# HIU, Dwelling Heating & DHW Commissioning Sheet (RAD)

MALCOLM BUILDING SERVICES

| Client | St Edward - Berkeley Group | Project | Oval Village - Block B | | |
|---|---|---|---|---|---|
| Address | | Core | | Apartment Type | |
| | | Floor | | Bedrooms | |
| Date | | Plot No | | Bathrooms | |

## System Inspections

| | |
|---|---|
| Visual inspection - Water visible? | Yes |
| Cold water supply active to unit? | Yes |
| Isolation valves open? | Yes |
| By-pass valves closed? | Yes |
| HIU strainer cleaned? | Yes |
| Heating System filled with Inhibitor? | Yes |
| System filling loop removed and store? | Yes |
| Fuse to 3amp? | Yes |
| Drain Cock(s) installed? | Yes |

## Domestic - System Readings

| Outlet | Design (l/m +/- 2) | Hot ( °C) | Hot (l/m) | Cold (l/m) | Drainage - Fill to overflow for 5 mins | Holding Water | Leaks | System Pressure | Bar |
|---|---|---|---|---|---|---|---|---|---|
| Kitchen Sink | 5 | | (max 9 l/m) | (max 9 l/m) | Kitchen Sink | Yes | No | Pressure Test complete | Yes |
| Bath | 6 | (TMV set to 40°C record max < 48 °C) | (max 8 l/m) | (max 8 l/m) | Bath | Yes | No | | |
| Shower | 8 | (TMV set to 40°C record max < 48 °C) | (max 8 l/m) | (max 8 l/m) | Shower | Yes | No | Pressure Regulating Valve (BCW) | 3 (max 3 Bar) |
| Basin | 3 | (TMV set to 40°C record max < 48 °C) | (max 5 l/m) | (max 5 l/m) | Basin | Yes | No | | |
| Ensuite Basin | 3 | (TMV set to 40°C record max < 48 °C) | (max 5 l/m) | (max 5 l/m) | Ensuite Basin | Yes | No | System Pressure (HIU) | 1.5 (1.5 Bar) |
| Ensuite Shower | 8 | (TMV set to 40°C record max < 48 °C) | (max 8 l/m) | (max 8 l/m) | Ensuite Shower | Yes | No | | |

Comments:

## HIU & Meter Details

| | | | |
|---|---|---|---|
| HIU Make and Model | | | |
| HIU Serial Number | | | |
| HIU Type (Tick all that apply) | Direct ☐ | Indirect ☐ | |
| | Heating ☐ | Hot Water ☐ | |
| HIU Pump Make and Model | | | |
| HIU Pump Serial Number | | | |
| Heat Meter Make and Model | | | |
| Heat Meter Serial Number | | | |
| Cold Water Meter Reading | $m^3$ | | |

| DH Network Design Temperatures | Design (°C +/-5) | Measured (°C) |
|---|---|---|
| Primary Flow | | |
| DHW Return | | |
| HTG Return | | |

## HIU Settings – DH Network

| | |
|---|---|
| Differential Pressure Control Valve (AVPL) provided within HIU? | ☑ Yes ☐ No |
| Temp Bypass ("keep warm") provided with HIU? | ☑ Yes ☐ No |
| Ability to switch off "keep warm" facility? | ☑ Yes ☐ No |
| Temp Bypass ("keep warm") to be utilised? | ☑ Yes ☐ No |
| Temp Bypass ("keep warm") installed upstream or downstream of heat meter? | |

| | | | |
|---|---|---|---|
| Reading 1 - Customer Number | no. | Differential Pressure Control Valve | no. / kPa |
| Reading 2 - Energy Consumed | kw/h or mw/h | DHW controller (Danfoss IHPT or AVTB) Setting No. | No. (range 45-65 °C) |
| Reading 3 - Water Volume | M3 | HTG controller (Danfoss Ravk) Setting No. | no. / °C |
| Reading 4 - Operating Hours | Hours | Pump Setting | Setting 1-11 |
| Reading 5 - DH network flow temp (Inlet temp) | °C | Safety Valve Setting | Bar |
| Reading 6 - DH Network Return Temp (outlet temp) | °C | Controlled Heating Zones | ☐ Zone 1 ☐ Zone 2 ☐ Zone 3 ☐ Zone 4 ☐ Zone 5 ☐ Zone 6 ☐ Zone 7 |
| Reading 7 - Pressure Differential (current) | Kpa | | |
| Reading 8 - Flow Rate Network Flowrate | l/hr | | |
| Reading 9 - Heating Effect (current) | kW | | |
| Reading 10 - Accumulated Consumption Volume | $m^3/h$ | Controller Operational | ☑ Yes ☐ No |

## Radiator Readings

| Room | PT40 Valve Setting | Temp (°C) | F&R Connection Correct |
|---|---|---|---|
| Living Room | | | |
| Living Room | | | |
| Bed 1 | | | |
| Bed 2 | | | |
| Bed 3 | | | |

**Comments:**

| Commissioning Engineer | Name: | Date | Signature: |
|---|---|---|---|
| | Ross Osborn | | Ross Osborn |

**This Certificate is valid on the date of commissioning only, any alterations to the installation and/or supply characteristics will void certificate.**