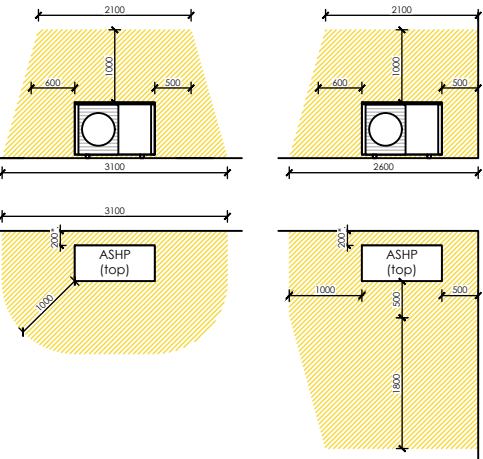


LOW CARBON PLANT

Minimum
Minimum
Dimensions denote minimum installation & maintenance clearances, extrapolated to hatched areas. All as defined by manufacturer's requirements, refer to product literature for specifics.

ASHP

ASHP
Vailant aroTHERM plus 3.5 / 5 / 7kW
dimensions: 765 / 965x1100x490mm (hwd)
Vailant aroTHERM plus 3.5kW: HT 211
Vailant aroTHERM plus 5kW: HT 421 & HT 531
Vailant aroTHERM plus 7kW: HT 641



*Clearance for heating only: +50mm if ASHP provides cooling.

Hot Water Cylinder

Mixergy cylinder 150 / 210L
dimensions: 1255 / 1585x545mm (hd)
Mixergy 150L for HT 211 & HT 212
Mixergy 210L for HT 421, HT 531 & HT 641

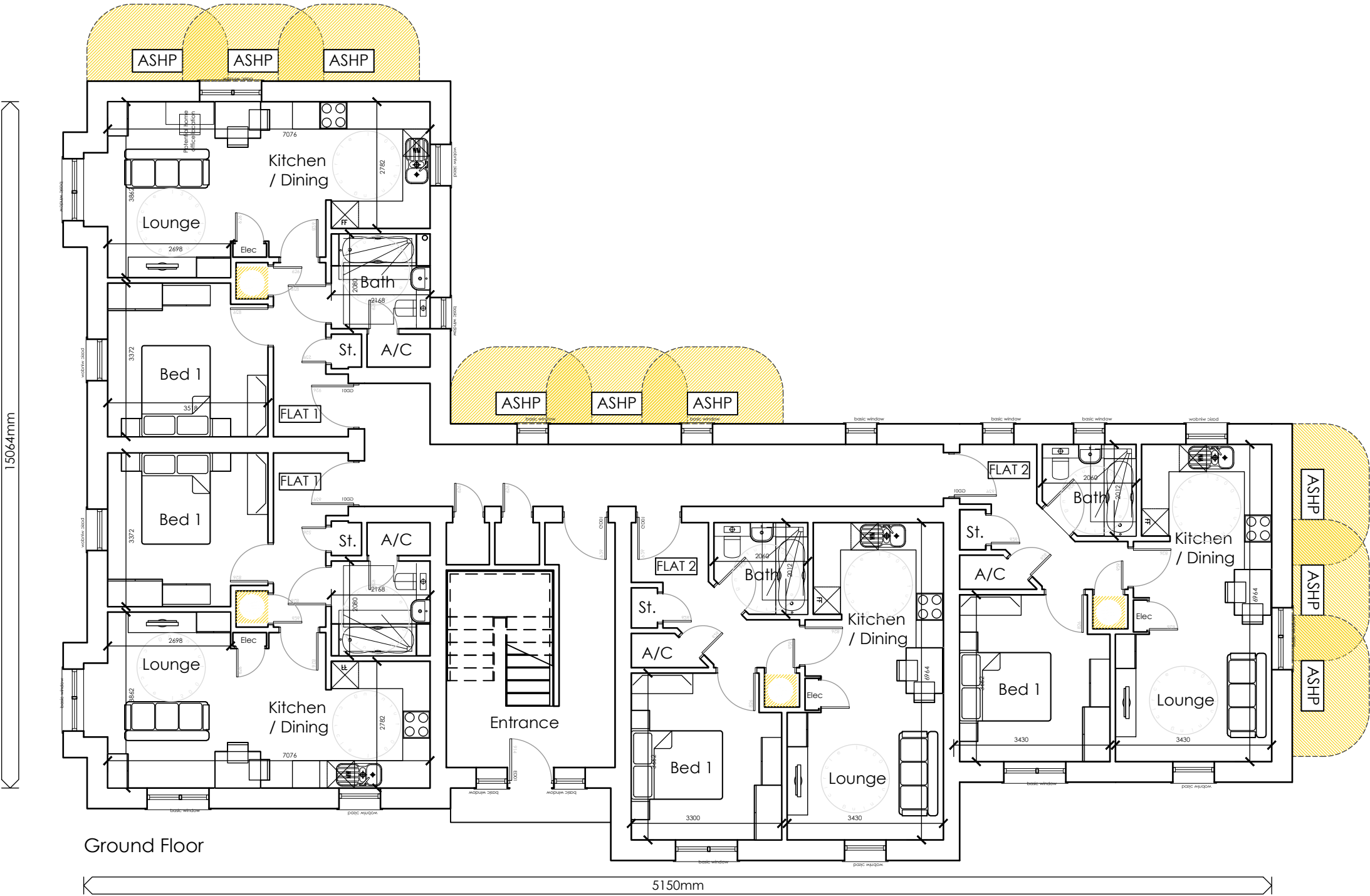
MVHR

Nuair MRXBOX-ECO2 (TBC)
dimensions: 504x607x357mm (hwd)
Volume flow: 40-324m³/h
Heat recovery: 83.0%* at 225m³/h
N.B. Maintenance clearances to be coordinated with Nuair prior to installation.

Battery Storage

Further discussion is required to consider the impact of PAS 63100 : 2024, which effectively precludes the indoor installation of storage batteries.

Note: Information presented indicatively for coordination with all - including manufacturer & model specification - TBC by relevant specialist consultant / subcontractor. All revisions to the plant specification must be reported for coordination.



Ground Floor

ASSUMED CONSTRUCTIONS

External walls	451mm
Internal walls	120mm
Intermediate floors	300mm

NB: The currently assumed external wall thickness of 451mm requires the use of PIR or similar petrochemical insulants in order to achieve the fabric u-value requirements of WDQR 2021 & revised AD: L (Wales) 2022 that are necessary for delivery of demand-based energy standards.

Increasing the allowance for external wall thickness to a notional 500mm would facilitate both the specification of natural/non-flammable insulation and closer alignment with Delivering Net Zero.

STORAGE

WDQR 2021 General Storage Requirements
2 Person 1 Bed Flat (Flat 1): 1.5m²

Store	0.50m²
Airing Cupboard (AC)	1.00m²
Total:	1.50m²

2 Person 1 Bed Flat (Flat 2): 1.5m²

Store	0.50m²
Airing Cupboard (AC)	1.03m²
Total:	1.53m²

FLOOR AREA

WDQR 2021 Area Requirements
2 Person 1 Bed Flat (Flat 1): : 50m²

GIA: 49.28m²

WDQR 2021 Area Requirements
2 Person 1 Bed Flat (Flat 1): : 50m²

GIA: 47.77m²

