

In addition to the hazards/risks normally associated with the types of work detailed on this drawing and noted in the designer risk assessments and health and safety plan, note the following:

- It is assumed that all works on this drawing will be carried out by a competent contractor working, where appropriate, to an approved method statement.
- Where applicable, all significant residual risks will be highlighted below.

Notes:

BUILDING REGULATIONS NOTES:

PART G - HYGIENE

- SANITARYWARE FITTINGS INSTALLED AND CALCULATED TO BUILDING REGULATIONS 17 K WITHIN EACH DWELLING, SHALL NOT EXCEED 125 LITRES CONSUMPTION PER PERSON PER DAY, OF WHOLESOME WATER BY PERSONS OCCUPYING THE DWELLING.
- THERMOSTATIC MIXING VALVES SHALL BE INSTALLED ON ALL BATHS TO LIMIT THE HOT WATER TEMPERATURE TO A MAXIMUM OF 48°C.
- WHOLESOME POTABLE WATER SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
 - WHERE DRINKING WATER IS USED
 - WHERE ANY WASHBASIN OR BIDET IS PROVIDED NEAR TO A WC
 - WHERE ANY WASHBASIN/BIDET/SHOWER OR FIXED BATH IS INSTALLED IN A BATHROOM
 - WHERE ANY SINK IS PROVIDED WHERE FOOD IS PREPARED
- HOT WATER SHALL BE PROVIDED TO SANITARYWARE INCLUDING WASH BASINS, BIDETS, FIXED BATHS, SHOWERS AND SINKS.

G1 COLD WATER SUPPLY

- THE WATER SUPPLY IS FROM A GUARANTEED WHOLESOME WATER SUPPLY, I.E. MAINS WATER SUPPLY.

G3 HOT WATER SUPPLY AND SYSTEMS

- THE HOT WATER SYSTEM TO MEET THE REQUIREMENTS OF BS 806 OR BS EN 12897: 2006.
- HOT WATER STORAGE VESSELS TO CONFORM WITH BS 853-1:1996, BS 1566-1: 2002, BS 3198:1981.

VENTED HOT WATER STORAGE SYSTEMS

- THE SYSTEM INCORPORATES A VENT PIPE.
- THE MAXIMUM TEMPERATURE OF THE WATER IN THE STORAGE SYSTEM WILL NOT EXCEED 100°C BY INCORPORATING A DEVICE.

UNVENTED HOT WATER STORAGE SYSTEMS- ALL SYSTEMS.

- CONTRACTOR TO PROVIDE DETAILS OF THE PROPOSED INSTALLER OF THE UNVENTED HOT WATER SYSTEM. THE INSTALLER SHOULD BE REGISTERED TO INSTALL SUCH SYSTEMS, BUILDING CONTROL WILL REQUIRE A COPY OF THE INSTALLERS REGISTRATION CARD PRIOR TO THE ISSUING OF THE FINAL CERTIFICATE.

ELECTRIC WATER HEATING

- FIXED IMMERSION HEATER TO COMPLY WITH BS EN 60335-2-73: 2003.
- ELECTRIC INSTANTANEOUS WATER HEATER SHOULD COMPLY WITH BS EN 60335-2-35: 2002.
- ELECTRIC STORAGE WATER HEATER SHOULD COMPLY WITH BS EN 60335-2-21: 2003.

PREVENTION OF EXCESSIVE TEMPERATURES AND SCALDING

- THE HOT WATER SUPPLIED TO THE DOMESTIC HOT WATER DISTRIBUTION SYSTEM DOES NOT EXCEED 60°C.

COMMISSIONING OF FIXED BUILDING SERVICES

- CONTRACTOR TO PROVIDE THE RELEVANT COMMISSIONING CERTIFICATE FOR THE HOT WATER SYSTEM IN ACCORDANCE WITH THE DOMESTIC BUILDING SERVICES COMPLIANCE GUIDE: 2013 .

PART L - CONSERVATION OF FUEL AND POWER

- PLEASE SEE SEPARATE SUBMISSION FOR SAP CALCULATIONS

T	DEC. 22	TENDER ISSUE	RAM
Rev.	Date:	Amendments:	Drawn:

TENDER



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Project:
**102 - 104 NORTHUMBERLAND PARK
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Title:
**FLATS 1 - 2. GROUND FLOOR
DOMESTIC WATER SERVICES
& LTHW HEATING LAYOUT**

Drawn:	Engineer:	Approved:	Date:
SJW	IMW	IMW	DEC. 22

Scale: 1:50 @ A1
Reference File: -

MECHANICAL SERVICES

Drawing Number: Revision:

9522 - M - 3100

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NOTES:

- FINAL SETTING OUT OF ALL EQUIPMENT TO BE AGREED WITH CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.

DOMESTIC TOWN MAINS COLD WATER INSTALLATION

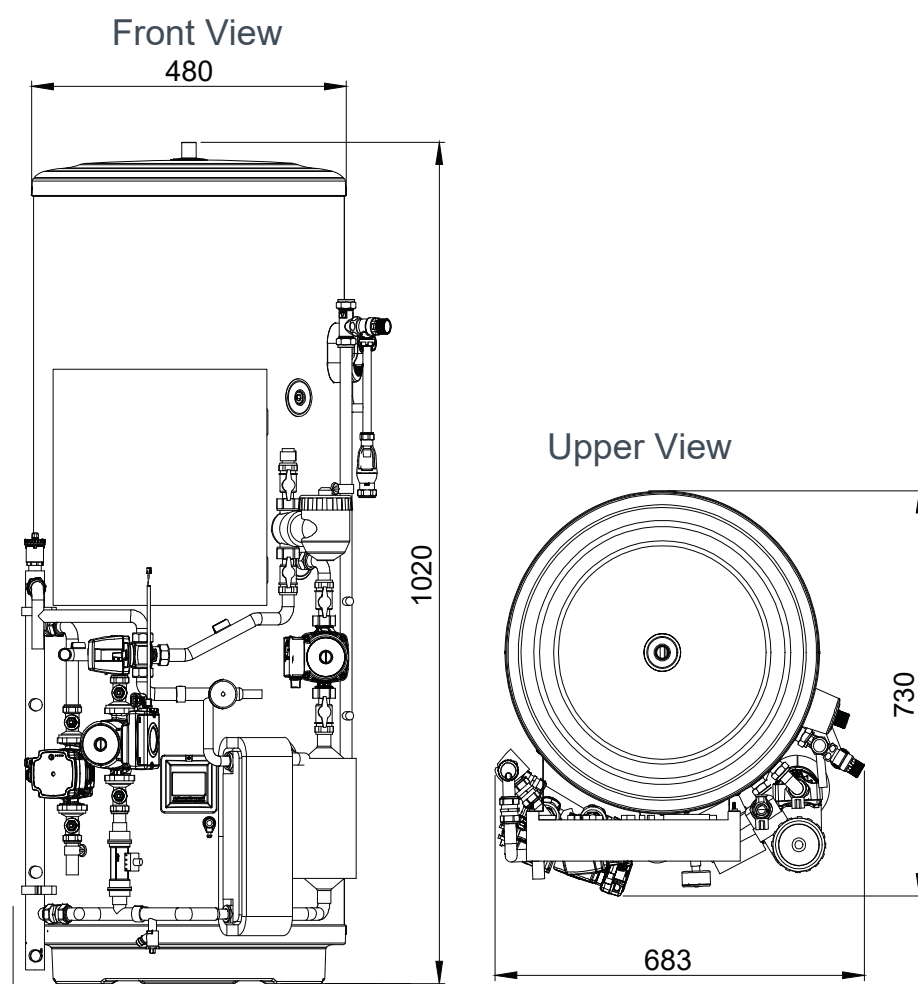
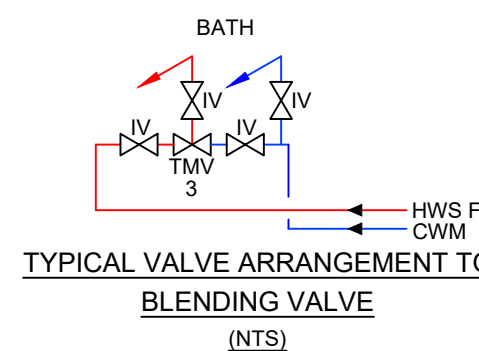
- NEW COLD WATER MAIN SUPPLY TO SERVE ALL TERMINAL OUTLETS. PIPEWORK TO BE DISTRIBUTED WITHIN ACCESSIBLE VOIDS, BOXINGS & ENCLOSURES.

- THE CONTRACTORS ATTENTION IS DRAWN TO THE WATER REGULATIONS. THE CONTRACTOR SHALL ARRANGE WITH THE LOCAL WATER AUTHORITY TO SUBMIT HIS WORKING DRAWINGS AND MATERIALS SCHEDULE FOR COMMENT AND APPROVAL PRIOR TO COMMENCEMENT ON SITE, AND IF REQUESTED BY LOCAL WATER AUTHORITY, MEET WITH THEIR REPRESENTATIVES ON SITE.

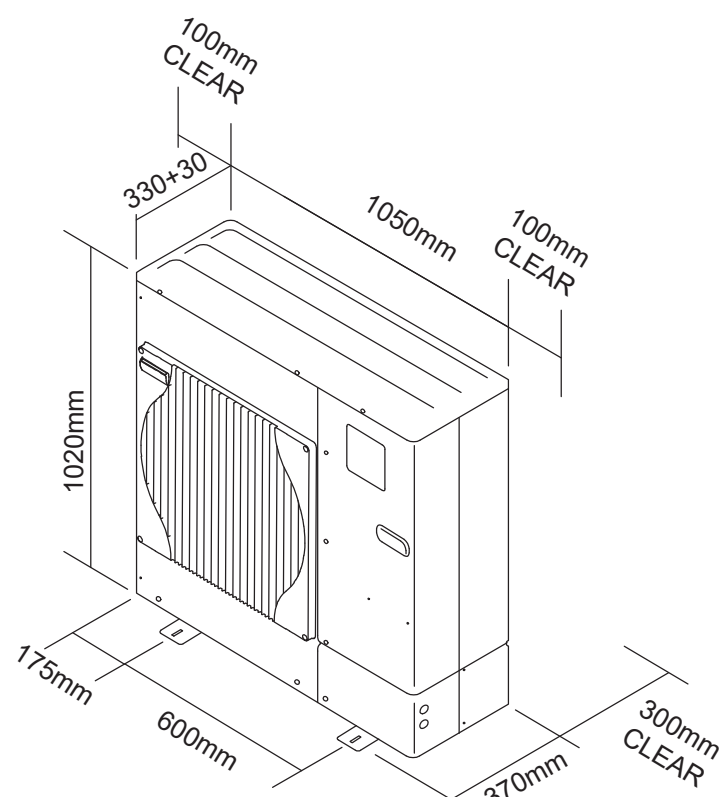
- LOCAL WATER AUTHORITY TO INSPECT THE COMPLETED INSTALLATION. ANY DEFECTS FOUND TO BE ACTIONED AND RECTIFIED BY THE CONTRACTOR(S) AT NO EXPENSE OR VARIATION CLAIM.

- PIPEWORK INSTALLED WITHIN BOXINGS, RISERS, FLOOR VOIDS, ETC. CAN BE EITHER PUSH FIT, COPPER TABLE X OR PEX PIPEWORK WITH CRIMPED JOINTS.

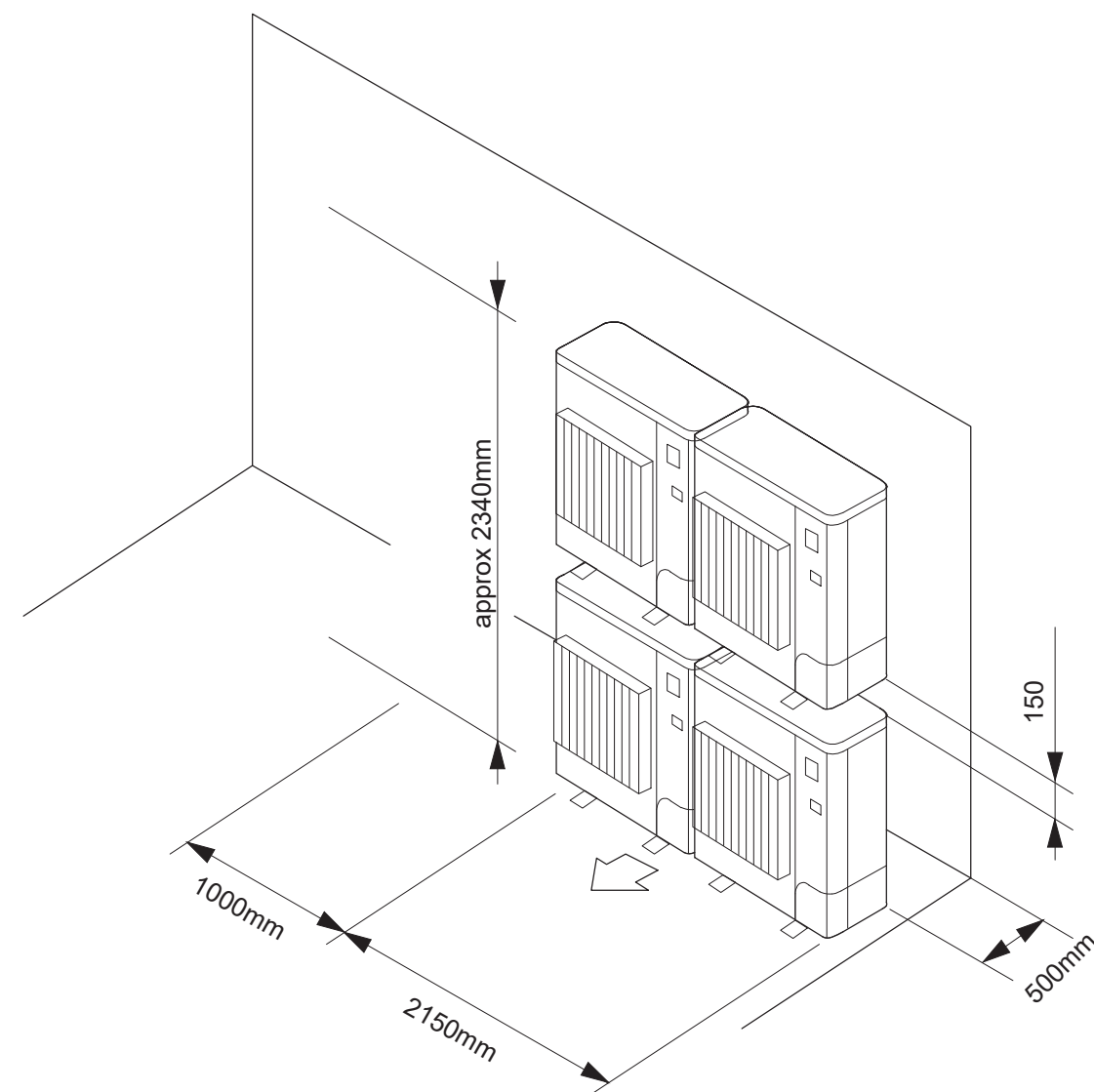
KEY:
- - - BELOW FFL
- - - HIGH LEVEL IN CEILING VOID
- - - LOW LEVEL



MITSUBISHI PRE-PLUMBED HOT WATER CYLINDER TO HOUSES



MITSUBISHI EXTERNAL AIR SOURCE HEAT PUMP



MITSUBISHI EXTERNAL AIR SOURCE HEAT PUMP

FLATS - ELECTRIC TOWEL RAILS MANUFACTURER : DIMPLEX							
REF	MODEL	LOCATION	DIMENSIONS	OUTPUT	WEIGHT	FINISH	ANCLLARIES
TR -ALL	BR400	BATHROOMS / EN-SUITES	1003mmH X 630mmW x 155mmD	400W	15 kg	WHITE	TRANSMITTER WITH 24HR TIMER - RF24T

1. FINAL LOCATIONS OF PANEL HEATERS/TOWEL RAILS TO BE AGREED WITH CONTRACT ADMINISTRATOR.
2. FINISH: TRAFFIC WHITE (RAL 9013). FINAL SPECIFICATION INCLUDING FINISHES TO BE AGREED WITH CONTRACT ADMINISTRATOR.
3. EACH PANEL HEATER COMPLETE WITH DIGITAL CONTROLLED 7 DAY PROGRAMMER.

RADIATOR SCHEDULE - MANUFACTURER: STELRAD - 55°C F / 45°C R (30ΔT)						
REF	LOCATION	MODEL	TYPE	LENGTH (mm)	HEIGHT (mm)	CONNECTIONS
FLAT 1						
RAD 1-1	LOUNGE	VITA PLAN	K2	1000	600	BOE
RAD 1-2	KITCHEN	VITA PLAN	K2	1000	600	BOE
RAD 1-3	BED 1	VITA PLAN	K2	1000	600	BOE
RAD 1-4	BED 2	VITA PLAN	K2	1000	600	BOE
RAD 1-5	CORRIDOR	VITA PLAN	K2	600	600	BOE
FLAT 2						
RAD 2-1	LOUNGE	VITA PLAN	K2	1000	600	BOE
RAD 2-2	KITCHEN	VITA PLAN	K2	1000	600	BOE
RAD 2-3	BED 2	VITA PLAN	K2	600	600	BOE
RAD 2-4	BED 1	VITA PLAN	K2	1000	600	BOE
RAD 2-5	CORRIDOR	VITA PLAN	K2	600	600	BOE

1. FINAL LOCATIONS OF RADIATORS TO BE AGREED WITH CONTRACT ADMINISTRATOR.
2. FINAL SPECIFICATION INCLUDING FINISHES TO BE AGREED WITH CONTRACT ADMINISTRATOR.
3. PRIOR TO ORDERING CONTRACTOR TO MEASURE SITE DIMENSIONS INCLUDING FFL TO WINDOW SEAL HEIGHTS AND IN LOCATION WHERE HEATERS TO BE INSTALLED INCLUDING CO-ORDINATE WITH ELECTRICAL SOCKETS ETC.
4. RADIATORS TO BE COMPLETE WITH MATCHING TRV AND LOCKSHIELD VALVES

FLATS 1-2: AIR SOURCE HEAT PUMP CONDENSER & HOT WATER CYLINDER MANUFACTURER : MITSUBISHI								
REF	MODEL	LOCATION	DIMENSIONS	ELEC	CAPACITY	WEIGHT (FULL)	NOISE	ACCESSORIES
HWC 01	170 STANDARD HOT WATER CYLINDER	STORE	1256mmH (DIM A) x 579mm DIA	3kw IMMERSION HEATER	170 L	232 kg	N/A	FTC4 CONTROL SYSTEM
EC 01 - EC 06	ECODAN MONOBLOCK - PUHZ-W60VAA	EXTERNALLY	1050mmW x 480mmD x 1020mmH	220-240V, 50Hz, 1PH R.C. 5.4 AMP (13 MAX) FUSE RATING: 16 AMP	6Kw	98 kg	58 dBA	DRAIN SOCKET AND DRAIN PAN TO SOAKAWAY. FIX IT FOOT. WIRELESS TRANSMITTER AND RECEIVED. WEATHER COMPENSATOR. MANUFACTURERS RECOMMENDED ANTI-FREEZE

