Aconex)

| Company | Sign | Date | Status | Comments |
|---------|------|------|--------|----------|
| BMCE | | | | |

2 – Specification & Non- Compliance Schedule

The equipment offered is from the specified manufacturer and meets the intention of mechanical specification rev 11, in particular section 7, apart from the following items:

- Plug fans included not belt driven
- Sizes of the units vary from specification
- Weights of the units vary from specification



3 – Manufacturers Information

Enclosed



TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | | | | | |
|---|--|---|---------------------------|------------------|-------------|-------------|--------|
| Date | Project No. | Project Reference | | Unit No. | | | |
| 25/03/2015 | 22917 | CENTRE POINT | | KITCHE~2 | | | |
| Customer | Rev Date | Customer Reference | | Air Volume | | | |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract 05 | | 5.9 m3/s | | | |
| External Pressure | External Static Pressure appears low. LS to review & confirm | | | Exhaust Velocity | | | |
| 300 Pa | | | | 2.09 m/s | | | |
| Panel Thickness | Panel Insulation | Aluminium Framework | | Frame Coating | | | |
| 0.00 mm | | | | Unpainted | | | |
| Panel External Sheet | Panel Internal Sheet | Base Frame | | Unit Location | | | |
| | | 100mm High Channel Base - 3mm Sheet Steel | | External | | | |
| Access Side | Unit Model | Roof Type | | Reinforced Floor | | | |
| Right | | None | | None | | | |
| SECTION WEIGHTS AND DIMENSIONS | | | | | | | |
| Section No. | Length | Width | Height | Weight | | | |
| A | 1540 mm | 1930 mm | 1750 mm | 529 kg | | | |
| B | 800 mm | 1930 mm | 1750 mm | 668 kg | | | |
| C | 2060 mm | 1930 mm | 1750 mm | 669 kg | | | |
| OVERALL UNIT DIMENSIONS AND CENTRE OF GRAVITY | | | | | | | |
| Length | Width | Height | Weight | COG X | | | |
| 4400 mm | 1930 mm | 1750 mm | 1865 kg | 2387 mm | | | |
| 001 INLET SECTION | | | | | | | |
| Air Flow | Air Velocity | Pressure Drop | Model | Dimension | | | |
| 5.92 m ³ /s | 2.09 m/s | 0 Pa | 110 | 1830 x 1550 mm | | | |
| Damper | Flexible Connection | Louvre | Actuator | | | | |
| Yes | No | No | No | | | | |
| 002 PANEL AND BAG FILTER | | | | | | | |
| Velocity | Class | Type | Model | Withdrawal | Qty Size 1 | Qty Size 2 | Length |
| 2.26 m/s | G4 | Panel | Pleated Disposable | Side | 6x592x592 | 3x592x292 | 100 mm |
| 2.26 m/s | F8 | Bag | Microfine GF Bag 22" | Side | 6x592x592 | 3x592x292 | 550 mm |
| 002 ACCESSORIES | | | | | | | |
| Fitted Touch Screen | | | | | | | |
| 002 ACCESS DOOR | | | | | | | |
| Dimension | | | | Type | | | |
| 580 x 1650 mm | | | | Liftoff door | | | |
| 003 HEPA FILTER | | | | | | | |
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2.26 m/s | H10 | HEPA | HEPA | Front | 6 / 592x592 | 3 / 592x292 | 300 mm |
| 003 ACCESS DOOR | | | | | | | |
| Dimension | | | | Type | | | |
| 500 x 1650 mm | | | | Liftoff door | | | |
| 004 CARBON FILTER | | | | | | | |
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2.19 m/s | Carbon | Carbon | 30mm Carbon Filter Matrix | Side | 6 / 600x600 | 3 / 600x300 | 600 mm |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|--------------------|------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract 05 | 5.9 m3/s |
| External Pressure | External Static Pressure appears low. LS to review & confirm | Exhaust Velocity | |
| 300 Pa | | 2,09 m/s | |

| DOOR | |
|---------------|--------------|
| Dimension | Type |
| 700 x 1650 mm | Liftoff door |

| 005 PLENUM FAN | | | | | | | | | |
|------------------------------------|----------------------------|--------------|--------|-------------------------------------|-------|-------|-------|-------|--|
| Fan Type | Wheel Type | Drive Type | | | | | | | |
| Plenum | Backward Curve | Direct Drive | | | | | | | |
| Model | Impeller Diam. | Abs Power | | | | | | | |
| ER80C-4DN.K7.1R-130549/0201 | 800 mm | 10,17 kW | | | | | | | |
| Quantity | Duty % Per Fan | Poles | | | | | | | |
| 1 | Single Fan | 4 | | | | | | | |
| Air Flow Volume | Outlet Velocity | Motor Speed | | | | | | | |
| 5,92 m³/s | 1,8 m/s | 1465 rpm | | | | | | | |
| Ext Static Pressure | Fan Speed | Power | | | | | | | |
| 300,00 Pa | 1234 rpm | 15,00 kW | | | | | | | |
| Unit Static Pressure | Static Efficiency | FLC | | | | | | | |
| 1052,00 Pa | 61,21 % | 28,55 A | | | | | | | |
| Fan Total Pressure | VSD | Volts/Ph/Hz | | | | | | | |
| 1117 Pa | Automatic (DOL/Star delta) | 380/3/50 | | | | | | | |
| Frequency | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz | |
| Inlet (1) | 45 | 66 | 70 | 76 | 82 | 83 | 78 | 72 | |
| Outlet (2) | 53 | 71 | 77 | 87 | 88 | 88 | 81 | 75 | |
| (1) SWL INSIDE The Inlet Duct (dB) | | | | (2) SWL INSIDE The Outlet Duct (dB) | | | | | |

| 005 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 780 x 1650 mm | Liftoff door |

| AHU ACOUSTIC DATA EXHAUST SECTION | | | | | | | | | |
|-----------------------------------|-------|-------|-------|------|------|------|------|---------------|---------------------------|
| Frequency | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Overall dB(A) | Description |
| | 71 | 77 | 87 | 88 | 88 | 81 | 75 | 93 | Outlet Sound Power(dB) |
| | 66 | 70 | 76 | 82 | 83 | 78 | 72 | 87 | Inlet Sound Power(dB) |
| | 71 | 77 | 87 | 88 | 88 | 81 | 75 | 93 | Airborne sound power (dB) |

| SPECIFIC FAN POWER | | | |
|---------------------|--------------|--|-------------|
| Supply Fan | | | Extract Fan |
| Filter Conditions | | | Clean |
| Absorbed Power | NaN Kw | | 5.86 Kw |
| Drive Efficiency | NaN% | | 100% |
| Inverter Efficiency | NaN% | | 98% |
| Motor Efficiency | NaN% | | 100% |
| Air Volume | m³/s | | 5.92 m³/s |
| AHU SFP | 1,01 Kw/m³/s | | |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|---------------------|------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R04 | 6.8 m3/s |
| External Pressure | External Static Pressure is very low. LS to review and confirm | | Exhaust Velocity |
| 35 Pa | | | 2,38 m/s |

| UNIT CONSTRUCTION | | | |
|----------------------|----------------------|---|------------------|
| Panel Thickness | Panel Insulation | Aluminium Framework | Frame Coating |
| 0,00 mm | | | Unpainted |
| Panel External Sheet | Panel Internal Sheet | Base Frame | Unit Location |
| | | 100mm High Channel Base - 3mm Sheet Steel | Internal |
| Access Side | Unit Model | Roof Type | Reinforced Floor |
| Right | | None | None |

| SECTION WEIGHTS AND DIMENSIONS | | | | |
|--------------------------------|---------|---------|---------|--------|
| Section No. | Length | Width | Height | Weight |
| A | 1540 mm | 1930 mm | 1750 mm | 529 kg |
| B | 800 mm | 1930 mm | 1750 mm | 668 kg |
| C | 2060 mm | 1930 mm | 1750 mm | 738 kg |

| OVERALL UNIT DIMENSIONS AND CENTRE OF GRAVITY | | | | |
|---|---------|---------|---------|---------|
| Length | Width | Height | Weight | COG X |
| 4400 mm | 1930 mm | 1750 mm | 1935 kg | 2339 mm |

| 001 INLET SECTION | | | | |
|------------------------|---------------------|---------------|----------|----------------|
| Air Flow | Air Velocity | Pressure Drop | Model | Dimension |
| 6.75 m ³ /s | 2,38 m/s | 0 Pa | 110 | 1830 x 1550 mm |
| Damper | Flexible Connection | Louvre | Actuator | |
| Yes | No | No | No | |

| 002 PANEL AND BAG FILTER | | | | | | | |
|--------------------------|-------|-------|----------------------|------------|------------|------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty Size 1 | Qty Size 2 | Length |
| 2,57 m/s | G4 | Panel | Pleated Disposable | Side | 6x592x592 | 3x592x292 | 100 mm |
| 2,57 m/s | F8 | Bag | Microfine GF Bag 22" | Side | 6x592x592 | 3x592x292 | 550 mm |

| 002 ACCESSORIES |
|---------------------|
| Fitted Touch Screen |

| 002 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 580 x 1650 mm | Liftoff door |

| 003 HEPA FILTER | | | | | | | |
|-----------------|-------|------|-------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2,57 m/s | H10 | HEPA | HEPA | Front | 6 / 592x592 | 3 / 592x292 | 300 mm |

| 003 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 500 x 1650 mm | Liftoff door |

| 004 CARBON FILTER | | | | | | | |
|-------------------|--------|--------|---------------------------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2,50 m/s | Carbon | Carbon | 30mm Carbon Filter Matrix | Side | 6 / 600x600 | 3 / 600x300 | 600 mm |

TECHNICAL SPECIFICATION SHEET

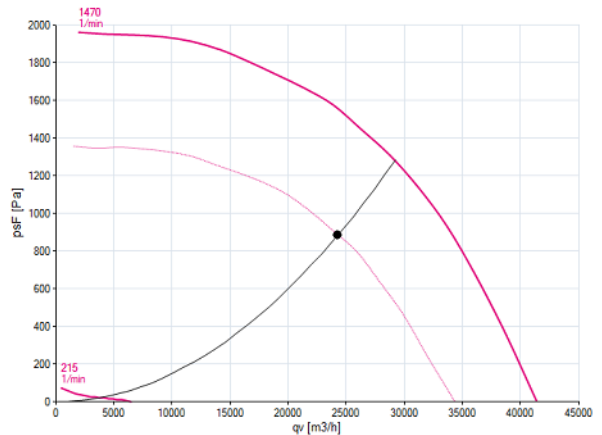
Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|---------------------|------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R04 | 6.8 m3/s |
| External Pressure | External Static Pressure is very low. LS to review and confirm | Exhaust Velocity | |
| 35 Pa | | 2,38 m/s | |

| ACCESS DOOR | |
|---------------|--------------|
| Dimension | Type |
| 700 x 1650 mm | Liftoff door |

| 005 PLENUM FAN | | | | | | | | | |
|------------------------------------|----------------------------|--------------|--------|-------------------------------------|-------|-------|-------|-------|--|
| Fan Type | Wheel Type | Drive Type | | | | | | | |
| Plenum | Backward Curve | Direct Drive | | | | | | | |
| Model | Impeller Diam. | Abs Power | | | | | | | |
| ER80C-4DN.K7.1R-130549/0Z01 | 800 mm | 9.13 kW | | | | | | | |
| Quantity | Duty % Per Fan | Poles | | | | | | | |
| 1 | Single Fan | 4 | | | | | | | |
| Air Flow Volume | Outlet Velocity | Motor Speed | | | | | | | |
| 6.75 m³/s | 0.0 m/s | 1465 rpm | | | | | | | |
| Ext Static Pressure | Fan Speed | Power | | | | | | | |
| 35,00 Pa | 1201 rpm | 15,00 kW | | | | | | | |
| Unit Static Pressure | Static Efficiency | FLC | | | | | | | |
| 803,00 Pa | 59,39 % | 28,55 A | | | | | | | |
| Fan Total Pressure | VSD | Volts/Ph/Hz | | | | | | | |
| 887 Pa | Automatic (DOL/Star delta) | 380/3/50 | | | | | | | |
| Frequency | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz | |
| Inlet (1) | 46 | 67 | 71 | 77 | 83 | 85 | 77 | 75 | |
| Outlet (2) | 53 | 71 | 79 | 88 | 88 | 90 | 81 | 77 | |
| (1) SWL INSIDE The Inlet Duct (dB) | | | | (2) SWL INSIDE The Outlet Duct (dB) | | | | | |



| 005 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 780 x 1650 mm | Liftoff door |

| AHU ACOUSTIC DATA EXHAUST SECTION | | | | | | | | | |
|-----------------------------------|-------|-------|-------|------|------|------|------|---------------|---------------------------|
| Frequency | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Overall dB(A) | Description |
| | 71 | 79 | 88 | 88 | 90 | 81 | 77 | 94 | Outlet Sound Power(dB) |
| | 67 | 71 | 77 | 83 | 85 | 77 | 75 | 88 | Inlet Sound Power(dB) |
| | 71 | 79 | 88 | 88 | 90 | 81 | 77 | 94 | Airborne sound power (dB) |

| SPECIFIC FAN POWER | | | |
|---------------------|-------------|--|-------------|
| Supply Fan | | | Extract Fan |
| Filter Conditions | | | Clean |
| Absorbed Power | NaN Kw | | 5.05 Kw |
| Drive Efficiency | NaN% | | 100% |
| Inverter Efficiency | NaN% | | 98% |
| Motor Efficiency | NaN% | | 100% |
| Air Volume | m³/s | | 6.75 m³/s |
| AHU SFP | .76 Kw/m³/s | | |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|---------------------|------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R03 | 4,5 m3/s |
| External Pressure | External Static Pressure appears low. LS to review and confirm | Exhaust Velocity | |
| 350 Pa | | 2,35 m/s | |

| SECTION DIMENSIONS | | | |
|--------------------------------------|--------------------------------------|---|------------------|
| Panel Thickness | Panel Insulation | Aluminium Framework | Frame Coating |
| NaN mm | High Density Infill - 50mm | 50mm Aluminium Corner Tube (B-Type) | Unpainted |
| Panel External Sheet | Panel Internal Sheet | Base Frame | Unit Location |
| Natural Galvanised Steel 20g (1.0mm) | Natural Galvanised Steel 20g (1.0mm) | 100mm High Channel Base - 3mm Sheet Steel | External |
| Access Side | Unit Model | Roof Type | Reinforced Floor |
| Right | | None | None |

| SECTION WEIGHTS AND DIMENSIONS | | | | |
|--------------------------------|---------|---------|---------|--------|
| Section No. | Length | Width | Height | Weight |
| A | 1540 mm | 1630 mm | 1450 mm | 403 kg |
| B | 800 mm | 1630 mm | 1450 mm | 475 kg |
| C | 1560 mm | 1630 mm | 1450 mm | 405 kg |

| OVERALL UNIT DIMENSIONS AND CENTRE OF GRAVITY | | | | |
|---|---------|---------|---------|---------|
| Length | Width | Height | Weight | COG X |
| 3900 mm | 1630 mm | 1450 mm | 1282 kg | 2002 mm |

| 001 INLET SECTION | | | | |
|------------------------|---------------------|---------------|----------|----------------|
| Air Flow | Air Velocity | Pressure Drop | Model | Dimension |
| 4,49 m ³ /s | 2,35 m/s | 0 Pa | 110 | 1530 x 1250 mm |
| Damper | Flexible Connection | Louvre | Actuator | |
| Yes | No | No | No | |

| 002 PANEL AND BAG FILTER | | | | | | | |
|--------------------------|-------|-------|----------------------|------------|------------|------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty Size 1 | Qty Size 2 | Length |
| 2,57 m/s | G4 | Panel | Pleated Disposable | Side | 4x592x592 | 2x292x592 | 100 mm |
| 2,57 m/s | F8 | Bag | Microfine GF Bag 22" | Side | 4x592x592 | 2x292x592 | 550 mm |

| 002 ACCESSORIES | | | | | | | |
|---------------------|--|--|--|--|--|--|--|
| Fitted Touch Screen | | | | | | | |

| 002 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 580 x 1350 mm | Liftoff door |

| 003 HEPA FILTER | | | | | | | |
|-----------------|-------|------|-------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2,57 m/s | H10 | HEPA | HEPA | Front | 4 / 592x592 | 2 / 292x592 | 300 mm |

| 003 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 500 x 1350 mm | Liftoff door |

| 004 CARBON FILTER | | | | | | | |
|-------------------|--------|--------|---------------------------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2,49 m/s | Carbon | Carbon | 30mm Carbon Filter Matrix | Side | 4 / 600x600 | 2 / 300x600 | 600 mm |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|------------------------------------|--|---------------------|-------------------------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R03 | 4,5 m3/s |
| External Pressure 350 Pa | External Static Pressure appears low. LS to review and confirm | | Exhaust Velocity 2,35 m/s |

| 004 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 700 x 1350 mm | Liftoff door |

| 005 PLENUM FAN | | | | | | | | |
|---|--------------------------------|--------------------|---------------|--|--------------|--------------|--------------|--------------|
| Fan Type | Wheel Type | Drive Type | | | | | | |
| Plenum | Backward Curve | Direct Drive | | | | | | |
| Model | Impeller Diam. | Abs Power | | | | | | |
| ER63C-4DN.I7.CR-163662/2Z01 | 630 mm | 7,85 kW | | | | | | |
| Quantity | Duty % Per Fan | Poles | | | | | | |
| 1 | Single Fan | 4 | | | | | | |
| Air Flow Volume | Outlet Velocity | Motor Speed | | | | | | |
| 4,49 m³/s | 2,3 m/s | 1465 rpm | | | | | | |
| Ext Static Pressure | Fan Speed | Power | | | | | | |
| 350,00 Pa | 1692 rpm | 11,00 kW | | | | | | |
| Unit Static Pressure | Static Efficiency | FLC | | | | | | |
| 1118,00 Pa | 63,96 % | 21,35 A | | | | | | |
| Fan Total Pressure | VSD | Volts/Ph/Hz | | | | | | |
| 1200 Pa | Automatic (DOL/ Star delta) | 380/3/50 | | | | | | |
| Frequency | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz |
| Inlet (1) | 42 | 63 | 72 | 73 | 78 | 78 | 76 | 72 |
| Outlet (2) | 51 | 66 | 75 | 83 | 85 | 83 | 80 | 73 |
| (1) SWL INSIDE The Inlet Duct (dB) | | | | (2) SWL INSIDE The Outlet Duct (dB) | | | | |

| 005 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 780 x 1350 mm | Liftoff door |

| AHU ACOUSTIC DATA EXHAUST SECTION | | | | | | | | | |
|-----------------------------------|-------|-------|-------|------|------|------|------|------------------|---------------------------|
| Frequency | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Overall dB(A) | Description |
| | 66 | 75 | 83 | 85 | 83 | 80 | 73 | 89 | Outlet Sound Power(dB) |
| | 63 | 72 | 73 | 78 | 78 | 76 | 72 | 83 | Inlet Sound Power(dB) |
| | 66 | 75 | 83 | 85 | 83 | 80 | 73 | 89 | Airborne sound power (dB) |

| SPECIFIC FAN POWER | | | |
|----------------------------|-------------|--|-----------------------------------|
| Supply Fan | | | Extract Fan |
| Filter Conditions | | | Filter Conditions Clean |
| Absorbed Power | NaN Kw | | Absorbed Power 4,85 Kw |
| Drive Efficiency | NaN% | | Drive Efficiency 100% |
| Inverter Efficiency | NaN% | | Inverter Efficiency 98% |
| Motor Efficiency | NaN% | | Motor Efficiency 100% |
| Air Volume | m³/s | | Air Volume 4,49 m³/s |
| AHU SFP | 1.1 Kw/m³/s | | |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|---------------------|------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R02 | 3.8 m3/s |
| External Pressure | External Static Pressure appears low. LS to review and confirm | | Exhaust Velocity |
| 350 Pa | | | 1.97 m/s |

| UNIT CONSTRUCTION | | | |
|----------------------|----------------------|---|------------------|
| Panel Thickness | Panel Insulation | Aluminium Framework | Frame Coating |
| 0.00 mm | | | Unpainted |
| Panel External Sheet | Panel Internal Sheet | Base Frame | Unit Location |
| | | 100mm High Channel Base - 3mm Sheet Steel | Internal |
| Access Side | Unit Model | Roof Type | Reinforced Floor |
| Right | | None | None |

| SECTION WEIGHTS AND DIMENSIONS | | | | |
|--------------------------------|---------|---------|---------|--------|
| Section No. | Length | Width | Height | Weight |
| A | 1540 mm | 1630 mm | 1450 mm | 424 kg |
| B | 800 mm | 1630 mm | 1450 mm | 475 kg |
| C | 1660 mm | 1630 mm | 1450 mm | 465 kg |

| OVERALL UNIT DIMENSIONS AND CENTRE OF GRAVITY | | | | |
|---|---------|---------|---------|---------|
| Length | Width | Height | Weight | COG X |
| 4000 mm | 1630 mm | 1450 mm | 1364 kg | 2065 mm |

| 001 INLET SECTION | | | | |
|------------------------|---------------------|---------------|----------|----------------|
| Air Flow | Air Velocity | Pressure Drop | Model | Dimension |
| 3.77 m ³ /s | 1.97 m/s | 4 Pa | 125 | 1530 x 1250 mm |
| Damper | Flexible Connection | Louvre | Actuator | |
| Yes | No | No | No | |

| 002 PANEL AND BAG FILTER | | | | | | | |
|--------------------------|-------|-------|----------------------|------------|------------|------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty Size 1 | Qty Size 2 | Length |
| 2.16 m/s | G4 | Panel | Pleated Disposable | Side | 4x592x592 | 2x292x592 | 100 mm |
| 2.16 m/s | F8 | Bag | Microfine GF Bag 22" | Side | 4x592x592 | 2x292x592 | 550 mm |

| 002 ACCESSORIES |
|---------------------|
| Fitted Touch Screen |

| 002 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 580 x 1350 mm | Liftoff door |

| 003 HEPA FILTER | | | | | | | |
|-----------------|-------|------|-------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2.16 m/s | H10 | HEPA | HEPA | Front | 4 / 592x592 | 2 / 292x592 | 300 mm |

| 003 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 500 x 1350 mm | Liftoff door |

| 004 CARBON FILTER | | | | | | | |
|-------------------|--------|--------|---------------------------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2.09 m/s | Carbon | Carbon | 30mm Carbon Filter Matrix | Side | 4 / 600x600 | 2 / 300x600 | 600 mm |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|------------------------------------|---|---------------------|-------------------------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R02 | 3.8 m3/s |
| External Pressure 350 Pa | External Static Pressure appears low, LS to review and confirm | | Exhaust Velocity 1,97 m/s |

| 004 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 700 x 1350 mm | Liftoff door |

| 005 PLENUM FAN | | | | | | | | |
|---|----------------------------|--------------------|---------------|--|--------------|--------------|--------------|--------------|
| Fan Type | Wheel Type | Drive Type | | | | | | |
| Plenum | Backward Curve | Direct Drive | | | | | | |
| Model | Impeller Diam. | Abs Power | | | | | | |
| ER63C-4DN.I7.CR-163662/2Z01 | 630 mm | 6,48 kW | | | | | | |
| Quantity | Duty % Per Fan | Poles | | | | | | |
| 1 | Single Fan | 4 | | | | | | |
| Air Flow Volume | Outlet Velocity | Motor Speed | | | | | | |
| 3,77 m³/s | 0,0 m/s | 1465 rpm | | | | | | |
| Ext Static Pressure | Fan Speed | Power | | | | | | |
| 350,00 Pa | 1586 rpm | 11,00 kW | | | | | | |
| Unit Static Pressure | Static Efficiency | FLC | | | | | | |
| 1099,00 Pa | 63,90 % | 21,35 A | | | | | | |
| Fan Total Pressure | VSD | Volts/Ph/Hz | | | | | | |
| 1157 Pa | Automatic (DOL/Star delta) | 380/3/50 | | | | | | |
| Frequency | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz |
| Inlet (1) | 43 | 63 | 71 | 73 | 77 | 76 | 73 | 68 |
| Outlet (2) | 52 | 67 | 74 | 82 | 85 | 81 | 77 | 69 |
| (1) SWL INSIDE The Inlet Duct (dB) | | | | (2) SWL INSIDE The Outlet Duct (dB) | | | | |

| 005 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 780 x 1350 mm | Liftoff door |

| AHU ACOUSTIC DATA EXHAUST SECTION | | | | | | | | | |
|-----------------------------------|-------|-------|-------|------|------|------|------|---------------|---------------------------|
| Frequency | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Overall dB(A) | Description |
| | 67 | 74 | 82 | 85 | 81 | 77 | 69 | 88 | Outlet Sound Power(dB) |
| | 63 | 71 | 73 | 77 | 76 | 73 | 68 | 82 | Inlet Sound Power(dB) |
| | 67 | 74 | 82 | 85 | 81 | 77 | 69 | 88 | Airborne sound power (dB) |

| SPECIFIC FAN POWER | | | |
|----------------------------|-----------|--|-----------------------------------|
| Supply Fan | | | Extract Fan |
| Filter Conditions | | | Filter Conditions Clean |
| Absorbed Power | NaN Kw | | Absorbed Power 3,69 Kw |
| Drive Efficiency | NaN% | | Drive Efficiency 100% |
| Inverter Efficiency | NaN% | | Inverter Efficiency 98% |
| Motor Efficiency | NaN% | | Motor Efficiency 100% |
| Air Volume | m³/s | | Air Volume 3,77 m³/s |
| AHU SFP | 1 Kw/m³/s | | |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|---------------------|------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R01 | 3.9 m3/s |
| External Pressure | External Static Pressure appears low, LS to review and confirm | | Exhaust Velocity |
| 350 Pa | | | 2.02 m/s |

| UNIT CONSTRUCTION | | | |
|--------------------------------------|--------------------------------------|---|------------------|
| Panel Thickness | Panel Insulation | Aluminium Framework | Frame Coating |
| NaN mm | High Density Infill - 50mm | 50mm Aluminium Corner Tube (B-Type) | Unpainted |
| Panel External Sheet | Panel Internal Sheet | Base Frame | Unit Location |
| Natural Galvanised Steel 20g (1.0mm) | Natural Galvanised Steel 20g (1.0mm) | 100mm High Channel Base - 3mm Sheet Steel | Internal |
| Access Side | Unit Model | Roof Type | Reinforced Floor |
| Right | | None | None |

| SECTION WEIGHTS AND DIMENSIONS | | | | |
|--------------------------------|---------|---------|---------|--------|
| Section No. | Length | Width | Height | Weight |
| A | 1540 mm | 1630 mm | 1450 mm | 424 kg |
| B | 800 mm | 1630 mm | 1450 mm | 475 kg |
| C | 1560 mm | 1630 mm | 1450 mm | 451 kg |

| OVERALL UNIT DIMENSIONS AND CENTRE OF GRAVITY | | | | |
|---|---------|---------|---------|---------|
| Length | Width | Height | Weight | COG X |
| 3900 mm | 1630 mm | 1450 mm | 1350 kg | 1988 mm |

| 001 INLET SECTION | | | | |
|------------------------|---------------------|---------------|----------|----------------|
| Air Flow | Air Velocity | Pressure Drop | Model | Dimension |
| 3.87 m ³ /s | 2.02 m/s | 4 Pa | 125 | 1530 x 1250 mm |
| Damper | Flexible Connection | Louvre | Actuator | |
| Yes | No | No | No | |

| 002 PANEL AND BAG FILTER | | | | | | | |
|--------------------------|-------|-------|----------------------|------------|------------|------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty Size 1 | Qty Size 2 | Length |
| 2.21 m/s | G4 | Panel | Pleated Disposable | Side | 4x592x592 | 2x292x592 | 100 mm |
| 2.21 m/s | F8 | Bag | Microfine GF Bag 22" | Side | 4x592x592 | 2x292x592 | 550 mm |

| 002 ACCESSORIES | | | | | | | |
|---------------------|--|--|--|--|--|--|--|
| Fitted Touch Screen | | | | | | | |

| 002 ACCESS DOOR | | | | | | | |
|-----------------|--|--|--|--------------|--|--|--|
| Dimension | | | | Type | | | |
| 580 x 1350 mm | | | | Liftoff door | | | |

| 003 HEPA FILTER | | | | | | | |
|-----------------|-------|------|-------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2.21 m/s | H10 | HEPA | HEPA | Front | 4 / 592x592 | 2 / 292x592 | 300 mm |

| 003 ACCESS DOOR | | | | | | | |
|-----------------|--|--|--|--------------|--|--|--|
| Dimension | | | | Type | | | |
| 500 x 1350 mm | | | | Liftoff door | | | |

| 004 CARBON FILTER | | | | | | | |
|-------------------|--------|--------|---------------------------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 2.15 m/s | Carbon | Carbon | 30mm Carbon Filter Matrix | Side | 4 / 600x600 | 2 / 300x600 | 600 mm |

TECHNICAL SPECIFICATION SHEET

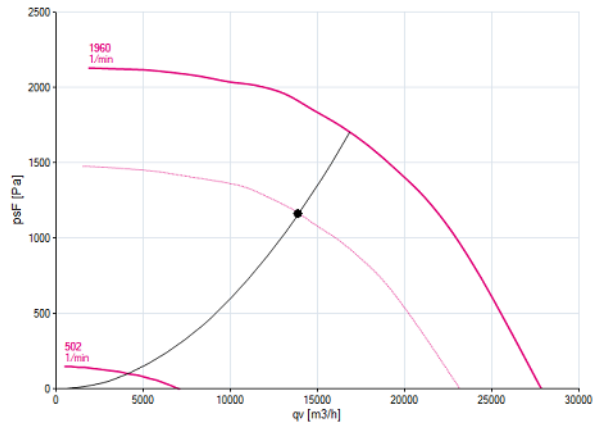
Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------------|---|---------------------|-------------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~2 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R01 | 3.9 m3/s |
| External Pressure | External Static Pressure appears low. LS to review and confirm | | Exhaust Velocity |
| 350 Pa | | | 2,02 m/s |

| 004 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 700 x 1350 mm | Liftoff door |

| 005 PLENUM FAN | | | | | | | | |
|------------------------------------|----------------------------|--------------|--------|-------------------------------------|-------|-------|-------|-------|
| Fan Type | Wheel Type | Drive Type | | | | | | |
| Plenum | Backward Curve | Direct Drive | | | | | | |
| Model | Impeller Diam. | Abs Power | | | | | | |
| ER63C-4DN.I7.CR-163662/2Z01 | 630 mm | 6,67 kW | | | | | | |
| Quantity | Duty % Per Fan | Poles | | | | | | |
| 1 | Single Fan | 4 | | | | | | |
| Air Flow Volume | Outlet Velocity | Motor Speed | | | | | | |
| 3,87 m³/s | 0,0 m/s | 1465 rpm | | | | | | |
| Ext Static Pressure | Fan Speed | Power | | | | | | |
| 350,00 Pa | 1602 rpm | 11,00 kW | | | | | | |
| Unit Static Pressure | Static Efficiency | FLC | | | | | | |
| 1103,00 Pa | 63,97 % | 21,35 A | | | | | | |
| Fan Total Pressure | VSD | Volts/Ph/Hz | | | | | | |
| 1164 Pa | Automatic (DOL/Star delta) | 380/3/50 | | | | | | |
| Frequency | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz |
| Inlet (1) | 43 | 63 | 71 | 73 | 77 | 77 | 73 | 69 |
| Outlet (2) | 52 | 66 | 74 | 83 | 85 | 81 | 77 | 70 |
| (1) SWL INSIDE The Inlet Duct (dB) | | | | (2) SWL INSIDE The Outlet Duct (dB) | | | | |



| 005 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 780 x 1350 mm | Liftoff door |

| AHU ACOUSTIC DATA EXHAUST SECTION | | | | | | | | | |
|-----------------------------------|-------|-------|-------|------|------|------|------|---------------|---------------------------|
| Frequency | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Overall dB(A) | Description |
| | 66 | 74 | 83 | 85 | 81 | 77 | 70 | 89 | Outlet Sound Power(dB) |
| | 63 | 71 | 73 | 77 | 77 | 73 | 69 | 82 | Inlet Sound Power(dB) |
| | 66 | 74 | 83 | 85 | 81 | 77 | 70 | 89 | Airborne sound power (dB) |

| SPECIFIC FAN POWER | | | |
|---------------------|--------------|--|-------------|
| Supply Fan | | | Extract Fan |
| Filter Conditions | | | Clean |
| Absorbed Power | NaN Kw | | 3,85 Kw |
| Drive Efficiency | NaN% | | 100% |
| Inverter Efficiency | NaN% | | 98% |
| Motor Efficiency | NaN% | | 100% |
| Air Volume | m³/s | | 3,87 m³/s |
| AHU SFP | 1,02 Kw/m³/s | | |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|---------------------|------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~1 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R06 | 1.9 m3/s |
| External Pressure | External Static Pressure appears low. LS to review and confirm | | Exhaust Velocity |
| 300 Pa | | | 1,6 m/s |

| UNIT CONSTRUCTION | | | |
|----------------------|----------------------|---|------------------|
| Panel Thickness | Panel Insulation | Aluminium Framework | Frame Coating |
| 0,00 mm | | | Unpainted |
| Panel External Sheet | Panel Internal Sheet | Base Frame | Unit Location |
| | | 100mm High Channel Base - 3mm Sheet Steel | External |
| Access Side | Unit Model | Roof Type | Reinforced Floor |
| Right | | None | None |

| SECTION WEIGHTS AND DIMENSIONS | | | | |
|--------------------------------|---------|---------|---------|--------|
| Section No. | Length | Width | Height | Weight |
| A | 1540 mm | 1330 mm | 1140 mm | 296 kg |
| B | 800 mm | 1330 mm | 1140 mm | 319 kg |
| C | 1560 mm | 1330 mm | 1140 mm | 321 kg |

| OVERALL UNIT DIMENSIONS AND CENTRE OF GRAVITY | | | | |
|---|---------|---------|--------|---------|
| Length | Width | Height | Weight | COG X |
| 3900 mm | 1330 mm | 1140 mm | 936 kg | 1961 mm |

| 001 INLET SECTION | | | | |
|------------------------|---------------------|---------------|----------|---------------|
| Air Flow | Air Velocity | Pressure Drop | Model | Dimension |
| 1,85 m ³ /s | 1,60 m/s | 0 Pa | 110 | 1230 x 940 mm |
| Damper | Flexible Connection | Louvre | Actuator | |
| Yes | No | No | No | |

| 002 PANEL AND BAG FILTER | | | | | | | |
|--------------------------|-------|-------|----------------------|------------|------------|------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty Size 1 | Qty Size 2 | Length |
| 1,77 m/s | G4 | Panel | Pleated Disposable | Side | 2x592x592 | 2x592x292 | 100 mm |
| 1,77 m/s | F8 | Bag | Microfine GF Bag 22" | Side | 2x592x592 | 2x592x292 | 550 mm |

| 002 ACCESSORIES |
|---------------------|
| Fitted Touch Screen |

| 002 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 580 x 1040 mm | Liftoff door |

| 003 HEPA FILTER | | | | | | | |
|-----------------|-------|------|-------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 1,77 m/s | H10 | HEPA | HEPA | Front | 2 / 592x592 | 2 / 592x292 | 300 mm |

| 003 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 500 x 1040 mm | Liftoff door |

| 004 CARBON FILTER | | | | | | | |
|-------------------|--------|--------|---------------------------|------------|-------------|-------------|--------|
| Velocity | Class | Type | Model | Withdrawal | Qty/Size1 | Qty/Size2 | Length |
| 1,71 m/s | Carbon | Carbon | 30mm Carbon Filter Matrix | Side | 2 / 600x600 | 2 / 600x300 | 600 mm |

TECHNICAL SPECIFICATION SHEET

Version: HALTON-AHU 2,20

Version Date: 21 Nov 2012

| PROJECT DETAILS | | | |
|--------------------|--|---------------------|------------------|
| Date | Project No. | Project Reference | Unit No. |
| 25/03/2015 | 22917 | CENTRE POINT | KITCHE~1 |
| Customer | Rev Date | Customer Reference | Air Volume |
| LORNE STEWART PLC. | 25/03/2015 | Kitchen Extract R06 | 1.9 m3/s |
| External Pressure | External Static Pressure appears low, LS to review and confirm | | Exhaust Velocity |
| 300 Pa | | | 1,6 m/s |

| 004 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 700 x 1040 mm | Liftoff door |

| 005 PLENUM FAN | | | | | | | | | |
|------------------------------------|----------------------------|--------------|--------|-------------------------------------|-------|-------|-------|-------|--|
| Fan Type | Wheel Type | Drive Type | | | | | | | |
| Plenum | Backward Curve | Direct Drive | | | | | | | |
| Model | Impeller Diam. | Abs Power | | | | | | | |
| ER56C-4DN.G7.CR-130572/2Z01 | 560 mm | 3,41 kW | | | | | | | |
| Quantity | Duty % Per Fan | Poles | | | | | | | |
| 1 | Single Fan | 4 | | | | | | | |
| Air Flow Volume | Outlet Velocity | Motor Speed | | | | | | | |
| 1,85 m³/s | 0,0 m/s | 1455 rpm | | | | | | | |
| Ext Static Pressure | Fan Speed | Power | | | | | | | |
| 300,00 Pa | 1565 rpm | 5,50 kW | | | | | | | |
| Unit Static Pressure | Static Efficiency | FLC | | | | | | | |
| 1025,00 Pa | 55,68 % | 11,17 A | | | | | | | |
| Fan Total Pressure | VSD | Volts/Ph/Hz | | | | | | | |
| 1047 Pa | Automatic (DOL/Star delta) | 380/3/50 | | | | | | | |
| Frequency | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz | |
| Inlet (1) | 53 | 69 | 70 | 71 | 74 | 72 | 68 | 61 | |
| Outlet (2) | 57 | 72 | 75 | 80 | 83 | 78 | 73 | 65 | |
| (1) SWL INSIDE The Inlet Duct (dB) | | | | (2) SWL INSIDE The Outlet Duct (dB) | | | | | |

| 005 ACCESS DOOR | |
|-----------------|--------------|
| Dimension | Type |
| 780 x 1040 mm | Liftoff door |

| AHU ACOUSTIC DATA EXHAUST SECTION | | | | | | | | | |
|-----------------------------------|-------|-------|-------|------|------|------|------|---------------|---------------------------|
| Frequency | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz | Overall dB(A) | Description |
| | 72 | 75 | 80 | 83 | 78 | 73 | 65 | 86 | Outlet Sound Power(dB) |
| | 69 | 70 | 71 | 74 | 72 | 68 | 61 | 79 | Inlet Sound Power(dB) |
| | 72 | 75 | 80 | 83 | 78 | 73 | 65 | 86 | Airborne sound power (dB) |

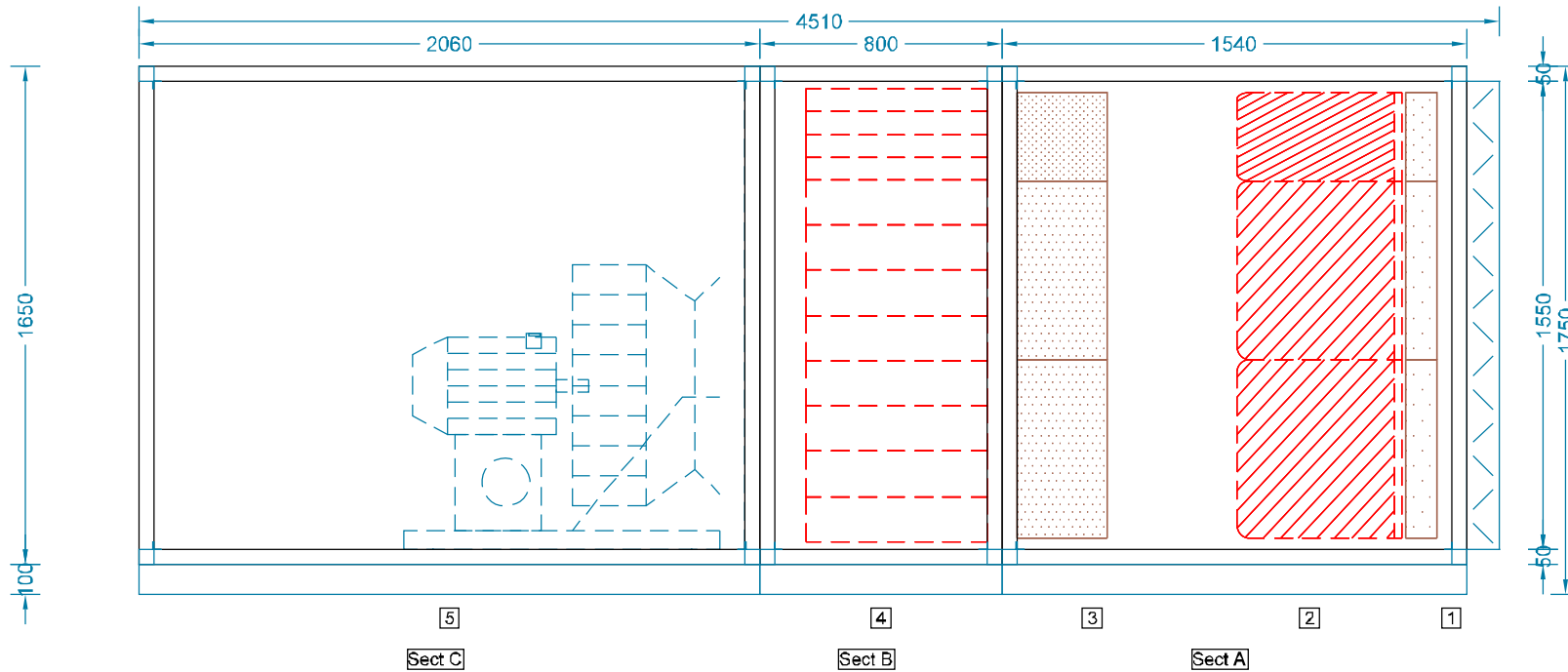
| SPECIFIC FAN POWER | | | |
|---------------------|-------------|--|---------------------|
| Supply Fan | | | Extract Fan |
| Filter Conditions | | | Filter Conditions |
| | | | Clean |
| Absorbed Power | NaN Kw | | Absorbed Power |
| | | | 1,59 Kw |
| Drive Efficiency | NaN% | | Drive Efficiency |
| | | | 100% |
| Inverter Efficiency | NaN% | | Inverter Efficiency |
| | | | 98% |
| Motor Efficiency | NaN% | | Motor Efficiency |
| | | | 100% |
| Air Volume | m³/s | | Air Volume |
| | | | 1,85 m³/s |
| AHU SFP | ,88 Kw/m³/s | | |



4- Manufacturers Drawings

Enclosed





Section A: Weight +/-5% = 529Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight +/-5% = 668Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight +/-5% = 669Kgs

Components

- 5 Plug Fan 1960 mm

ELEVATION

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.6mm 304 STAINLESS STEEL GRADE 304 (EXPOSED TO 35 LITRE PER MINUTE AND 100% HUMIDITY). ALL WELDS TO BE TIG WELDED & FOLDED CONSTRUCTION.
SITE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2009
MAX 361100* HIRE DUCKS ARE HEAVY
DUTY. BE-DIRTYWIPPER GAS SUPPLY AND
THE MECHANICAL DITCH & EXHAUSTION
SYSTEM (X134C) & M-K-HP AIRLINE
PLEASE ASCERTAIN WITH CONTRACTOR
S TO SUPPLY THESE INTERLOGS

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ROCHFESTER, KENT, ME11 3CX
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| REVISIONS | |
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| | |

CLIENT:
LORNE STEWART PLC.

PROJECT:
CENTRE POINT

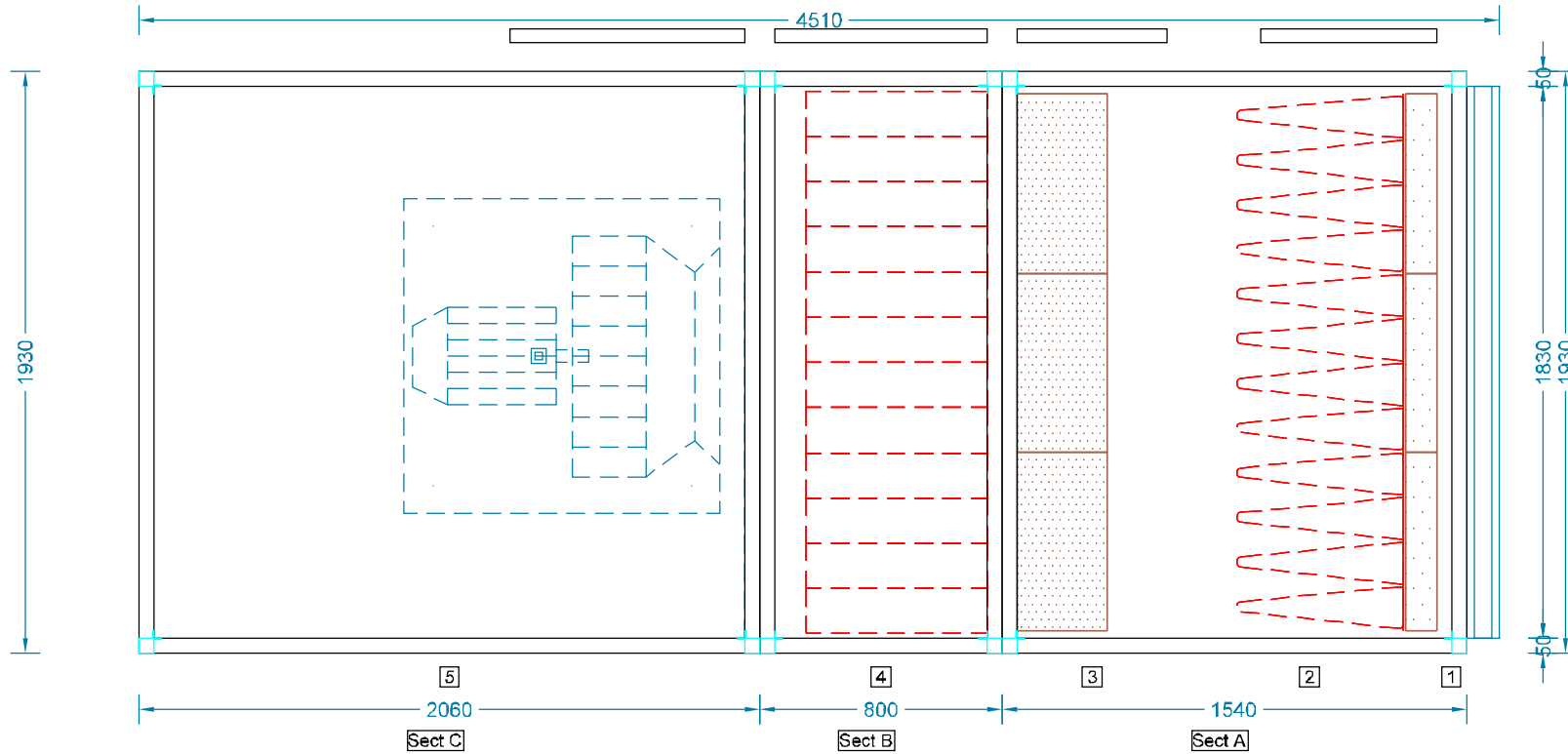
DRAWING CONTENT

/PST07
/5,92

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| | |
|-----------------------------------|------------------|
| TYPE Kitchen Extract 05 | CHECKED: |
| SCALE 1:20 @ A1 | DRAWN: |
| UNIT No: 22917- | REVISION: |



- Section A: Weight +/-5% = 529Kgs**
Components
 1 Inlet Section mm
 2 Panel & Bag Filter 840 mm
 3 Hepa Filter 500 mm
- Section B: Weight +/-5% = 668Kgs**
Components
 4 Carbon Filter 700 mm
- Section C: Weight +/-5% = 669Kgs**
Components
 5 Plug Fan 1960 mm

PLAN DECK

DO NOT SCALE:
 ALL DIMENSIONS IN MILLIMETRES
 HALTON COMPONENTS FABRICATED FROM 1.5mm
 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS)
 AND 304 PARTS 420S (SHIELD FINISH). ALL WHITE
 POWDER COATED CONSTRUCTION.
 SITE JOINT

PLEASE NOTE:
 TO COMPLY WITH BS 5273 2009
 MAX 36118* HIRE DISCS ARE HEAVY
 DUTY BUILT FOR HIGH PRESSURE AND
 HIGH MECHANICAL STRESS. ENTIRE
 SYSTEM IS 1.5mm 304 & 304L
 STAINLESS STEEL.
 PLEASE ASCERTAIN WITH CONTRACTOR
 SITE SPECIFICITIES IN RELATION TO

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| | |

CLIENT:
LORNE STEWART PLC.

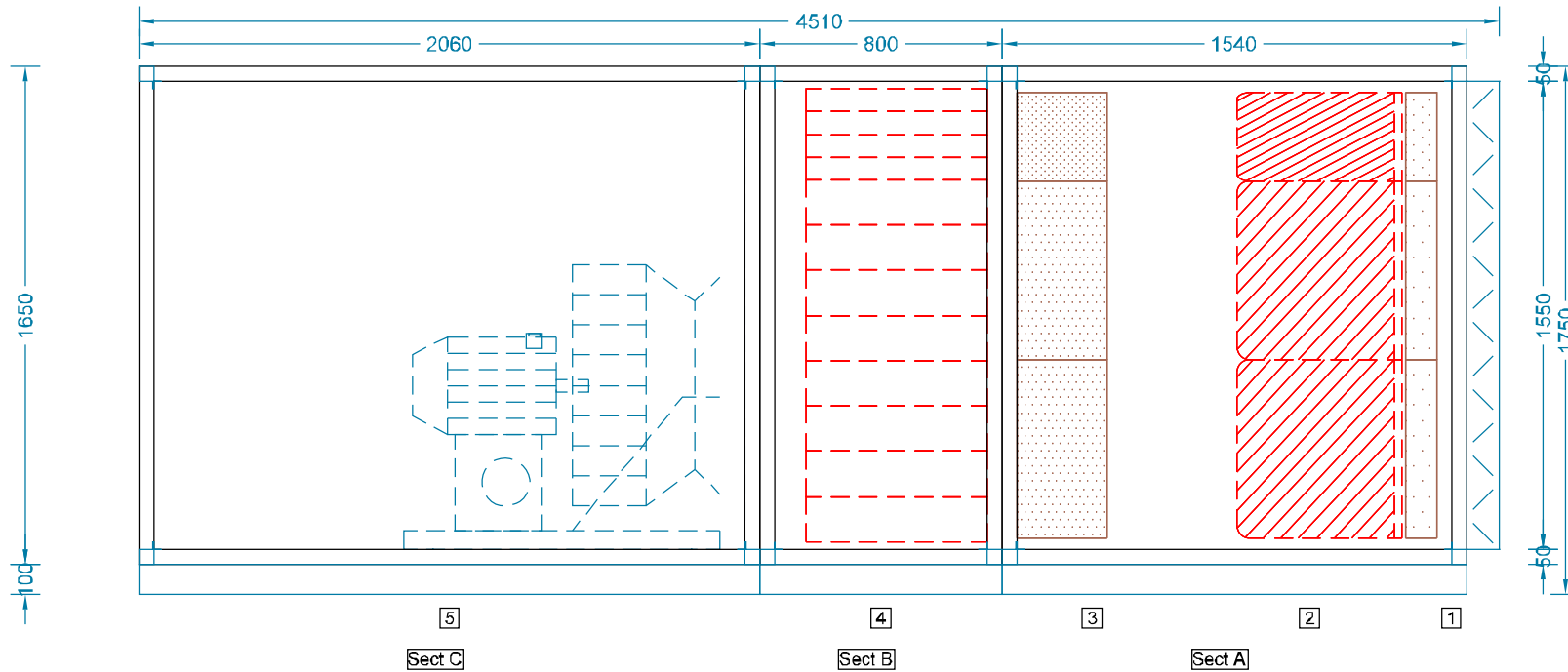
PROJECT:
CENTRE POINT

DRAWING CONTENT
 /PST07
 /5,92

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| TYPE | | CHECKED: | |
|--------------------|------|-----------|--|
| Kitchen Extract 05 | | | |
| SCALE | DATE | DRAWN | |
| 1:20 @ A1 | | | |
| UNIT No: | | REVISION: | |
| 22917- | | | |



- Section A: Weight +/-5% = 529Kgs**
Components
 1 Inlet Section mm
 2 Panel & Bag Filter 840 mm
 3 Hepa Filter 500 mm
- Section B: Weight +/-5% = 668Kgs**
Components
 4 Carbon Filter 700 mm
- Section C: Weight +/-5% = 738Kgs**
Components
 5 Plug Fan 1960 mm

ELEVATION

DO NOT SCALE:
 ALL DIMENSIONS IN MILLIMETRES
 HALTON COMPONENTS FABRICATED FROM 1.6mm 304
 STAINLESS STEEL GRADE 304 (EXPOSED TO 35 LITRE PARTS)
 AND 304 PARTS 420 (SILICONE FINISH). ALL WHITE
 COLOURED FOLDED CONSTRUCTION
 GATE JOINT

PLEASE NOTE:
 TO COMPLY WITH BS 5273 2006
 MAX 361100* HIRE DUCKS ARE HEAVY
 3000* HIRE DUCKS ARE SUPPLIED AS
 THE MECHANICAL DUCKS VENTILATION
 SYSTEM (X1346) & M-K-HP AIR
 PLEASE ASCERTAIN WITH CONTRACTOR
 S TO SUPPLY THESE INTERLOCKS

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| REVISIONS | |
|-----------|--|
| | |

CLIENT:
LORNE STEWART PLC.

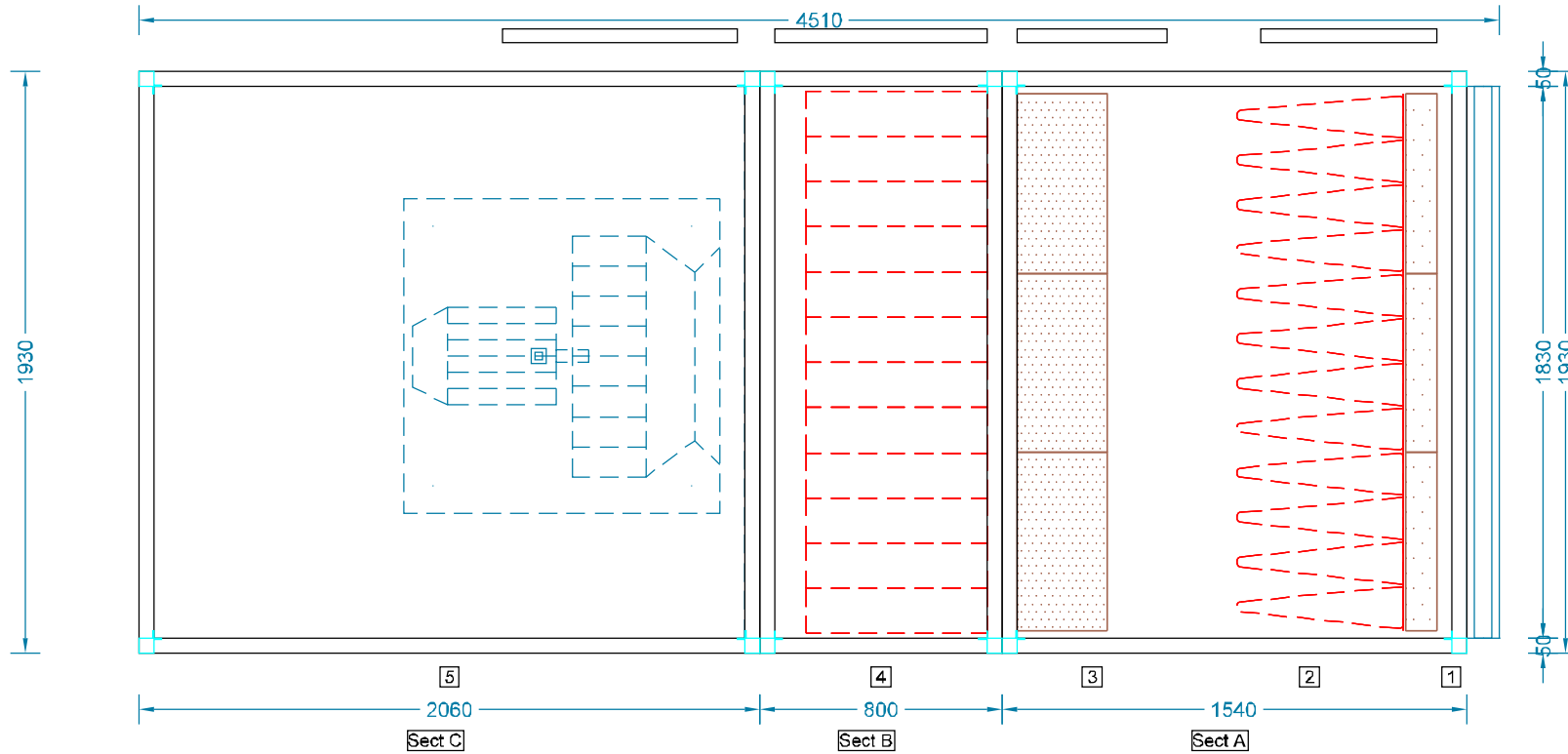
PROJECT:
CENTRE POINT

DRAWING CONTENT
 /PST07
 /6.75

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| | |
|------------------------------------|------------------|
| TYPE Kitchen Extract R04 | CHECKED: |
| SCALE 1:20 @ A1 | DRAWN: |
| UNIT No: 22917- | REVISION: |



- Section A: Weight +/-5% = 529Kgs**
Components
 1 Inlet Section mm
 2 Panel & Bag Filter 840 mm
 3 Hepa Filter 500 mm
- Section B: Weight +/-5% = 668Kgs**
Components
 4 Carbon Filter 700 mm
- Section C: Weight +/-5% = 738Kgs**
Components
 5 Plug Fan 1960 mm

PLAN DECK

DO NOT SCALE:
 ALL DIMENSIONS IN MILLIMETRES
 HALTON COMPONENTS FABRICATED FROM 1.6mm 304 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS) AND 1.5mm 304 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS) TO BE WELDED & FOLDED CONSTRUCTION.
 SITE JOINT

PLEASE NOTE:
 TO COMPLY WITH BS 5273 2009
 MAX 36118mm HIGH OVER HEAD
 400mm HIGH OVER GAS SUPPLY AND
 THE MECHANICAL EXHAUST/VENTILATION
 SYSTEM (EXTRACT & MAKE-UP AIR)
 PLEASE ASCERTAIN WITH CONTRACTOR
 SITE SUPPLIERS INTERLOGS

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CLIENT:
LORNE STEWART PLC.

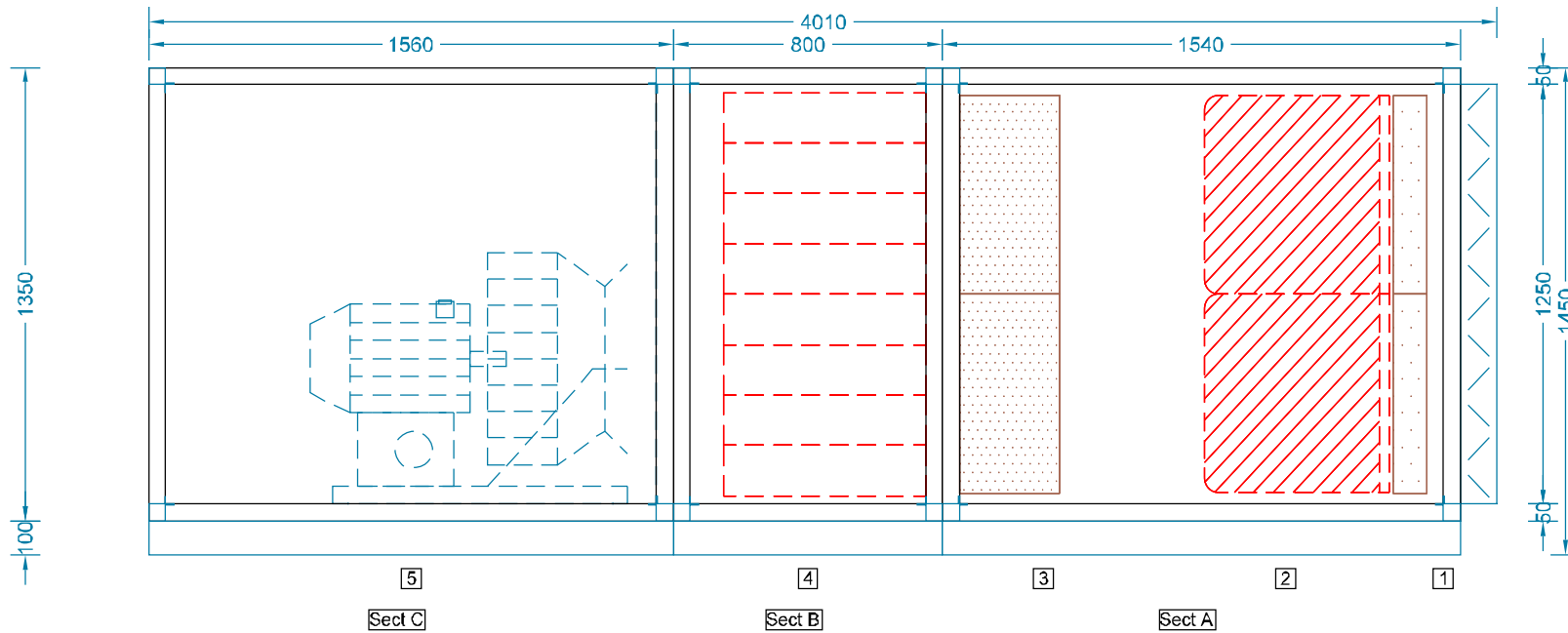
PROJECT:
CENTRE POINT

DRAWING CONTENT
 /PST07
 /6.75

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| Kitchen Extract R04 | | | |
| SCALE | DATE | DRAWN | |
| 1:20 @ A1 | | | |
| UNIT No: | | REVISION: | |
| 22917- | | | |



Section A: Weight $\pm 5\%$ = 403Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight $\pm 5\%$ = 475Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight $\pm 5\%$ = 405Kgs

Components

- 5 Plug Fan 1460 mm

ELEVATION

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.5mm
STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS)
AND ALL PARTS 4mm (EXCEPT FINISH). ALL WELDS
TO BE TIG WELDED & FOLDED CONSTRUCTION.
GATE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2005
MAX 36110mm HIGH OVER HEAD
400mm HIGH WITH GAS SUPPLY AND
THE MECHANICAL EXHAUST VENTILATION
SYSTEM (X184CL) & M-K-100 AIRLINE
PLEASE ASCERTAIN WITH CONTRACTOR
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LORNE STEWART PLC.

PROJECT:
CENTRE POINT

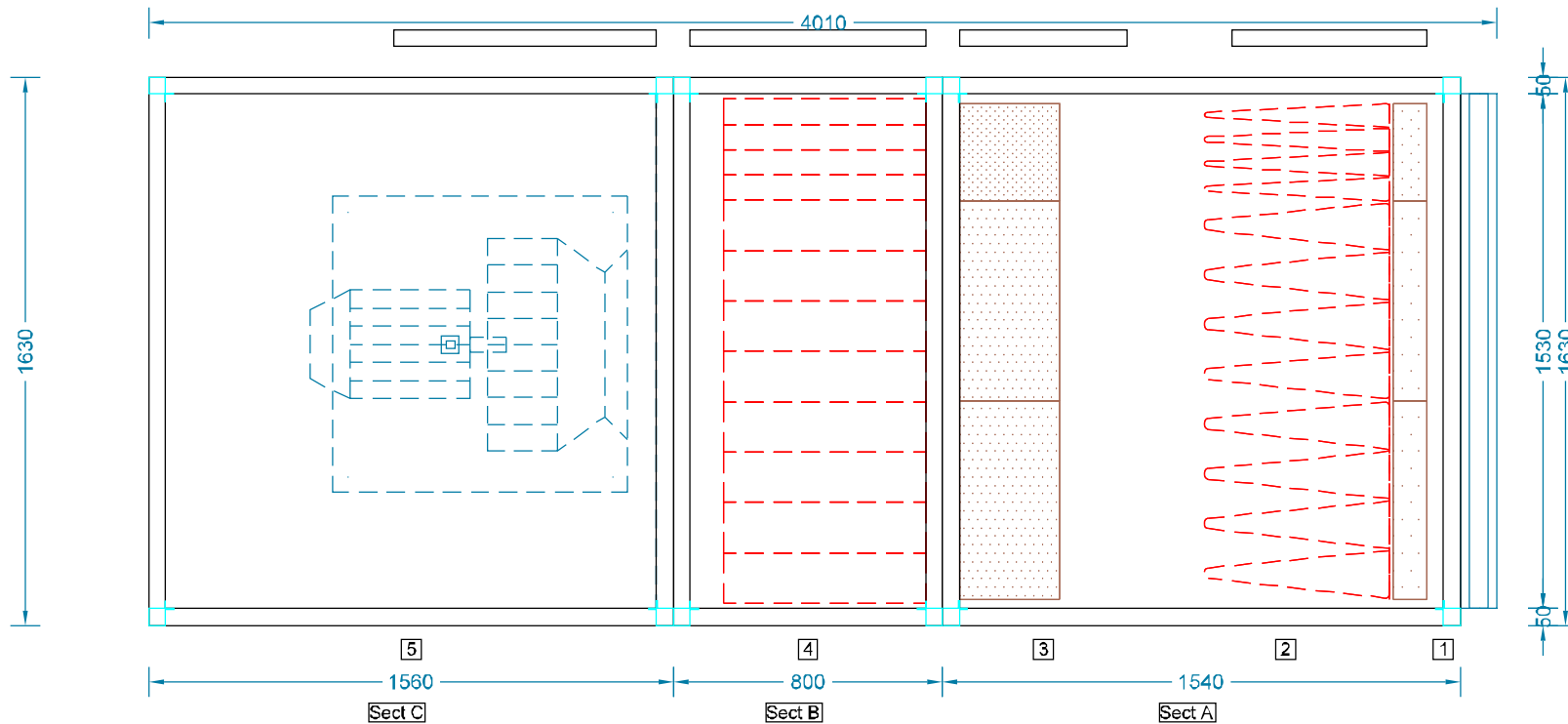
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PST05
4.49

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| Kitchen Extract R03 | | | |
| SCALE | 1:20 @ A1 | DATE | DRAWN |
| UNIT No: | 22917- | REVISION: | |



Section A: Weight +/-5% = 403Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight +/-5% = 475Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight +/-5% = 405Kgs

Components

- 5 Plug Fan 1460 mm

PLAN DECK

DO NOT SCALE:
 ALL DIMENSIONS IN MILLIMETRES
 HALTON COMPONENTS FABRICATED FROM 1.5mm
 316 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS)
 AND ALL PARTS 420S (SHIMMER FINISH). ALL WHITE
 POWDER COATED CONSTRUCTION.
 GATE JOINT

PLEASE NOTE:
 TO COMPLY WITH BS 5273 2009
 MAX 361100* HIRE DISCS ARE HEAVY
 DUTY DISCS WITH 100% GAS SUPPLY AND
 THE MECHANICAL CHECKS + ENTILATION
 SYSTEMS (X134C) & M-K-100 AIRLINE
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PROJECT:
CENTRE POINT

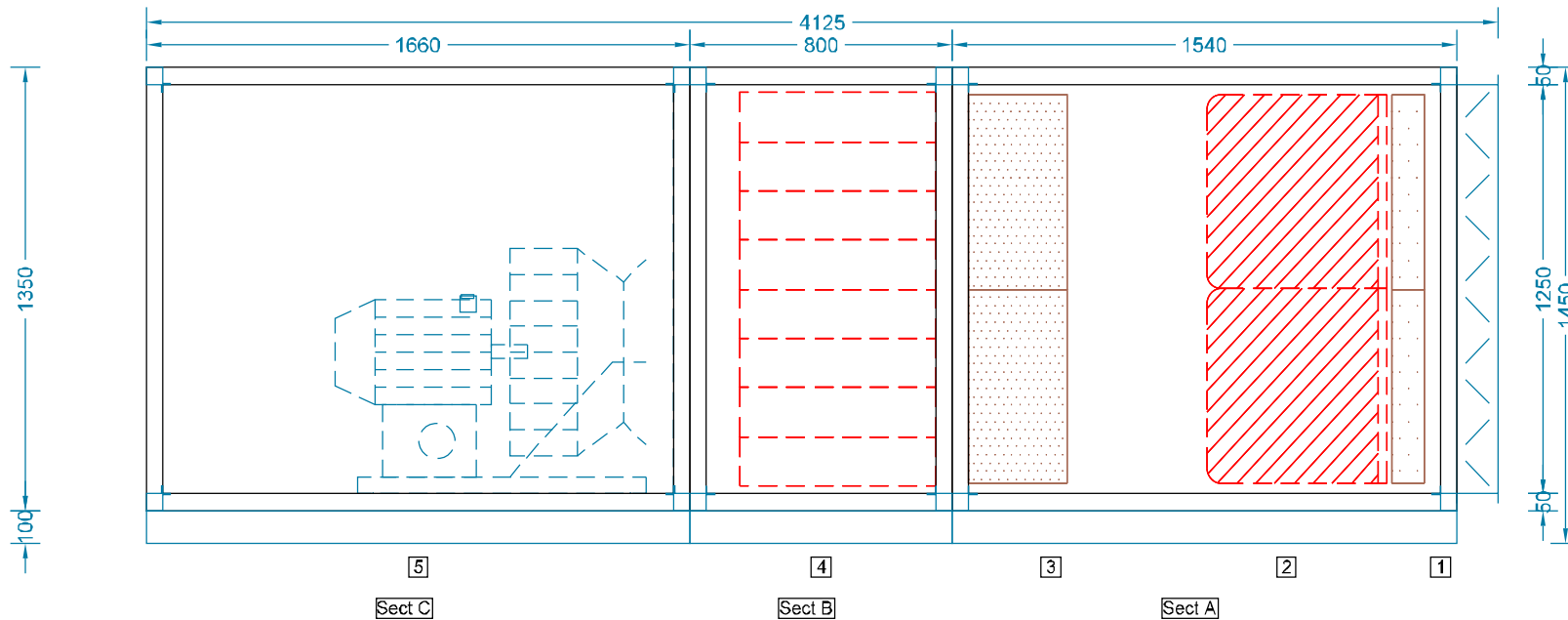
DRAWING CONTENT

PST05
 4.49

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| TYPE Kitchen Extract R03 | CHECKED: |
| SCALE 1:20 @ A1 | DRAWN: |
| UNIT No: 22917- | REVISION: |



Section A: Weight $\pm 5\%$ = 424Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight $\pm 5\%$ = 475Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight $\pm 5\%$ = 465Kgs

Components

- 5 Plug Fan 1560 mm

ELEVATION

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.5mm
STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS)
AND 304 PARTS 420 (SILICON FINISH). ALL WELDS
TO BE TIG WELDED & FOLDED CONSTRUCTION.
GATE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2006
MAX 361100* HIRE DISCS ARE HEAVY
DUTY DISCS WITH 100% GAS SUPPLY AND
THE MECHANICAL CHECKS & VENTILATION
SYSTEMS (X134C) & M-K-HP AIRL
PLEASE ASCERTAIN WITH CONTRACTOR
S TO SUPPLY THESE INTERLOCKS

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PROJECT:
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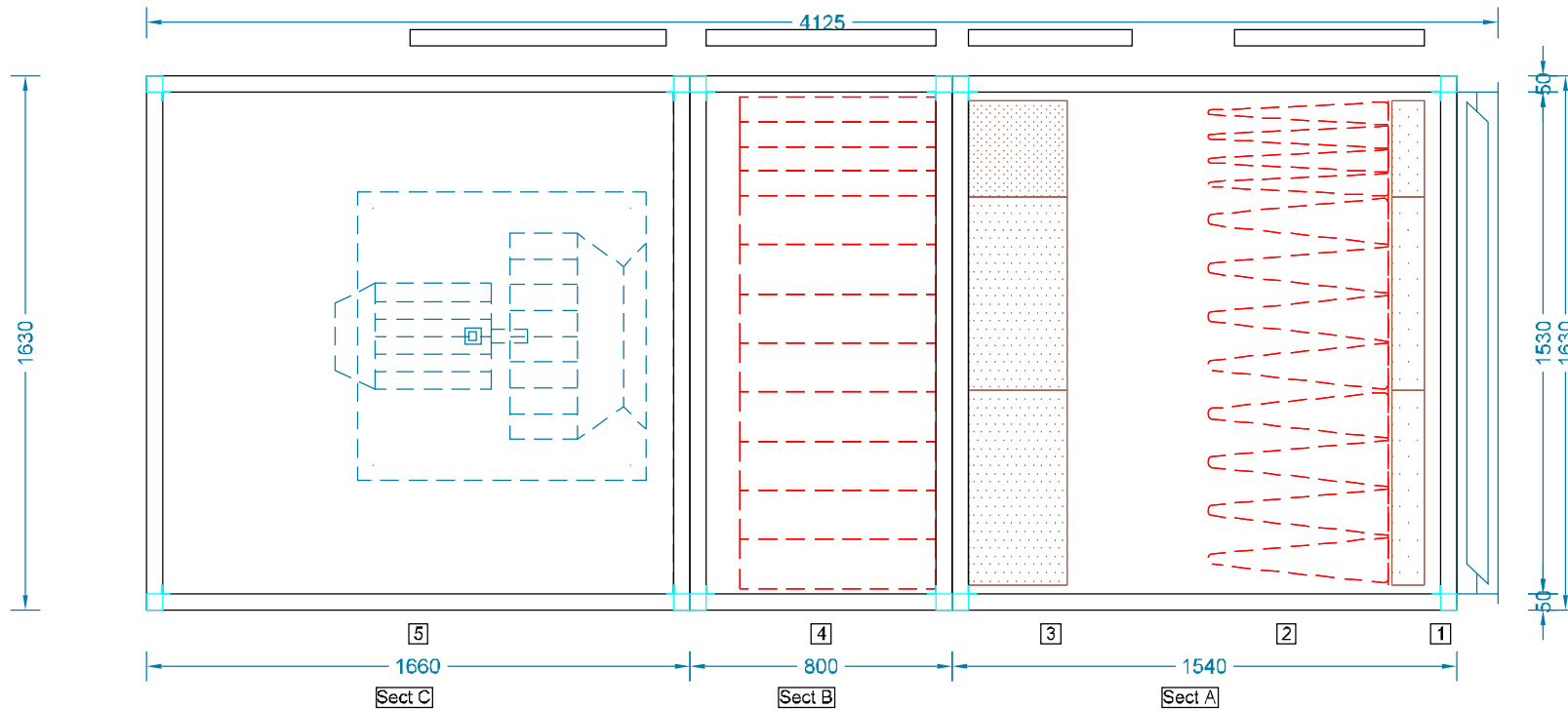
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| TYPE | | CHECKED: | |
|---------------------|------|-----------|--|
| Kitchen Extract R02 | | | |
| SCALE | DATE | DRAWN | |
| 1:20 @ A1 | | | |
| UNIT No: | | REVISION: | |
| 22917- | | | |



Section A: Weight +/-5% = 424Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight +/-5% = 475Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight +/-5% = 465Kgs

Components

- 5 Plug Fan 1560 mm

PLAN DECK

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.6mm 304 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS) AND 1.5mm 304 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS) TO BE WELDED & FOLDED CONSTRUCTION.
SITE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2009
MAX 361100* HIRE DUCKS ARE HEAVY
DUTY BUILT FOR HIGH PRESSURE SUPPLY AIR
THE MECHANICAL CATCHES & EXHAUSTION
SYSTEMS (X134C) & M-K-HP AIRLINE
PLEASE ASCERTAIN WITH CONTRACTOR
SUCH SUPPLIERS: INTERLOGIC

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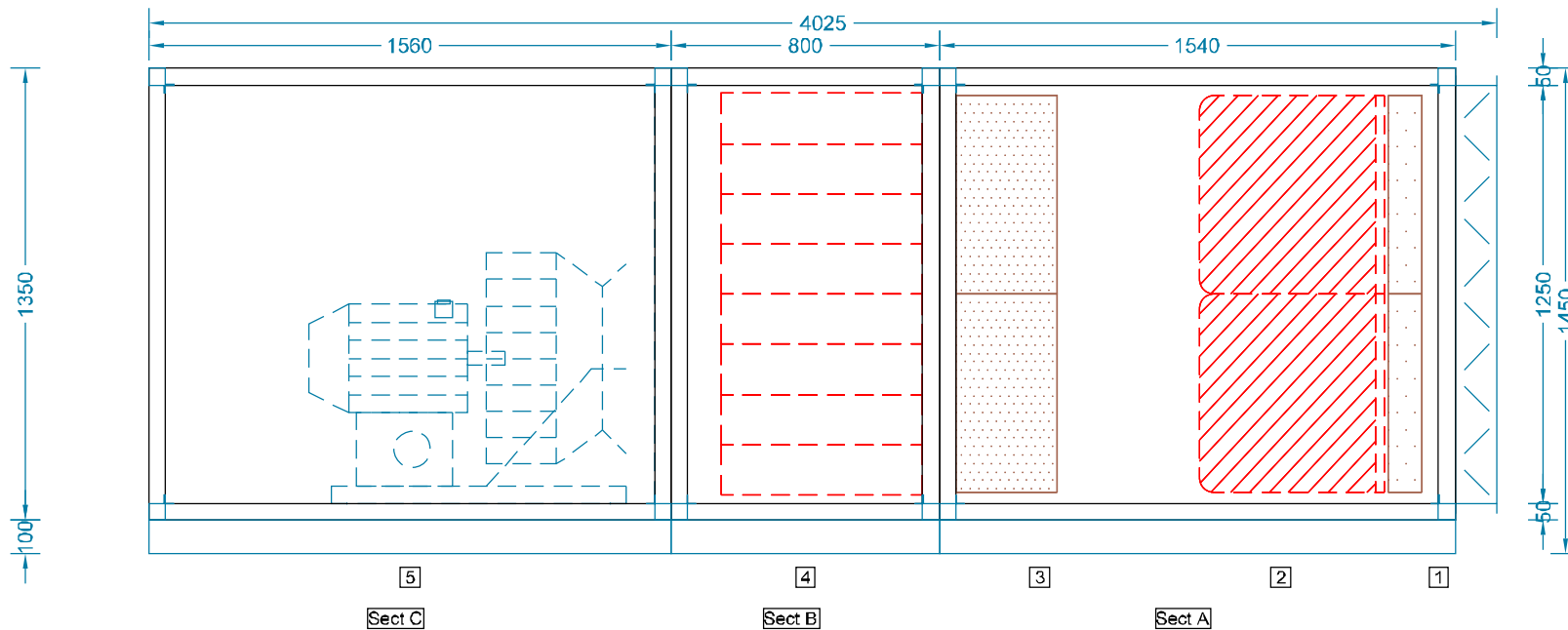
PROJECT:
CENTRE POINT

DRAWING CONTENT
/PST05
/3.77

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| TYPE Kitchen Extract R02 | CHECKED: |
| SCALE 1:20 @ A1 | DRAWN: |
| UNIT No: 22917- | REVISION: |



Section A: Weight $\pm 5\%$ = 424Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight $\pm 5\%$ = 475Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight $\pm 5\%$ = 451Kgs

Components

- 5 Plug Fan 1460 mm

ELEVATION

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.6mm
STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS)
AND ALL PARTS 420 (SILICON FINISH). ALL WELDS
TO BE TIG WELDED & FOLDED CONSTRUCTION.
GATE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2006
MAX 361100* HIRE DISCS ARE HEAVY
DUTY (B-D) RATED 1000V GAS SUPPLY AND
THE MECHANICAL CHECKS & VENTILATION
SYSTEM (X1) 840 & M-K-HP AIRL
PLEASE ASCERTAIN WITH CONTRACTOR
S TO SUPPLY THESE INTERLOCKS

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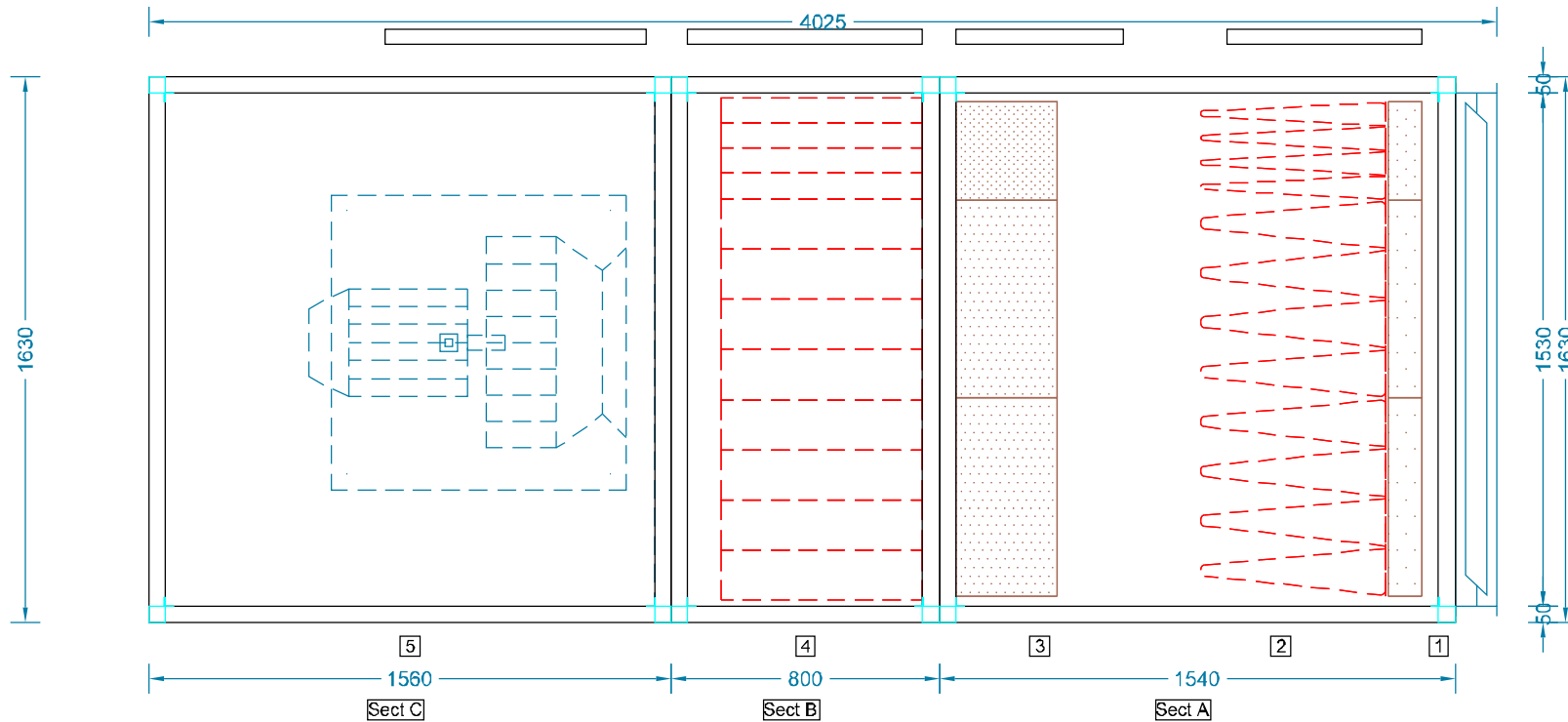
PROJECT:
CENTRE POINT

DRAWING CONTENT
PST05
3.87

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| TYPE | | CHECKED: | |
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| Kitchen Extract R01 | | | |
| SCALE | 1:20 @ A1 | DATE | DRAWN |
| UNIT No: | 22917- | REVISION: | |



Section A: Weight $\pm 5\%$ = 424Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight $\pm 5\%$ = 475Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight $\pm 5\%$ = 451Kgs

Components

- 5 Plug Fan 1460 mm

PLAN DECK

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.6mm 304 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS) AND 1.5mm ALUMINIUM PARTS (EXCEPT FINISH). ALL WELDS TO BE TIG WELDED & FOLDED CONSTRUCTION.
GATE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2009
MAX 361100* HIRE DISCS ARE HEAVY
DUTY DISCS FOR HIGH PRESSURE SUPPLY AIR
THE MECHANICAL CATCH & EXHAUSTION
SYSTEM IS 1.5mm ALUMINIUM & 1.5mm
ALUMINIUM
PLEASE ASCERTAIN WITH CONTRACTOR
SIZES & SUPPLY THICKNESS INTERLOCKS

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PROJECT:
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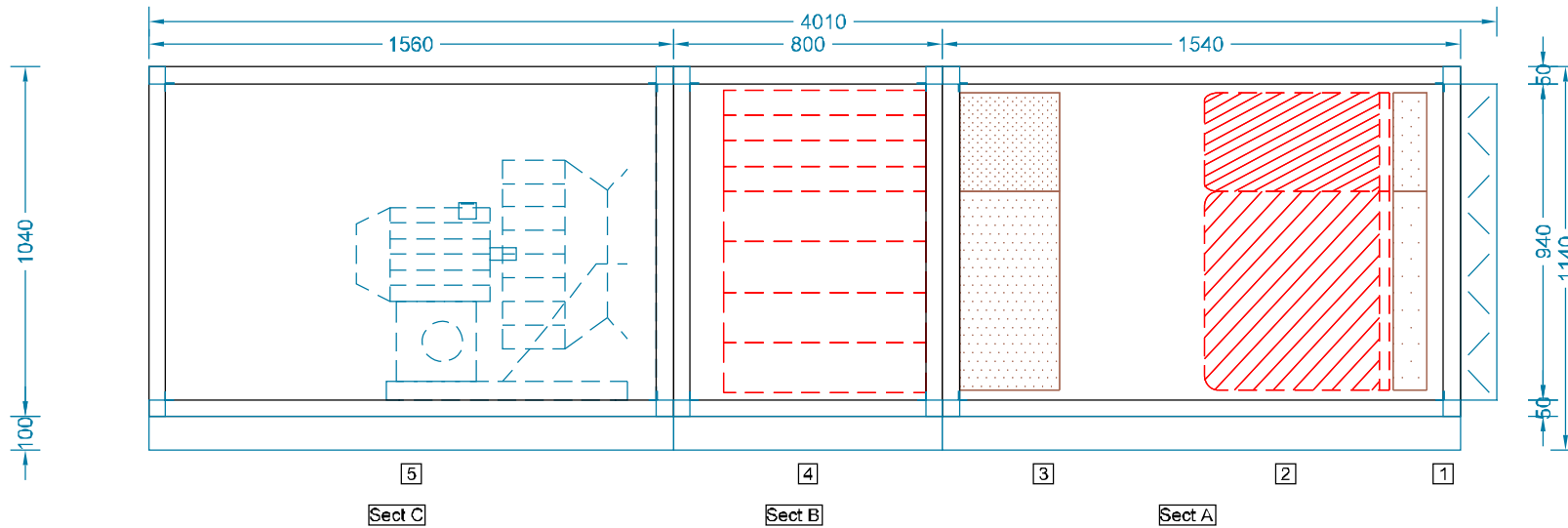
DRAWING CONTENT

PST05
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| TYPE Kitchen Extract R01 | CHECKED: |
| SCALE 1:20 @ A1 | DRAWN: |
| UNIT No: 22917- | REVISION: |



Section A: Weight $\pm 5\%$ = 296Kgs
Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight $\pm 5\%$ = 319Kgs
Components

- 4 Carbon Filter 700 mm

Section C: Weight $\pm 5\%$ = 321Kgs
Components

- 5 Plug Fan 1460 mm

ELEVATION

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.6mm 304 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS) AND ALL PARTS 420S (SHIMMER FINISH). ALL WELDS TO BE TIG WELDED & FOLDED CONSTRUCTION.
SITE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2006
MAX 36.118kg HIRE DUCKS ARE HEAVY
30kg HIRE DUCKS WITH GAS SUPPLY ARE
THE MECHANICAL CATCH & EXHAUSTION
SYSTEM (X134C) & M-K-IMP AIRL
PLEASE ASCERTAIN WITH CONTRACTOR
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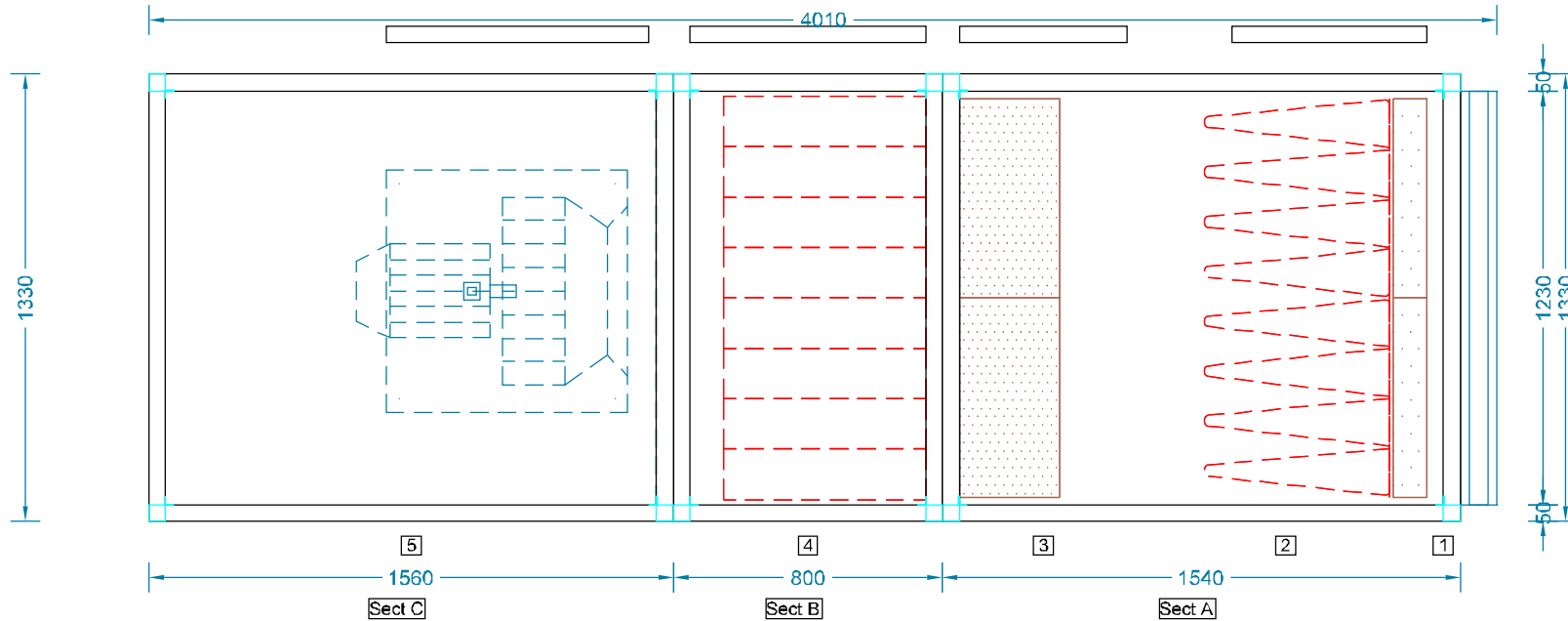
PROJECT:
CENTRE POINT

DRAWING CONTENT
/PST03
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| TYPE Kitchen Extract R06 | | CHECKED: |
| SCALE 1:20 @ A1 | DATE | DRAWN |
| UNIT No: 22917- | | REVISION: |



Section A: Weight $\pm 5\%$ = 296Kgs

Components

- 1 Inlet Section mm
- 2 Panel & Bag Filter 840 mm
- 3 Hepa Filter 500 mm

Section B: Weight $\pm 5\%$ = 319Kgs

Components

- 4 Carbon Filter 700 mm

Section C: Weight $\pm 5\%$ = 321Kgs

Components

- 5 Plug Fan 1460 mm

PLAN DECK

DO NOT SCALE:
ALL DIMENSIONS IN MILLIMETRES
HALTON COMPONENTS FABRICATED FROM 1.5mm
304 STAINLESS STEEL GRADE 304 (EXCEPT TO 35 LITRE PARTS)
AND 1.5mm ALUMINIUM PARTS (SILVER FINISH). ALL WELDS
TO BE TIG WELDED & FOLDED CONSTRUCTION.
SEE JOINT

PLEASE NOTE:
TO COMPLY WITH BS 5273 2006
MAX 361108* HIRE DISCS ARE HEAVY
DUTY. BE-DRAWN UP BY GAS SUPPLIER AND
THE MECHANICAL CHECKS & VENTILATION
SYSTEM (X134C) & M-K-IMP AIRL.
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PROJECT:
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DRAWING CONTENT

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| TYPE Kitchen Extract R06 | CHECKED: |
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| UNIT No 22917- | DRAWN |
| | REVISION: |

5 - Interfaces and Dependencies Schedules

| Interface Required | Detail | Provided By | Final Connection By |
|--------------------|-----------------------------------|---|---|
| Power Supply | Local isolator required | Lorne Stewart | Lorne Stewart |
| BMS connection | High level BMS interface required | BMS sub-contractor on behalf of Lorne Stewart | BMS sub-contractor on behalf of Lorne Stewart |
| | | | |
| | | | |

6 - Builders Work Requirements

Concrete plinths required

7 - O&M Information

To be issued as part of our contractual obligation during the term of the contract.

8 – List of Recommended spares

To be provided with O&M information



9 - Other

