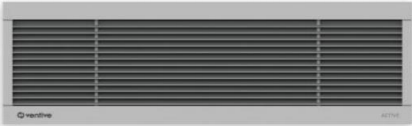


	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4	Engineer: MO/RY Ref: 9_585 03/03/2023 Rev: T01
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING A	

Notes:
The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings.

1. Electrical Data for all Equipment to be confirmed with final selection by the contractor
2. All equipment to be installed inline with manufacturers recommendations
3. Mechanical contractor to carry out heat loss, pump head, system volume, system expansion, fan static head calculations based on installation drawings for approval by the client and architect (as XCO2 have no ongoing construction stage scope) before ordering of equipment.
4. All equipment to be submitted by contractor to the client and architect for approval (as XCO2 have no ongoing construction stage scope).
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7. Contractor responsible for all acoustic treatment of plant and anti-vibration mounts.
8. Metering of systems will be as per the client requirements
9. Finishes subject to architect comments

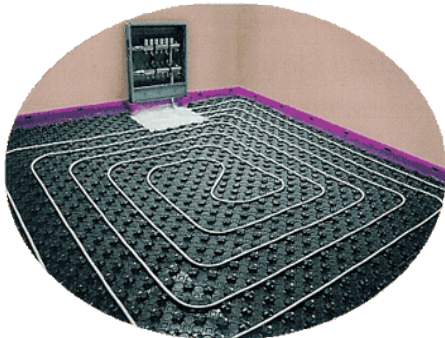
EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
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Passive Ventilation Unit with Heat Recovery and associated actuated skylights	VENTIVE WINDHIVE (SKYLIGHTS AS PER ARCHITECTURAL SPECIFICATION)	1 no. Windhive, 3 no. of actuated skylights	Multi-function Space	Per Windhive unit: Full Heat Recovery: 120 l/s Bypass Mode: 200 l/s Purge Mode: 350 l/s	Roof mounted passive ventilation system with heat recovery. - c/w CO2 controls and associated indoor and outdoor temperature sensors - Required roof opening: 830 x 830 mm - Not suitable to be installed on the roof ridge - refer to layouts for locations - 3 no. of actuated skylights as per architectural specification. Minimum size to allow for future retrofit of windhives (replacement). to be compatible with and integrated into the Windhive control system.	
Purge Wall Ventilators	VENTIVE PURGE WALL VENTILATORS	4no.	Multi-function Space	0.36 m2 Free Area per louvre	Controllable low level ventilators - Final dimensions and finishes to be in line with the Architect's requirements - Actuator Type: 24V Modulating (0-10V signal)	
Cooker hood	BY OTHERS	1 no.	Kitchen	To meet Approved Document F	Externally ducted Finish and type to be as per architect requirements	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4	Engineer: MO/R Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING A	03/03/2023 Rev: T01

Notes:
The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings.

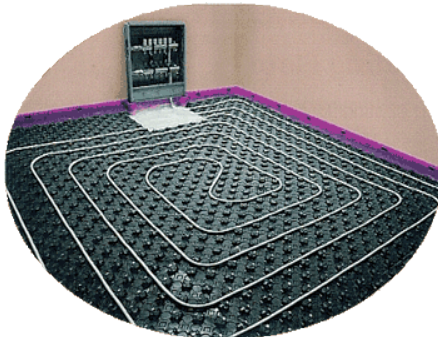
1. Electrical Data for all Equipment to be confirmed with final selection by the contractor
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8. Metering of systems will be as per the client requirements
9. Finishes subject to architect comments

EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Underfloor Heating c/w pumped manifold	UPONOR UNDERFLOOR HEATING	1 no. of manifolds	Storage	Refer to layouts Output for each zone to be based on the final construction stage heat loss calculations by the contractor.	Underfloor Heating - A thermostat with timer programme - C/W circulation pump and expansion vessel - Size dependent on the number of zones. - Dimensions to be confirmed by manufacturer.	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4					Engineer: MO/R Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING A					03/03/2023 Rev: T01
Notes: The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings. 1. Electrical Data for all Equipment to be confirmed with final selection by the contractor 2. All equipment to be installed inline with manufacturers recommendations 3. Mechanical contractor to carry out heat loss, pump head, system volume, system expansion, fan static head calculations based on installation drawings for approval by the client and architect (as XCO2 have no ongoing construction stage scope) before ordering of equipment. 4. All equipment to be submitted by contractor to the client and architect for approval (as XCO2 have no ongoing construction stage scope). 5. Any equipment with lower SAP performance or efficiency to equipment listed in the specifications will need to be highlighted to XCO2. Energy team to ensure energy performance of the building is not affected 6. Contractor to allow for plinths to all plant items as required, and as confirmed by equipment/plant manufacturers. Final design of plinths to be confirmed by the structural engineer based on final procured plant items and weights. 7. Contractor responsible for all acoustic treatment of plant and anti-vibration mounts. 8. Metering of systems will be as per the client requirements 9. Finishes subject to architect comments						
EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Air Source Heat Pump	VAILLANT AROTHERM	1 no.	Refer to layouts	1 no. of 12kW Unit	Externally mounted low temperature air source heat pump outdoor unit - Maximum total pipework length: 20m from the indoor unit - Acoustic enclosure provision to be provided. Acoustic enclosure requirements and design to be confirmed by an acoustic specialist - Hard standing area (sized to allow for acoustic enclosure provision or retrofit) to be provided - Clearances to be provided in line with manufacturer requirements - Electrical data: 230V/ 1 Ph/ 50Hz - Recommended Fuse size: 25A - C/W anti-vibration mounts, controllers, isolation valves, strainers, discharge vessels, connection kits and expansion vessel kits in line with manufacturer requirements - C/W frost-protected drip trays - Floor mounting kit - Provide freeze-stat trace heating on condensate pipework and drainage connections as necessary - Dimensions (H x W x D): 1565 x 1100 x 450 mm per unit	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4					Engineer: MO/RY Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING A					03/03/2023 Rev: T01
Notes: The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings. 1. Electrical Data for all Equipment to be confirmed with final selection by the contractor 2. All equipment to be installed inline with manufacturers recommendations 3. Mechanical contractor to carry out heat loss, pump head, system volume, system expansion, fan static head calculations based on installation drawings for approval by the client and architect (as XCO2 have no ongoing construction stage scope) before ordering of equipment. 4. All equipment to be submitted by contractor to the client and architect for approval (as XCO2 have no ongoing construction stage scope). 5. Any equipment with lower SAP performance or efficiency to equipment listed in the specifications will need to be highlighted to XCO2. Energy team to ensure energy performance of the building is not affected 6. Contractor to allow for plinths to all plant items as required, and as confirmed by equipment/plant manufacturers. Final design of plinths to be confirmed by the structural engineer based on final procured plant items and weights. 7. Contractor responsible for all acoustic treatment of plant and anti-vibration mounts. 8. Metering of systems will be as per the client requirements 9. Finishes subject to architect comments						
EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Indoor Heat Exchanger module	VAILLANT HEAT EXCHANGER MODULE	1 no.	Refer to layouts	N/A	Wall-mounted heat exchanger module to separate the heat pump circuit (incl. glycol) from the heating system circuit. - c/w integral fill and flush points and air bleed vents/valves - c/w modulating circuit pump (ErP A rated 35%) - Dimensions (H x W x D): 500 x 250 x 360 mm	
Buffer Vessel	VAILLANT BUFFER VESSEL 45 LITRES	1 no.	Refer to layouts	45 Litres	Wall/ floor mounted insulated steel buffer vessel - Dimensions (H x OD): 888 x 365Ø mm	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4					Engineer: MO/RY Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING A					03/03/2023 Rev: T01
Notes: The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings.						
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EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Electric Water Heaters	HEATRAE SADIA MULTIPOINT ECO	2 no.	1 no. in Storage and Kitchen	Storage: 30 Litres Kitchen: 100 Litres	Multipoint Eco 30 - 100 Unvented water heater - c/w insulation, Temperature/ Pressure Relief Valve, non return valve and expansion vessel - Discharge to be in line with Building Regulation G3 Requirements and Guidance - Wall mounted and coordinated with joinery - refer to layouts. - Electrical data: 3kW Rating, 230V / 1Ph/ 50Hz - Dimensions (H x W x D): 30 Litres Vertical - 722 x 371 x 357 mm. 100 Litres Vertical - 1234 x 454 x 456 mm	
Water meters	IN LINE WITH THAMES WATER REQUIREMENTS	1 no.	Refer to layouts	To match incoming mains water pipework. Size TBC by Thames Water	Bulk water meter recessed in the ground - Valve arrangement and access requirements to be in line with Thames Water requirements.	
Water conditioner	PUREHYDRO	1 no.	Internally on the incoming mains supply - prior to any take offs for the different buildings.	To match incoming mains water pipework.	WRAS approved in line water electrolytic water conditioner to be installed on the incoming mains.	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4					Engineer: MO/RY Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING B					03/03/2023 Rev: T01
Notes: The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings. 1. Electrical Data for all Equipment to be confirmed with final selection by the contractor 2. All equipment to be installed inline with manufacturers recommendations 3. Mechanical contractor to carry out heat loss, pump head, system volume, system expansion, fan static head calculations based on installation drawings for approval by the client and architect (as XCO2 have no ongoing construction stage scope) before ordering of equipment. 4. All equipment to be submitted by contractor to the client and architect for approval (as XCO2 have no ongoing construction stage scope). 5. Any equipment with lower SAP performance or efficiency to equipment listed in the specifications will need to be highlighted to XCO2. Energy team to ensure energy performance of the building is not affected 6. Contractor to allow for plinths to all plant items as required, and as confirmed by equipment/plant manufacturers. Final design of plinths to be confirmed by the structural engineer based on final procured plant items and weights. 7. Contractor responsible for all acoustic treatment of plant and anti-vibration mounts. 8. Metering of systems will be as per the client requirements 9. Finishes subject to architect comments						
EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Passive Ventilation Unit with Heat Recovery	VENTIVE WINDHIVE	3 no.	1 no. per Classroom, Office, Office/Meeting Room	Per unit: Full Heat Recovery: 120 l/s Bypass Mode: 200 l/s Purge Mode: 350 l/s	Roof mounted passive ventilation system with heat recovery. - c/w CO2 controls and associated indoor and outdoor temperature sensors - Required roof opening: 830 x 830 mm - Not suitable to be installed on the roof ridge - refer to layouts for locations	
Underfloor Heating c/w pumped manifold	UPONOR UNDERFLOOR HEATING	2 no. of manifolds	Refer to layouts	Refer to layouts Output for each zone to be based on the final construction stage heat loss calculations by the contractor.	Underfloor Heating - A thermostat with timer programme for each zone to be provided - C/W circulation pump and expansion vessel - Size dependent on the number of zones. - Dimensions to be confirmed by manufacturer.	

XCO2	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4					Engineer: MO/R Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING B					03/03/2023 Rev: T01
Notes: The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings. 1. Electrical Data for all Equipment to be confirmed with final selection by the contractor 2. All equipment to be installed inline with manufacturers recommendations 3. Mechanical contractor to carry out heat loss, pump head, system volume, system expansion, fan static head calculations based on installation drawings for approval by the client and architect (as XCO2 have no ongoing construction stage scope) before ordering of equipment. 4. All equipment to be submitted by contractor to the client and architect for approval (as XCO2 have no ongoing construction stage scope). 5. Any equipment with lower SAP performance or efficiency to equipment listed in the specifications will need to be highlighted to XCO2. Energy team to ensure energy performance of the building is not affected 6. Contractor to allow for plinths to all plant items as required, and as confirmed by equipment/plant manufacturers. Final design of plinths to be confirmed by the structural engineer based on final procured plant items and weights. 7. Contractor responsible for all acoustic treatment of plant and anti-vibration mounts. 8. Metering of systems will be as per the client requirements 9. Finishes subject to architect comments						
EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Electric Radiant Heating Panels	HERSCHEL IR SUMMIT	1 no. Total	Open Air Kitchen	2.6kW per panel	IR Summit Electric Radiant Panels. - Wall mounted or ceiling hung - refer to layouts - Electrical data: 220 - 240V / 1Ph/ 50Hz - Current: 11.3 Amps - Dimensions (H x W x D): 160 x 1400 x 450 mm - IP65 - Finish to be in line with the Architect's requirements. - Warm up time <10 minutes - c/w manual switch with run on timer to minimise the risk of the unit being left on for any sustained amount of time. The design intention is that the panel heater will be used only very occasionally. To be C/W time lag switch to avoid being left on for any sustained period of time.	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4	Engineer: MO/RY Ref: 9_585 03/03/2023 Rev: T01
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING B	

Notes:
The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings.

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EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Air Source Heat Pump	VAILLANT AROTHERM	1 no.	Refer to layouts	1 no. of 12kW Unit	Externally mounted low temperature air source heat pump outdoor unit - Maximum total pipework length: 20m from the indoor unit - Acoustic enclosure provision to be provided. Acoustic enclosure requirements and design to be confirmed by an acoustic specialist - Hard standing area (sized to allow for acoustic enclosure provision or retrofit) to be provided - Clearances to be provided in line with manufacturer requirements - Electrical data: 230V/ 1 Ph/ 50Hz - Recommended Fuse size: 25A - C/W anti-vibration mounts, controllers, isolation valves, strainers, discharge vessels, connection kits and expansion vessel kits in line with manufacturer requirements - C/W frost-protected drip trays - Floor mounting kit - Provide freeze-stat trace heating on condensate pipework and drainage connections as necessary - Dimensions (H x W x D): 1565 x 1100 x 450 mm	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4					Engineer: MO/R Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING B					03/03/2023 Rev: T01
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EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Indoor Heat Exchanger module	VAILLANT HEAT EXCHANGER MODULE	1 no.	Refer to layouts	N/A	Wall-mounted heat exchanger module to separate the heat pump circuit (incl. glycol) from the heating system circuit. - c/w integral fill and flush points and air bleed vents/valves - c/w modulating circuit pump (ErP A rated 35%) - Dimensions (H x W x D): 500 x 250 x 360 mm	
Buffer Vessel	VAILLANT BUFFER VESSEL 45 LITRES	1 no.	Refer to layouts	45 Litres	Wall/ floor mounted insulated steel buffer vessel - Dimensions (H x OD): 888 x 365Ø mm	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4					Engineer: MO/R Ref: 9_585
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING B					03/03/2023 Rev: T01
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EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Electric Water Heaters	HEATRAE SADIA	1 no.	Office (adjacent to Open Air Kitchen)	30 Litres	Multipoint Eco 30 Unvented water heater - c/w insulation, Temperature/ Pressure Relief Valve, non return valve and expansion vessel - Discharge to be in line with Building Regulation G3 Requirements and Guidance - Wall mounted and coordinated with joinery - refer to layouts. - Electrical data: 3kW Rating, 230V / 1Ph/ 50Hz - Dimensions (H x W x D): Vertical - 722 x 371 x 357 mm.	

	WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4	Engineer: MO/R Ref: 9_585 03/03/2023 Rev: T01
	MECHANICAL EQUIPMENT SCHEDULE: BUILDING C	

Notes:
The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings.

- Electrical Data for all Equipment to be confirmed with final selection by the contractor
- All equipment to be installed inline with manufacturers recommendations
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- Contractor responsible for all acoustic treatment of plant and anti-vibration mounts.
- Metering of systems will be as per the client requirements
- Finishes subject to architect comments

EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Louvres	TBC by Architect	Refer to layouts	Refer to layouts	Refer to layouts	- Requirement to be confirmed by Building Control. - Final selection and finish to be in line with the Architect's requirements.	
Electric Water Heater	HEATRAE SADIA HOTFLO 15	1 no.	Workshop	10 Litres	Hotflo 10 Unvented water heater c/w insulation, Temperature/ Pressure Relief Valve. - C/w expansion vessel (unless expansion can take place within the cold water supply in line with manufacturer recommendations) - Discharge to be in line with Building Regulation G3 Requirements and Guidance - Wall or floor mounted - to be coordinated with joinery, refer to layouts - Electrical data: 2.2kW Rating, 230V / 1Ph/ 50Hz - Dimensions (H x W x D): 610 x 267 x 252 mm	
Local Extract Fan	NUAIRE NA-E-150	1 no.	Workshop & Distribution Warehouse	To meet Approved Document F, unless natural ventilation is otherwise agreed with Building Control	- Requirement to be confirmed by Building Control. -Axial Wall Mounted Fan for extract adjacent to sinks.	



WL-XCO-ZZ-XX-SH-M-0002-D2 MARKET GARDEN CITY - STAGE 4

MECHANICAL EQUIPMENT SCHEDULE: BUILDING C

Engineer: MO/R
Ref: 9_585
03/03/2023
Rev: T01

Notes:
The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings.

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7. Contractor responsible for all acoustic treatment of plant and anti-vibration mounts.
8. Metering of systems will be as per the client requirements
9. Finishes subject to architect comments

EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
Electric Radiant Heating Panels	HERSCHEL IR SUMMIT	Future provision only	Future provision only	2.6kW per panel	IR Summit Electric Radiant Panels. - Wall mounted or ceiling hung - refer to layouts - Electrical data: 220 - 240V / 1Ph/ 50Hz - Current: 11.3 Amps - Dimensions (H x W x D): 160 x 1400 x 450 mm - IP65 - Finish to be in line with the Architect's requirements. - Warm up time <10 minutes	

Notes:
The following equipment schedule describes the main plant located in the building. The contractor shall also include for all additional plant described on the specifications and shown on the associated engineering drawings.

1. Electrical Data for all Equipment to be confirmed with final selection by the contractor
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EQUIPMENT	MANUFACTURER (OR EQUAL AND APPROVED) AND MODEL	QUANTITY	LOCATION	DUTY	DESCRIPTION	REF. PICTURE (Indicative only)
LANDLORDS CAT 5 WASHDOWN SET	KGN PILLINGER	1 no.	Distribution Warehouse	Flow: 0.25 l/s Head: 2.2 bar	CAT 5 Washdown Booster Set (approximately 18 litres storage) housed in a GRP cabinet – CAT 5 AB air gap – GRP cabinet – Floor/ wall mounted – Single peripheral pump – Electrical data: 240V / 1Ph/ 50Hz – Dimensions: 610mm (L) x 390mm (W) x 1070mm (H)	