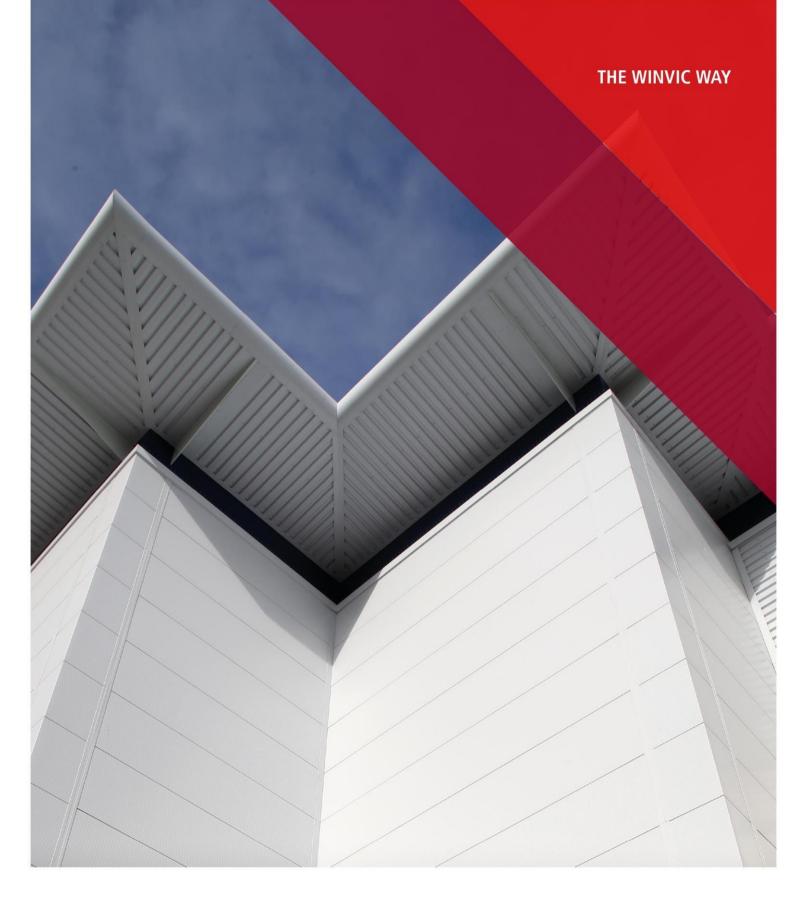


VOLUME 1: GENERAL INFORMATION



# **1.5.3 BUILDING LOGBOOK**





P21-017 – Kent Street Baths Edmond de Rothchild Building Logbook | December 2023





## Contents

1.	Updates and Annual Reviews	
1.	Purpose and Responsibilities	3
	Purpose of a building log book	3
2.	Links to Other Key Documents	4
3.	Main Contacts	5
4.	Commissioning, Handover and Compliance	7
	Commissioning overview	
	Commissioning results	
	Air infiltration	
	Handover	
5.	Overall Building Design General description of building	
	Client requirements	
	Special design features	
	Design assessment	
	Key interactionsError! Bookmark not defin	
	Benefits and limitations of the design.	
	Key 'dos and don'ts'	
6	Summary of Areas and Occupancy.	
0.	Occupancy and activities	
	Floor areas	
	Tenancies	
	Separately managed and special areas	
7	Summary of Main Building Services Plant	
1.	SYSTEMS:	
	Mechanical Services	
	SYSTEMS:	
	Electrical Services	
Q	Occupant Information	
0.	Your working environment	
	Heating:	
	Cooling:	
	Ventilation:	
	Simple energy 'dos and don'ts'	
9.		
9.	Metering schedule	
1(	•	
10	Overall annual energy performance	
	Historical Building Performance Graph	
	Energy end use comparison	
	Historical Graph of End-Use Performance	
	References	
11		
I	Maintenance overview	
	Maintenance review	
12	Maintenance/plant failures	
13	······································	
	Defects liability work	
	Post occupancy evaluations	
	Surveys	53

P21-017 Kent Street Baths

Ref: T66 Issue: 1	Date: November 2022	Page 1 of 55



# **1. Updates and Annual Reviews**

The log book should be reviewed annually as part of the organisation's quality assurance system and an entry should be made for each review. Where the log book has been updated then the changed pages should be recorded.

Review date	Description of annual logbook review and updates made	Pages updated or added	Facilities manager's Signature	Date
08/01/24	Document for review			
	Document handed over			

## P21-017 Kent Street Baths

Ref: T66         Issue: 1         Date: November 2022         Page 2 of 55
--



## 1. Purpose and Responsibilities

## Purpose of a building log book

This log book is an easily accessible focal point of current information for all those working in the building. It has four main functions:

- **Summary of the building:** it is a summary of all the key information about the building, including the original design, commissioning and handover details, and information on its management and performance. In being a summary, it does not wholly duplicate or replace the O&M manuals. The log book is necessary for compliance with Building Regulations Part L2.
- Key reference point: it is <u>the</u> single document in which key building energy information is logged. It may be regarded as the hub document linking many other relevant documents. The log book should provide key references to the detail held in less accessible O&M manuals, BMS manuals and commissioning records. It should therefore be kept in a readily accessible (designated) position in the main building operations room and should not be removed without the approval of the facilities manager.
- **Source of information/training:** it provides a key source of information for anyone involved in the daily management or operation of the building and to anyone carrying out work on the building and its services. It is relevant to new staff and external contractors/consultants and may play a role in staff training and induction.
- **Dynamic document:** it is a place to log changes to the building and its operation. It is also used to log building energy performance and continual fine-tuning commissioning. It is essential that it is kept up-to-date. Alterations should only be made with the approval of the facilities manager and should be signed and dated by that person.

Further guidance on using building log books is given in Action Energy Good Practice Guide GPG 348: *Building log books — a user's guide*, available from www.actionenergy.org.uk

This building logbook was prepared by:	Winvic Construction Ltd Brampton House Moulton Park Northampton NN3 6PZ
	Dated: July 2022
Facilities manager responsible for logbook:	Signed:
	Contact No:
Signed:	Date:

#### Key responsibilities of facilities manager:

- To ensure that the logbook is correct and up-to-date at building handover and when passing it on to a successor
- To ensure that the logbook is kept up to date on an ongoing basis including any changes to the building fabric, services, operation or management
- To ensure that building maintenance and energy performance are logged
- To ensure that all those working in the building are made aware of the information contained in the logbook
- To ensure that the logbook is always kept in its designated location.

#### P21-017 Kent Street Baths



# 2. Links to Other Key Documents

Document	Location
Emergency Procedures	Section 2.1 of the O & M Manual
Health and Safety	Section 2 of the O & M Manual
Schedule of Hazards Associated with Materials Used	Section 2.4 of the O & M Manual
Record Drawings	Section 7 of the O & M Manual
Equipment Logbooks (e.g., Boiler log book)	With Equipment
Testing & commissioning certificates & reports	Section 6 of the O & M Manual
Plant & Equipment data	Section 4 of the O & M Manual



# 3. Main Contacts

Emergency Contact Name 1	
Emergency Contact Name 2	
Electricity Emergency Contact	105
Gas Emergency Contact	National Gas Emergencies 0800 111 999
Water Emergency Contact	Severn Trent Water 0800 783 4444
Lead Designer Contact Name	Howells Ryanbd@howells.uk howells.uk +44 (0)121 666 7640
Building Services Design Contact Name	
Principle Contractor	Winvic Construction Limited Brampton House 19 Tenter Road Moulton Park NorthamptonNN3 6PZ Tel: 01604 678 960
Mechanical Services Installer	WMBS 657 Melton Rd, Thurmaston, Leicester LE4 8EB
Sprinkler Services Installer	Ecotect Fire Suppression Underbank Way Rossendale Lancashire BB4 5HR
Commissioning Managers Name	Peter Read Winvic Construction Limited Brampton House 19 Tenter Road Moulton Park NorthamptonNN3 6PZ Tel: 01604 678 960
Electrical Services Installer	Skerritts Electrical Limited 1087 Kingsbury Rd, Castle Vale, Birmingham B35 6AJ
Smoke Vent Installer	NSP Europa Building

P21-017 Kent Street Baths

	Ref: T66	Issue: 1	Date: November 2022	Page <b>5</b> of <b>55</b>
--	----------	----------	---------------------	----------------------------



	Hoo Farm Industrial Estate Kidderminster Worcestershire, DY11 7RA
Planning Supervisor Name	
O&M and Logbook Author Name	Winvic Construction Limited Brampton House 19 Tenter Road Moulton Park NorthamptonNN3 6PZ Tel: 01604 678 960
Mechanical & Electrical Consultant	
Facilities Management Contractor Name	
Maintenance Contractor Name	

Т	66

Ref: T66 Issue: 1	Date: November 2022	Page 6 of 55
-------------------	---------------------	--------------



# 4. Commissioning, Handover and Compliance

## **Commissioning overview**

CIBSE Commissioning Code	Followed? (Yes/No)	Certificate included in appendix? (Yes/No)
Code M: Commissioning Management	Yes	No Section 6 of the O&M Manual
Code A: Air Distribution Systems	Yes	No Section 6 of the O&M Manual
Code C: Automatic Controls	Yes	No Section 6 of the O&M Manual
Code L: Lighting	Yes	No Section 6 of the O&M Manual
Code R: Refrigeration	Yes	No Section 6 of the O&M Manual
Code W: Water Distribution Systems	Yes	No Section 6 of the O&M Manual

## **Commissioning results**

Commissioning period 24.10.22 to 28.10.22 Signed:	<ol> <li>Were the system and its controls installed as shown in the design drawings? (Yes/No)</li> </ol>	2. Did operation meet the design specifications in all the required modes? (Yes/No)	<ol> <li>3. Did the system operate efficiently in all modes? (Yes/No)</li> </ol>	<b>Comments/problems?</b> Where the answer is NO, indicate any commissioning problems or significant changes that have been made to the designs during (or as a result of) installation/commissioning, or any value engineering exercises, including any significant commissioning failures and remedial work that took place.
Water Chlorination Certificate	Yes	Yes	Yes	
External Services Test Sheet	Yes	Yes	Yes	
MCW Pipework Test Certificates	Yes	Yes	Yes	
HWS Pipework Test Certificates	Yes	Yes	Yes	
AGD Pipework Test Certificates	Yes	Yes	Yes	
TMV Test Sheets	Yes	Yes	Yes	
AC Commissioning Sheets	Yes	Yes	Yes	
Ventilation Air Balance Sheets	Yes	Yes	Yes	
WC Extract Air Balance Sheets	Yes	Yes	Yes	
Energy Monitoring & Leak Detection Commissioning Certificate	Yes	Yes	Yes	
Booster Set Commissioning Sheets	Yes	Yes	Yes	
Fire Damper Certificates	Yes	Yes	Yes	
Rainwater Harvesting Commissioning Sheets	Yes	Yes	Yes	

## P21-017 Kent Street Baths

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Ref: T66 Issue: 1 Date: November 2022 Page 7 of 55
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## Air infiltration

A building air pressure test was carried out on the ...... and showed a measured air permeability of ...... which was within the specified target refer to building manuals for full rest report.

## Handover

Handover took place on:08/04/2024End of defects liability period:\*\*/\*\*/\*\*The handover procedure was managed by:Ross Porter

The documents handed over are listed in section 3 - Key Documents

#### P21-017 Kent Street Baths

	Ref: T66	Issue: 1	Date: November 2022	Page <b>8</b> of <b>55</b>
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# 5. Overall Building Design

General description of building

## **Client requirements**

The services to the building have been designed in accordance with all relevant building regulations And the design criteria detailed below:

## Special design features

#### Design assessment

In accordance with the requirements of the Building Regulations Part L2 carbon emissions were assessed using the carbon emissions method. This showed the annual carbon emissions of the building were proved to be no greater than that of from a notional building of the same size and shape designed to comply with the elemental method.

The assessment carried out on the building and issued to Building Control verified that the building fabric meets with the minimum performance levels stipulated and the plant and equipment selected for the M&E services systems were within maximum carbon emission limits. The submission to Building Control also demonstrated that the M&E systems were controlled in such a way the energy wasted was minimised.

## Design Criteria

The design of the services is in accordance with the following reference standards, good industry practices and relevant documentation: -

- CIBSE Guides, Codes, Technical Memorandums and Practice Notes
- Institute of Plumbing IOP -
- Water Regulations Advisory Scheme WRAS
- BS 8558 Guide to the design, installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages
- BS EN 806 Specifications for installations inside buildings conveying water for human consumption. The Building Regulations - Approved Document G – Sanitation, hot water safety and water efficiency. The Building Regulations – Approved Document F - Ventilation
- The Building Regulations Approved Document H Drainage and Waste Disposal
- BS EN 12056 Gravity Drainage Systems inside Buildings (Parts 1, 2, 4 & 5)
- COSHH Regulations

#### P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>9</b> of <b>55</b>



#### The following electrical services have been provided:

- Landlords lighting and small power
- Landlords fire alarm
- Containment to landlords' areas
- Submains cable to apartments from MSDBs
- Lighting, small power and fire alarm to apartments
- External lighting
- Door intercom
- Security/CCTV
- Lightning protection
- Secondary life safety supplies
- Photo Voltaic array

#### P21-017 Kent Street Baths

Ref: T66         Issue: 1         Date: November 2022         Page 10 of 55
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## **Electrical Design Criteria**

The following design parameters have been employed when carrying out of all design works.

Electrical I	nstallation
Apartments	Landlords
BS7671:A1 2020 (18 <sup>th</sup> Edition)	BS7671:A1 2020 (18 <sup>th</sup> Edition)
Part L1A Building Regs	Part L2A Building Regs
Part M Volume 1 Building Regs	Part M Volume 2 Building Regs
BS9991	BS9999

Fire A	larm
Apartments	Landlords
BS5839-6	BS5839-1

Emergency	/ Lighting
Apartments	Landlords
n/a	BS5266

Lightning F	Protection
Apartments	Landlords
n/a	BS62305

Landlord Lighting	Average Lux Level
Circulation & Corridors	100
Staircases	100
Lifts	100
Rest Rooms	100
Washrooms / Bathrooms / Toilets	200
Plant rooms & switch rooms	200
Store rooms	100
Refuse	200
Entrance areas	200
Kitchen	500
Apartment	Average Lux Level
Main Areas – Living Room / Kitchen	Non-dimmable downlight adequate number of light fittings
Bedroom	1 Pendant,
External Lighting	Average Lux Level
Pathways, Main Access	10
Pathways, Secondary	

## Benefits and limitations of the design

## Key 'dos and don'ts'

Do:

- 1. Monitor heating, cooling and ventilation to ensure good operation
- 2. Be aware of all risks
- 3. Monitor energy usage within the building, this will enable the facilities manager to adjust timed starts/holiday periods etc to avoid excessive energy waste.
- 4. Follow the manuals regarding regular maintenance
- 5. Consult the relevant person for advice and instruction if required

P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>11</b> of <b>55</b>
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- 6. Employ specialists to service and maintain major plant items and systems including AC systems and controls, this will ensure their continued efficiency and use.
- 7. Consult with control specialist to request further training and demonstrations, if necessary, this will ensure that the building management system is operating to its best with regards to the specific building.

#### Don't:

- 1. Operate the plant 24 hours/day, seven days a week unless occupancy hours dictate this
- 2. Overheat the building
- 3. Leave heat generating equipment/machines left on unnecessarily and have energy saving features enabled as this will prevent your space from overheating and save energy
- 4. Open windows if cooling system operational.
- 5. Adjust set points or control logic from that set up without prior consultation with consultants or energy manager.

	Ref: T66 Issue: 1	Date: November 2022 Page 12 of 55
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## Occupancy and activities

The total number of occupants in the building is...... (Based on core hours of use)

hours	Saturday hours	Sunday hours	Total hours/week	Flextime (Yes/No?)	Late working sometimes (Yes/No?)	No. of occupants

Insert a summary of the main activities in each different zone of the building. Insert a summary of the likely occupancy patterns including numbers of people and occupancy periods.

## Floor areas

The total floor area is m<sup>2</sup> (based on gross floor area)

		% O	f total area by	servicing s	ystem		Total %	Total area (m <sup>2</sup> )
Area type	Untreated	Naturally ventilated	Mechanically ventilated	Heating Only	Heating & Cooling	Heated & Ventilated		
Total (%)								
Total area (m <sup>2</sup> )								





Tenancies Not applicable

Separately managed and special areas Not applicable

## P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page 14 of 55
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## Floor plans

Copies of thee electrical service drawings are available in the electrical section of the Building O&M manual provided under separate cover.

## P21-017 Kent Street Baths

Ref: T66         Issue: 1         Date: November 2022         Page 15 of 55
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# 7. Summary of Main Building Services Plant

The main energy using plant (above 5Kw) installed at the site at handover is the

Main plant items are shown below. The operation & maintenance manuals provide further detail.

Main plant	Location	Input (kW)	Output (kW
Block A – Main Switch Panel	Block A1 - Lower Ground Floor – LV Switch Room 1		
Block A – Secondary Switch Panel	Block A2 – Ground Floor – LV Switch Room 2		
Block B – Main Switch Panel	Block B1 – Lower Ground Floor – LV Switch Room 1		
Block B – Secondary Switch Panel	Block B1 – Lower Ground Floor – LV Switch Room 2		
Block C - Main Switch Panel	Block C – Lower Ground Floor – LV Switch Room 1		
Block C – Secondary Switch Panel	Block C – Lower Ground Floor – LV Switch Room 2		
Block D – Main Switch Panel	Block D – Lower Ground Floor – LV Switch Room 1		
Block D – Secondary Switch Panel	Block D – Lower Ground Floor – LV Switch Room 2		
Sprinkler System Electric Pump Set			
Booster Set			
AOV Extract Fans	Car Park Plant Room	18KW	
AOV Extract Fans	Block A1 Roof	41KW	
AOV Extract Fans	Block A2 Roof	8.35KW	
AOV Extract Fans	Block B1 Roof	11.2KW	
AOV Extract Fans	Block B2 Roof	11.6KW	
AOV Extract Fans	Block C Roof	14.7KW	
AOV Extract Fans	Block D Roof	14.7KW	

P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>16</b> of <b>55</b>	



## SYSTEMS:

**Mechanical Services** 

## SYSTEMS:

## **Electrical Services**

We have installed eight MCCB switch/panel boards

[A/MP1] – Block A Switch Board Landlords
[A/MP2] – Block A Switch Board Life Safety
[B/MP1] – Block B Switch Board Landlords
[B/MP2] – Block C Switch Board Life Safety
[C/MP1] – Block C Switch Board Life Safety
[D/MP1] – Block D Switch Board Landlords
[D/MP2] – Block D Switch Board Life Safety

Main LV panel board [A/MP1] is a floor mounted panel serving general use and life safety circuits, located within Block A1 Lower ground floor LV switch room 1, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block A LV schematic for full details.

Main LV panel board [A/MP2] is a wall mounted panel serving life safety circuits, located within Block A2 ground floor LV switch room 2, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block A LV schematic for full details.

Main LV panel board [B/MP1] is a floor mounted panel serving general use and life safety circuits, located within Block B1 lower ground floor LV switch room 1, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block B LV schematic for full details.

Main LV panel board [B/MP2] is a wall mounted panel serving life safety circuits, located within Block B1 lower ground floor LV switch room 2, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block B LV schematic for full details.

Main LV panel board [C/MP1] is a wall mounted panel serving general use and life safety circuits, located within Block C lower ground floor LV switch room 1, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block C LV schematic for full details.

P21-017	Kent Street Baths	Prepared by Winvic

	Ref: T66	Issue: 1	Date: November 2022	Page <b>17</b> of <b>55</b>
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Main LV panel board [C/MP2] is a wall mounted panel serving life safety circuits, located within Block C lower ground floor LV switch room 2, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block C LV schematic for full details.

Main LV panel board [D/MP1] is a wall mounted panel serving general use and life safety circuits, located within Block D lower ground floor LV switch room 1, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block D LV schematic for full details.

Main LV panel board [D/MP2] is a wall mounted panel serving life safety circuits, located within Block D lower ground floor LV switch room 2, suitable for the supply capacity and complete with necessary outgoing MCCB's and a minimum of 25% allowance space capacity refer to Block D LV schematic for full details.

## Consumer Units

Within each apartment we have installed an Scolmore Elucian Hi-integrity consumer unit and all the relevant RCBOs to serve the apartments small power and lighting requirements with 2 spare ways for future use. The consumer unit is surface mounted and located in the utility cupboard of the apartment.

All apartment meters, electricity cut-outs and associated multi-service distribution boards and cabling has been supplied, installed and tested by others.

## Small Power – Communal Areas

Within the communal areas and landlord areas we have installed the following Click Scolmore accessories;

Metalclad – Riser cupboards, Store/Plantrooms and within Ceiling Voids to include emergency test Key switches, light switches, double socket outlets, switched fused connection units, and unswitched fused connection units.

Mode White Plastic – Corridors, Entrance Lobbies and Reception Areas, to include light switches, single socket outlets, double socket outlets, switched fused connection units, unswitched fused connection units.

All white plastic single socket outlets for cleaner's use are engraved 'CLEANERS ONLY'

#### P21-017 Kent Street Baths



Within the apartments we have installed Click Scolmore Mode electrical accessories with white plastic finish and include;

- 13A 1 Gang Switched Socket
- 13A 1 Gang Unswitched Socket
- 13A 2 Gang Switched Socket
- 45A Cooker Switch
- 45A Cooker Connection Plate
- Dual Voltage Shaver Socket [115v/230v]
- 3 Pole Fan Isolator
- 4 Way Multi Gang Grid c/w Dishwasher, Fan, Fridge Freezer & Cooker Modules
- 13A Switched Fused Connection Unit
- 10A 1 Gang 1 Way Light Switch
- 10A 2 Gang 2 Way Light Switch
- 1 Gang Blank Plate
- 2 Gang Blank Plate

Locations of electrical accessories as denoted on 'Typical Layout Drawings' within Section 9 of the Electrical O&M manual.

## General Lighting – Communal Areas

## Car Park, Storerooms & Plant Rooms

Within the car park, storerooms and plant rooms we have installed standard LED and emergency type Sylvania Resisto LED fittings with IP65 rating and 4000K colour temperature.

## Stairwells

Within the stairwells we have installed emergency type Sylvania Giotto 305 LED circular bulkhead fittings with IP44 rating and 4000K colour temperature, each fitting has a built in microwave sensor to control the light.

## Corridors, Lobbies,

Within the corridors, lobbies, we have installed standard and emergency type Sylvania Start downlight LED fittings with IP20 rating and 4000K colour temperature.

## Riser Cupboards

Within the riser cupboards we have installed standard LED and emergency type Sylvania Resisto LED fittings with IP65 rating and 4000K colour temperature.

P21-017	Kent Street Baths	Prepared by Winvic
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	Ref: T66	Issue: 1	Date: November 2022	Page <b>19</b> of <b>55</b>
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## Emergency Lighting

Emergency lighting either is integrated into the main light fittings or a standalone emergency spot light has been provided to corridors. Throughout the site we have installed emergency exit fittings with running man legends to highlight points of egress. External to final exit doors we have installed LED emergency bulkhead fittings.

## General Lighting Control – Communal Areas

## Car Park

Within the car park we have installed IP65 microwave presence detectors installed to the underside of the lighting trunking designed to provide automatic control of the lighting. The detector works by emitting low power microwave sensors and measuring the reflections as the signal bounce off of moving objects over long distances. The internal light sensor provides additional energy saving by monitoring the natural light and only switching the lighting on when the natural light drops below a pre-set level.

## Receptions, Lobbies, Plant Rooms Cleaner's Stores

We have installed ceiling mounted occupancy sensors to provide automatic control of the lighting. Functioning as a presence detector the units will turn the lights on when the room is occupied and off when the room is unoccupied.

## Corridors

Within the corridors we have installed surfaced mounted long-range occupancy sensors with an adjustable head to provide automatic control of the lighting, ideal for corridor applications where a long narrow detection is required.

## Emergency Lighting

Emergency lighting test key switches have been installed adjacent to each distribution board feeding the lighting circuits to allow the testing of the emergency lighting.

Emergency light fittings are fitted with a visible green LED charging indicator and the system is designed in accordance with BS 5266.

## General Lightning and Lighting Control – Apartments

Within all lounges, we have installed JCC GU10 ceiling recessed LED downlights with IP20 ratings, user replaceable LED GU10 lamps have been installed with a 3000K colour temperature. The fittings are controlled via wall mounted light switches.

Within kitchens & bathrooms we have installed JCC GU10 ceiling recessed LED downlights with IP65 rating and 3000K colour temperature. The fittings are controlled via wall mounted manually operated rocker switches.

P21-017	Kent Street Baths	Prepared by Winvic

Ref: T66         Issue: 1         Date: November 2022         Page 20 of 55
---



Within bedrooms we have installed Hager 6" Pendant sets and user replaceable B22 lamps, 3000K colour temperature. The fittings are controlled via wall mounted manually operated rocker switches.

For apartments with balconies we have installed wall mounted search light up/down wall light LED GU10 fittings with IP65 rating and 3000K colour temperature. The fittings are controlled via a wall mounted light switch adjacent to the balcony door.

## External Lighting and Lighting Control

The lighting within the general access areas on the ground floor entrances and podium is illuminated with the use of floor mounted Lighting Project Solutions LED lighting columns, lighting bollards and inground LED uplighters and spike lights. The fittings are controlled via a timeclock located in the feeder pillar situated on the podium between Blocks B &C

In addition to this lighting, the private spaces outside of we have installed wall mounted search light up/down wall light LED GU10 fittings with IP65 rating and 3000K colour temperature. The fittings are controlled via a wall mounted light switch adjacent to the balcony door.

Ref: T66	Issue: 1	Date: November 2022	Page <b>21</b> of <b>55</b>



## Fire Alarm – Communal

The communal areas are protected by an addressable fire alarm system. The system is a mixed category system, Category L5 has been used in corridors & stairwells serving residential areas as means of operating the AOV within residential corridors and stairwells. Category L2 protection has been used on amenity areas where simultaneous evacuation is required.

All panels have been programmed with zones and areas with a zone chart to match installed above each panel, All panels are networked back to the main panel located within Block A's concierge. Each block is capable of being removed from the network and operated separately if required in future.

Block A – Main Panel is situated in the ground floor reception / concierge, Block A1 – Repeater Panel is situated in the ground floor entrance of Stair core A1 Block A1 – Repeater Panel is situated in the ground floor entrance of Stair core A2 Block B1 – Main Panel is situated in the lower ground floor entrance of Stair Core B1 Block B1 – Repeater Panel is situated in the ground floor entrance of Stair Core B2 Block C – Main Panel is situated in the ground floor entrance of Stair Core C Block D – Main Panel is situated in the ground floor entrance of Stair Core D

All audible and visual output devices are configured to operate upon general alarm. An alarm generated from either a detector or manual call point will initiate an evacuation response. The audibility of the system has not been designed in accordance with BS 5839.

Interfaces have been installed and configured to operate in general alarm and are provide for the following;

- Lifts
- Door Access
- AOV Smoke Extraction
- Sprinkler Monitoring
- Mechanical Ventilation

The interfaces for the AOV and sprinkler system have been confirmed to meet the cause and effect requirements provided by the specialist contractors.

Manual call points have been installed to ground floor final exits doors of residential areas and to the L2 protected area. Testing of these devices can be completed using a special tool which is inserted to the underside of the unit, some of these tools have been left onsite. Clear lift flap covers have been installed to the units to prevent accidental operation.

## P21-017 Kent Street Baths

## Ref: T66 Issue: 1 Date: November 2022 Page 22 of 55



## Disabled Refuge (Emergency Voice Communication System)

A disabled refuge system has been installed as shown on as fitted drawings 0300s in section 11 of this manual.

Simple and effective 'full duplex' two-way communication is essential, firstly to assist rescue teams in determining where assistance is required and secondly to reassure people help is on the way.

A refuge system provides a means of calling for assistance in the event of an emergency. A designated "safe area" isolates exiting occupants from the effects of smoke and heat during a fire or emergency situation. The communication system allows the person in need to inform security of their location in the building and provides an area that are relatively safe places where people who cannot easily use fire escapes.

When a call is generated at the refuge area, the central control panel will sound and display the location of the incoming call. Lifting the handset and pressing the appropriate zone button at the central station will open the speech channel (loudspeaker) allowing a 'full duplex' conversation to take place. The disabled refuge outstation can be used to call for assistance and reassure the person until help arrives.

The system is compliant to BS9999 & BS5839 Pt9. 2010 and has Battery support of 24 + 3 hours (emergency). CE 2012 certified.

A main panel is installed in Block A reception / concierge c/w with handset and visual indicators for use and fault.

These are linked to the outstations located;

Block A, Stair core A1, level B0 serving the lower ground floor ancillary accommodation.

Block A, Stair core A1, level 1 serving level 1 amenity accommodation.

Block A, Stair core A1 level 2 Lobby serving level 2 amenity accommodation.

Block A, Stair core A2 level 1 Lobby serving level 1 amenity accommodation.

Block A, Stair core A2 level 2 Lobby serving level 2 amenity accommodation.

In addition to Block A's main refuge panel, Blocks C & D also have a main panel located at the ground floor entrance of each stair core. Block C & D's main panel is repeated to Block A's main panel in the reception / concierge.

## P21-017 Kent Street Baths Prepared by Winvic



Block C, main panel, c/w handset and visual indicators for use and fault. Are linked to Block C, Stair core level B0 - serving the lower ground floor ancillary accommodation.

Block D, main panel, c/w handset and visual indicators for use and fault. Are linked to Block D, Stair core level B0 - serving the lower ground floor ancillary accommodation.

Note that Block B's amenity and lower ground floor areas have escape routes at each level leading to the podium or street level.

The system outstations are wired in 1.5mm enhanced fire rated cable.

## Smoke/Heat Detectors – Apartments

Within the apartment bedroom[s] and utility cupboards we have installed Aico mains powered, battery back-up interlinked smoke detectors, within the living room / kitchen we have installed Aico mains powered, battery back-up interlinked multi-sensor (heat/smoke) detectors. Each device has a "Test" button to test, silence the alarms. The alarms are certified to EN 14604:2005+AC:2008 and provide a sound level of 85db[A] at 3m [minimum]

## CCTV System

A full 1080P HD Dahua CCTV system has been installed to internal and external areas. All internal cameras are 5MP full 1080P dome cameras with a fixed lens, all external cameras are 5MP full 1080P IP67 dome cameras with vari-focal fixed lens. All cameras are powered by the NVR a PoE switch located in the nearest coms room, each camera is connected to the network using CAT6 cable.

A 28" colour monitor has been installed in the main reception and Block A coms room for interrogating the system. The monitor has a HDMI extender to the NVRs and USB extender for mouse control of the NVR.

## Access Control and Video Intercom

The resident and staff access control system is an NSP PC based system with proximity readers to control external doors, internal doors. The system was procured directly between NSP&Winvic, Refer to NSP as built drawings for location.

The door access controllers are located in risers, switch rooms or plant rooms as denoted on the 'as built' drawings. Each door has a proximity reader, request to exit button, green break glass and magnetic lock. Each door controller is supplied with battery backup.

## P21-017 Kent Street Baths

Ref: T66 Issue: 1	Date: November 2022	Page <b>24</b> of <b>55</b>
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The NSP access system is PC based [PC supplied by others] for the software to be installed on. The software will allow staff to add and remove user from the system via a desktop reader.

A NSP digital intercom system has been installed with an external keypad at the main reception entrance and to allow visitors to contact the apartments and the main reception to gain access into the building.

All cabling for the intercom system is CAT6 cabling.

## TV System

The TV system has been designed and installed to provide Freeview and Sky Q satellite services on coaxial cables to each apartment from a central, roof mounted aerial array.

From the rooftop array, a 5-core coaxial cable has been installed down to numerous risers within the building and connected to amplifiers and multi-switches.

For one bed apartment, coaxial cables have been installed from the local riser to the lounge and terminated into a quadplexer. A return module has been installed adjacent with a single coax cable linked to the bedroom to enable the provision of TV signals within the bedroom.

For a two-bed apartment, a coaxial cables have been installed from the local riser to the lounge and terminated into a quadplexer. A single coaxial from the lounge to the utility cupboard has been installed and terminated into a splitter, a single coaxial cable has been installed from the splitter to each bedroom and terminated into single coax module to enable the provision of TV signals within the bedrooms.

If the tenant takes out a SkyQ contract, sky will provide the residents with a SkyQ box which can be connected into the lounge quadplexor plate, additional SkyQ Miniboxes can be added to the contract and used to watch Sky within the bedrooms.

All locally available Freeview digital services and Sky Q is available within each apartment, subject to installation and subscriptions of kit/services.

## Lightning Protection

Ref: T66

A level I lighting protection system has been installed conforming to BS EN 62305:2011.

Issue: 1

		BS EN 62305:2011 Level IV Lightning Protection System		
Air Terminati	on Work	A faraday cage system compromising of an amalgam of 25x3mm ba	ar	
P21-017	Kent Stre	et Baths	Prepared	by Winvic

Date: November 2022

Page 25 of 55



	aluminium roof conductors fixed to all roof areas with appropriate fixings
Down Conductor[s]	The structural steelwork has been utilised as the conductive discharge path to
	earth
Bonds	1No. Equipotential bond to incoming mains
	Various bonds at roof at roof level to extraneous metalwork/plant*
	Various structural steel at low level
	Various structural steel at high level
Joints	As necessary, bolted and clamped
Test Points	Clamps with within inspection housing
Earth Termination[s]	2.4m x 16mm copper bonded steel earth electrodes complete with
	concrete/polymer lockable inspection pit

\* Roof Plant – Where bonding to roof mounted plant is required, unless otherwise specified we have assumed that the plant casing is sufficient thickness to withstand a direct lightning strike without puncture to the casing and thus be directly bonded to the system.

## Electric Heating – Communal Areas

Within the ground floor communal areas, we have installed ATC Almeria electric panel heaters in 500/750/1000/1500w and 2000w ratings [selection dependant on room size] with built in digital thermostatic & time control.

## Electric Heating – Apartments

Within the apartments we have installed ATC Almeria electric panel heaters in 500/750/1000/1500w and 2000w ratings [selection dependant on room size] with built in digital thermostatic & time control.

Within the bathroom and ensuites we have installed 300w electric towel rails with smart thermostatic elements regulated at 50 degrees.

Locations of as denoted on 'Typical Layout Drawings' within Section 9 of this manual.

#### SYSTEMS:

### Sprinkler System

#### SYSTEM COVERAGE

Kent Street Baths features Blueflow® fire sprinkler protection. The corridors are not sprinkler protected.

The system has been installed to comply with a Fire Engineered Strategy by BB7 (BB-DFS-HIG00006-01-C).

**DESCRIPTION & SPECIFICATION** 

P21-017 Kent Street Baths

Ref: T66         Issue: 1         Date: November 2022         Page 26 of 55
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The residential fire sprinkler system meets the minimum requirements as detailed for Category 2 systems within Code of Practice BS 9251:2014 Fire Sprinkler Systems for Domestic and Residential Occupancies

Any minor variations are set out on the fire sprinkler compliance certificate. It is designed for any two sprinklers to activate simultaneously, and to run for minimum 60 minutes duration of supply. The system is fed from the dedicated sprinkler pump set (by Ecotect) and shared water storage tank (by others), with distribution throughout the property by Ecotect.

A valve control and flow switch per floor level are located within the mechanical riser cupboard, with access panels by others. There is also a valve set at the base of the system in the plantroom.

The commericial fire sprinkler system meets the minimum requirements as detailed for Ordinary Hazard 2 systems within Code of Practice BS EN:12845 (2015 +A1 2019) Fixed firefighting systems, Automatic sprinkler systems

Any minor variations are set out on the fire sprinkler compliance certificate. It is designed for any 180m<sup>2</sup> area of sprinklers to activate simultaneously, and to run for minimum 60 minutes duration of supply.

The system is fed from the dedicated sprinkler pump set and water storage tank (by Ecotect), with distribution throughout the property by Ecotect.

#### SPRINKLER ACTIVATION

The Blueflow® fire sprinkler system is designed on a dedicated pipe circuit. The heads operate independently whereby the nearest sprinkler will activate triggered by heat from the fire. For instance, a fire in a bedroom will only activate the sprinkler(s) in that room. Cooking fumes and smoke from cigarettes will not activate the sprinkler system.

Usually, individual sprinkler heads are unobtrusive and fitted flush to the ceiling or wall: they look similar to large drawing pin heads, about 80mm in diameter. Tamper-proof, they may be supplied to match the interior colour scheme.

On activation, sprinklers discharge a calculated, relatively small amount of water from the nearest sprinkler head. This is in a spray pattern designed to damp down the fire and control its growth. Usually this will be sufficient to extinguish the flames thus minimising smoke and fire damage: controlling the fire at this stage greatly reduces the damage caused by Fire Service action which would, typically, use 10-20 times as much water.

The odds against an accidental discharge by virtue of manufacturing defect is 1 in 14 million.

#### P21-017 Kent Street Baths



## OPERATING, CLEANING AND MAINTENANCE

## Do's and Don'ts of BLUEFLOW® Sprinkler Systems

Do		Don't	
~	Keep the water & electricity supply turned on.	X	Turn off the system.
~	Be aware of the location of the stop taps.	X	Tamper with the sprinkler heads.
~	If there is a power failure for more than 24 hours, contact your electricity supplier.	x	Paint, seal or wallpaper over the sprinkler heads or cover plates.
~	Ensure that no part of the sprinkler system is subject to extremes of temperature (no less than 5° Celsius and no greater than 38° Celsius).	X	Tamper with the alarm panel or sounders (where applicable).
~	Ensure the system is inspected annually by authorised personnel.	X	Make changes to the property layout without consulting the system designer, as these may affect the coverage of the sprinkler system.
~	Keep the valve controls accessible for future inspection visits.	X	Allow unauthorised personnel to make changes to the sprinklers, water supply or valve set.

What to do in the event of Activation

- Evacuate according to your management procedures.
- Call the Fire Service.
- Leave the system running even though it might look like the fire is out.
- Wait until the Fire Service arrives. They will shut down the system.
- Call the installation or maintenance company to re-commission the system.

## SYSTEMS:

**Smoke Vent System** 

Ref: T66         Issue: 1         Date: November 2022         Page 28 of 55	
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## P21-017 Kent Street Baths

Ref: T66 Issue: 1 Date: November 2022 Rage 20 of 55	
Ref: T66         Issue: 1         Date: November 2022         Page 29 of 55	

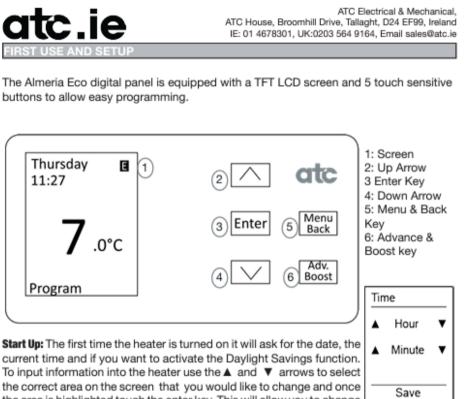


#### **Occupant Information** 8.

## Your working environment

In order to achieve a good working environment, it is important that you understand how to control the building services in your space.

## Heating:



the area is highlighted touch the enter key. This will allow you to change the data, once the correct information is showing touch enter to save.

Daylight Savings (DST Mode): The daylight savings feature will automatically adjust the time of your heater each year on the last Sunday in March and October. The user will be asked to check if they want this feature on or off when the heater is first turned on. It can

Wednesday 14:26	also be changed from the time menu. When Daylight Savings is active there is an S (S) shown on the		Save	
14.20	Screen beside the weekday.	Day	light Sa	ving
<b>21</b> .₅∘c	Manual Mode: On <i>first start up</i> after the date and time are set the heater will default into manual mode. The			
Manual	screen will show the current set temperature and manual at the bottom of the screen. The temperature can be adjusted directly with the ▲ and ▼ keys.	^	On	۲

#### P21-017 Kent Street Baths

#### Prepared by Winvic

Ref: T66	Issue: 1	Date: November 2022	Page <b>30</b> of <b>55</b>

Date

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Year

Month

Day

Save

V

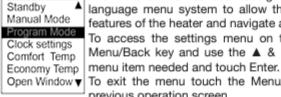


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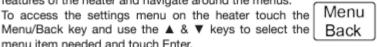
ATC Electrical & Mechanical IE: 01 4678301, UK:0203 564 9164, Email sales@atc.ie

#### Settings Menu Settings Menu

The Almeria Eco has been designed with an easy to ready English language menu system to allow the user to guickly understand the features of the heater and navigate around the menus.



# To access the settings menu on the heater touch the



Open Window v To exit the menu touch the Menu/Back key again to return to the previous operation screen

#### Standby Mode

Standby/

Manual

Adv.Boost 1x

¥

Boost For

1 hour

۷

Boost For 2 hours

The Almeria Eco heater features a standby mode which will set the heater in a low power usage mode and stop all heating. To enable standby select it from the settings menu and touch enter. Once standby is activated the heater will immediately cancel any heating programs and turn the screen off.

#### **Boost modes**

There are 3 boost modes in the Almeria Eco heater; these correspond to the 3 operating modes, Standby, Manual and Program.

In both Standby and Manual mode you can boost the heater to the comfort setting for a period of 1 or 2 hours.

To activate the boost, touch the Advance/Boost key. The heater will boost to comfort temperature for a period of 1 hour and the screen will show "Boost 1h", if you touch the key again it will boost for 2 hours showing "Boost 2h".



If you touch Adv. Boost a third time then the feature will deactivate and Adv.Boost 1x the heater will return to the previous mode of operation. If the heater was in standby, it will return to stand by with the elements turned off.

#### Advance Boost



When running in program mode, touching the Advance/ Boost key will activate the next programmed heating period and show "Advance" on the screen, a 2nd touch activates 1hour boost, 3 times activates 2-hour boost and 4 times returns the heater back to program mode.



In all boost modes the temperature can be directly adjusted with the ▲ and ▼ keys.

Note: Program advance can be used to turn the heater on or off depending on the current operation of the heater.

#### -8-

#### P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>31</b> of <b>55</b>





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#### **Temperature Set-points:**

0	Comfort Setting	There are two adjustable temperature settings that can be individually set. These set points are used for	Eco Setting
[		the "on" and "off" settings for the heater.	
	21.₅°c ▼	The Comfort setting is used for the room temperature that you want to maintain when the heater is $\underline{on}$ .	7. ₅∘c ▼
-	Save	The Economy setting is for when the heater is off.	Save

The Factory Default Setting for Comfort is 21°C and for Economy is 7°C, both of these settings are reset to the factory default when you reset the heater.

To indicate which temperature setting is active when the heater is in program run mode there is either a C (C) or an E (E) shown beside the Weekday .

#### **Heating Indicator:**

In any of the operation modes the Almeria Eco heater will display the indicator shown on the left on the bottom of the display to indicate that the elements are turned on.

Program Menu         The Almeria Eco heater is equipped with a 24 hour 7 day time with 4 time periods per day. Each time period can be programme an hour and minute time setting.			
Copy Program	Each entered setting is for comfort temperature, time periods outside of the set times are maintained at the	Wednesday	
View Program	economy setting.	14:20	
Program Run	, , , , , , , , , , , , , , , , , , , ,		
	The Program menu has 4 settings, Set Program, Copy Program, View Program and Program Run.	21.₅°c	

Program To enter a program into the Almeria Eco heater bring up the settings menu from any of the operation screens, select Program menu and touch enter.

Program Day ?	When in the Program menu select Set Program and touch enter.
▲	The Almeria Eco heater will ask the user to select the day that they want to program, use the ▲ & ▼ arrows to select the day and touch enter,
Wednesday	this will bring up the blank programming screen.
•	

-9-

#### P21-017 Kent Street Baths

Ref: T66         Issue: 1         Date: November 2022         Page 32 of 55
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# atcelec.co.uk ATC House, Broomhill Drive, Tallaght, D24 EF99, Ireland IE: 01 4678301, UK:0203 564 9164, Email sales@atc.ie

an be individually selected and set. Select the first

Wednes	sday	, touch enter and use the ▲ & ▼ to set an hour and		
On	Off	save, move to the minutes and set your required time.		
:	:	When you move to the off time and select Enter, the he	eater will	default
;	:	to the following minute after the previous on time. E.g. If you had		
:	:	entered 07:00, the off time automatically changes to 07:01; it is not possible to set an off time prior to the	Wednes	day
:		current start time.	On	Off
'	-	The user can set up to 4 on and off times per day:	07:00	08:00

The user can set up to 4 on and off times per day; if a lesser number of periods is required then the user can skip the remaining "- -" and select Save at the bottom of the screen. The minimum number of periods required to set a program is one on period

;	07:00	08:00
;	09:14	12:27
	15:00	17:00
	19:00	23:50

and one off period. In order to run a program that you have saved return to the program

menu and highlight the "Program Run" option and touch Enter to select. The heater will return to the main program run screen and show the current set point, program and if the Almeria Eco is heating or not

Copy Day ?
▲
Wednesday
•

#### **Copying a Program**

Once you have a program stored on a particular day, that program can be copied from that day to any other day or group of days by selecting "Copy Program" from the Program menu and choosing the day that has the saved program and touching enter.

Once you have selected the day you want to copy from, the screen will change to show the days that you can copy to. Select the individual day or a

number of days to copy the program to.

In the figure to the right the program shown above is copied to Monday, Tuesday and Friday. To save the copied days select Copy at the bottom of the screen and touch Enter to save.

e monday
Tuesday
o Thursday
Friday
<ul> <li>Saturday</li> </ul>
Sunday
Сору

Wednesday

Monday

#### View Program

The View Program menu is very similar to entering a program however it only allows you to see what you have entered; it doesn't allow any changes to be made the program itself.

To see your saved program, select View Program from the program menu, touch enter and then select the day you wish to review and touch enter.

The currently saved program will then be shown on the screen To exit the review, touch Menu/Back until you return to the operation screen.



-10-

#### P21-017 Kent Street Baths

Ref: T66

Issue: 1 Date: November 2022 Page 33 of
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	atc.	ATC Electrical & Mechanical, ATC House, Broomhill Drive, Tallaght, D24 EF99, Ireland IE: 01 4678301, UK:0203 564 9164, Email sales@atc.ie
C	KEY LOCK	
	Wednesday 14:26	The Almeria Eco heater has a built in lock screen to prevent any accidental changes to the heater. The Key-lock is activated by holding the ▲ & ▼ keys down for 5 seconds. When the heater is locked the Key-lock screen with a
	1 LOCKED	padlock shows whenever a key is touched. The heater is unlocked in the same way by holding the ▲ & ▼ keys down for 5 seconds
0	PEN WINDOV	/ DETECTION
	Wednesday 14:26	The Almeria Eco Heater has an open window feature to conserve energy if there is a sudden temperature drop caused by opening a window in the room and the heating is on. The open window feature can be turned on or off in the settings menu.
	21.5°C Program	If the heater detects a drop of 4 degrees in a short period of time, it will turn off the heating elements and display an icon of an open window in the bottom of the screen. (See right for example)

The heating can be brought back on by touching the enter button after the open window function has activated. If the open window function has activated and the heater has been running in program mode, when the next programmed heating time period begins the open window mode will be reset.

SOUND	
The Almeria Eco pa	nel heater will beep each time a key is touched.
Enter & Adv. Boost	To turn to turn this sound off touch Enter and Adv. Boost at the same time. Each time the buttons are touched together will turn the sound on or off.

#### FACTORY RESET

Occasionally it may be necessary to reset the Almeria Eco heater, for example if you want to clear out the program completely and start from the beginning.

To complete this process touch the Menu/Back button, select factory reset from the menu and touch enter. The Factory reset screen will appear (Shown right). As this process completely removes any user information you will be asked to confirm the reset and then confirm a second time.



Once you press Enter a second time the heater will remove all user data and return to the initial time, date and DST menu. Please note, this process cannot be undone.

-11-

## P21-017 Kent Street Baths

	Ref: T66	Issue: 1	Date: November 2022	Page <b>34</b> of <b>55</b>
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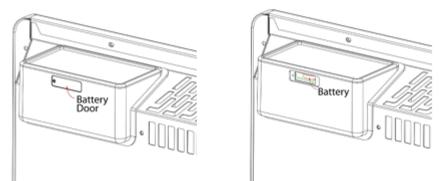
**T66** 

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The Almeria Eco panel heaters have a replaceable battery to store the program and time when the heater is powered off.

Over time and with use the battery will discharge and eventually require replacement. To replace the battery, the heater should be powered off and then removed from the wall.

On the back of the control box is a battery door (See below), remove the door with a small screwdriver and the coin cell battery is able to be removed. Slide the battery out of the heater and replace with a new Lithium CR2032 coin cell. Replace the Battery door and Reinstall the heater on the wall.



Please note: Removing the battery when the low battery symbol shows and replacing it within 3 minutes of removal will keep the time and program, after 3 minutes the time date and program will be lost.

#### MAINTENANCE

The Almeria Eco Electric Panel heaters contain no user serviceable parts and therefore require very little maintenance. Ensure that there is no excessive build-up of dust/dirt on the heater element as this can cause overheating and premature element failure.

### IMPORTANT

Failure to keep the Almeria Eco heater clean may result in dust becoming burnt and depositing on the wall above the heater in the form of dark streaks or patches. This type of marking is expressly due to failure to keep the heater and surrounding area clean. ATC take no responsibility for any such damage caused

To clean the outside of the appliance, wipe off dirt with a damp cloth.

Do not use any aggressive cleaning agents. Do not immerse the heater in water or any other liquids.

#### -12-

### P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>35</b> of <b>55</b>



### ATC Electrical & Mechanical, ATC House, Broomhill Drive, Tallaght, D24 EF99, Ireland IE: 01 4678301, UK:0203 564 9164, Email sales@atc.ie ATC Almeria Eco Landlord Mode Instructions (Runback)

The DPH Eco Heater comes with a runback mode for use when the heater will be installed in areas where restricted end user control is required.

Runback Mode allows the user to set up the heater with limited controls to conserve energy.

The heater will only work using the parameters set on installation, working in a similar fashion to a boost function.

Once set up the Almeria Eco Heater can then be code locked and only a person with access to the code can edit the settings. This is an ideal setting for Landlords who wish to guarantee efficient use of the heaters.

When Runback mode is active it allows the end user to set the radiator to run for a specific preset amount of time and temperature.

It is also possible to set a maximum temperature (Max Temp) above the Runback setting to allow the end user to increase the temperature within the limits allowed; or to setup a lower temperature (Setback) to prevent the room falling below a certain limit.

Runback mode is activated by touching and holding the Enter and Menu/Back keys together until the screen asks for a code.

(The end user will have no access to the runback settings without the code.)

### ENTERING RUNBACK MODE SETTINGS

Runback Lock	Input 0000 and touch Enter to access the menu.
Enter Code :	The first time entering runback mode it is strongly recommended that an alternative code to the manufacturer default of 0000 be saved.
ок	To change the password, select change code from the menu, input the current password and touch enter. Select a new desired code
	and touch enter again. Finally enter the new code a second time as confirmation. If the two codes entered are different, the heater will



# Please Note: It is <u>not possible</u> to reset the heater if you forget your password.

-13-

reject the change and revert to the previous code.

### P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>36</b> of <b>55</b>



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ATC Electrical & Mechanical,

for the Durch and	for the Runback operation is shown:						
for the Runback	c operation is snown:	Change Code					
		Max Duration					
Change code	= Allows the access code to be customised.	Max Temp					
	(see above)	Runback Temp					
Max Duration	= Setting the time that the heater runs for when in	Runback Enable					
	Runback heating mode.	Setback Temp					
Max Temp	= Maximum room temperature that the end user will	Setback Enable					
	be able set.						
Runback temp	= Temperature that the heater starts at when the end u	user activates					
	the Runback heat mode.						
Runback enable	e= Menu to turn runback mode on or off.						
Setback temp	= Lower temperature that the heater will maintain whe	n it is "off"					

On entering the correct password, the main screen with all the options Runback Lock

i.e. when it is not in the Runback heat mode.

Setback enable = Setback mode on or off.

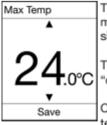
### MAX DURATION MENU

The runback mode allows a maximum operating time of 480 minutes (8 hours), set in the following increments:
$0 \rightarrow 30 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow 240 \rightarrow 360 \rightarrow 480 \rightarrow 0$
This setting determines how long the heater will run for when the user starts the heating cycle.
 To set the Max Duration, use the $\blacktriangle$ and $\blacktriangledown$ keys to select the time and then touch enter/back to save the setting required.

When the heating is set, the user can choose any time setting up to the limit set in this menu, subsequent activation of the heating will start at the same time as set previously.

E.G.: Max Duration is set to 120min, heating requested for 90mins, the next time the heating is requested it will start at 90 min.

### TEMPERATURE SET POINTS



There are three temperature settings that can be set in Runback mode. They have been designed to allow various different operation situations.

These temperature settings can be broadly characterized by "on", "off" and "adjustment" settings.

ON = Runback temp, this is the set point used to choose the temperature the heater comes on each time it is activated.

-14-

#### P21-017 Kent Street Baths

Ref: T66Issue: 1Date: November 2022Page 37 of 55
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atc.i	ATC Electrical & Mechanical, ATC House, Broomhill Drive, Tallaght, D24 EF99, Ireland IE: 01 4678301, UK:0203 564 9164, Email sales@atc.ie
Runback Temp	OFF = Setback temp, this set point will be used to set a temperature for when the heating is not required by the user, it will prevent the temperature falling below the value set. It is used to maintain the "off setting".
2 <b>1</b> .₀c	Setback can be turned off, in this case, when the heater is not activated the temperature will fall to the minimum allowed by the heater (5°C).
Save	ADJUSTMENT = Max Temp, this setting allows a higher set point than runback to be set allowing the end user to change the temperature
Setback Temp	above the "ON" value. This gives the user a limited degree of control. Max temp also allows the heat to be limited to the same value as runback. When Max temp is set to the same value as Runback, the
Save	user will only be able to adjust the temperature down from the "ON" value. To adjust any of the set points, enter the appropriate menu and select the desired temperature with the ▲ and ▼ keys, once the required temperature is shown, touch enter to exit and save the value.

### ACTIVATING RUNBACK MODE Runback In order to activate the Runback mode, enter the "Runback Enable" menu, select Enable and touch Enter. Setback - if required- is also activated in the same way. Setback Enable To exit runback mode and enable ordinary heater operation, select disable in the Runback Enable menu. Enable NOTE: In order for Runback mode to engage Model to engage

correctly, you must touch "Menu/Back" until see either the Runback or Setback Operation screens are shown. [P in upper right corner]

USING THE HE	AT	ER IN RUNBACK MODE		
Runback	Ρ	When the heater is in operation mode it will show		Ρ
120 minutes		a "P" in the upper right corner of the screen, to activate the heating touch "Enter" to choose a time		
21		setting that the heater should be active for.	16	
<b>∠ 1</b> .0°	С	Depending on the settings chosen during set up the temperature can be adjusted up or down with	I <b>U</b> .0	۴C
3	<u>}}}</u>	the ▲ and ▼ keys.		

Once the heater is functioning in the Runback mode, the menu can be accessed with the "Menu/Back" key and then entering the correct code.

NOTE: The "Adv/Boost" key has no function and does not operate in Runback Mode.

-15-

### Cooling:

### Ventilation:

### P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>38</b> of <b>55</b>



Ref: 166 Issue: 1 Date: November 2022 Page <b>39</b> of <b>55</b>	Page <b>39</b> of <b>55</b>	Date: November 2022	



### Simple energy 'dos and don'ts'

- Avoid blocking electric panel heaters or ventilation grilles with furniture and books as this will result in a lack of heating/ventilation.
- Set thermostats to the required temperature then leave them alone. Do not use them as ON/OFF switches.
- Do not overheat your space as these increases running costs and causes extra emissions of CO<sub>2</sub> into the external atmosphere, contributing to global warming.
- Only switch the lights ON as and when necessary as they result in significant emissions of CO<sub>2</sub> into the external atmosphere, contributing to global warming.
- Shut windows at night for security purposes and to prevent heat loss that could make your space cold when you come in the next day.
- Switch off all manually controlled fans and equipment when not in use; designate a person to ensure this is carried out.
- Ensure that P.C.'s, printers etc. are not left on unnecessarily and have energy saving features enabled as this will prevent your space from overheating and save energy, thereby reducing CO<sub>2</sub> emissions to the external atmosphere.



# 9. Metering, Monitoring and Targeting Strategy

### **Metering schedule**

The following provides a list of meters and design estimates of the likely end use consumptions. See Action Energy General Information Leaflet GIL 65: *Metering energy use in new non-domestic buildings*, for an example, including how to arrive at a good metering schedule. A copy is provided on the CD-ROM associated with CIBSE TM31 and printed copies are available from (<u>www.actionenergy.org.uk</u>). CIBSE TM22 also provides a means of assessing energy use in buildings.

Total esti	imated incor	ning fuel		Electric Other:	city: kHz/yr : Litres			
	Energy		M	eters	Ме	thod	Meter le	ocation
Type of incoming energy	Main end- use	Estimate d end-use consum ption (kHz/yr.)	Meter no./cod e	End use/ area/syste m/ circuit or tenancy to be measured	Measurem ent method and calculation where appropriate	through each meter	List of meters	Location
Gas								
Water								
Water								
Water								
Water								
Water								
Water								
Electric	Block A Main Landlord Supply							Main Panel A Block A1 LGF Switch Room 1
Electric	Block A Mechanica I							Main Panel A Block A1 LGF Switch Room 1
Electric	Block A Lower Ground Floor Lighting & Power Level 00							Block A1 LGF LV Switch Room
Electric	Block A Lighting & Power (level 00- 02)							Block A1 Level 01 Riser Cupboard
Electric	Block A Lighting & Power (level 03-							Block A1 Level 04 Riser Cupboard

### P21-017 Kent Street Baths

	Ref: T66	Issue: 1	Date: November 2022	Page <b>41</b> of <b>55</b>
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	06)			
	,		 	
Electric	Block A Lighting & Power			Block A1 Level 07
Electric	(level 07- 10)			Riser Cupboard
	Block A Lighting &			Block A1
Electric	Power (level 11-			Level 12 Riser Cupboard
	14)			Cupboard
	Block A Lighting &			Block A1 Level 15
Electric	Power (level 15-			Riser
	18)			Cupboard
	Block A A1			Main Panel A Block A1
Electric	Mechanica I AOV Fan			LGF Switch Room 1
	Block A			Main Panel A
Electric	A2 Mechanica			Block A1 LGF Switch
	I AOV Fan			Room 1
	Block A Building			Main Panel A
Electric	Cold			Block A1 LGF Switch
	Water Service			Room 1
	Block A			Main Panel A Block A1
Electric	Sprinkler			LGF Switch
	System			Room 1
Electric	Block A			Main Panel A Block A1
Electric	Wet Riser			LGF Switch Room 1
	Block A			Main Panel A
Electric	Fire Fighting			Block A1 LGF Switch
	Lift			Room 1
	Block A			Main Panel A Block A1
Electric	General Lift			LGF Switch
				Room 1 Main Panel A
Electric	Block A General			Block A1
	Lift			LGF Switch Room 1
	Disch			Main Panel A
Electric	Block A Solar PV			Block A1 LGF Switch
				Room 1
	Comme			Main Panel A Block A1
Electric	Comms			LGF Switch
				Room 1

Ref: T66	ls	ssue: 1	Date: November 2022	Page <b>42</b> of <b>55</b>



Electric	Block A Fire Fighting Stair Lighting				Main Panel A Block A1 LGF Switch Room 1
Electric	Block A Life Safety Landlord Supply				Secondary Main Panel A GF Switch Room 2
Electric	Block B Main Landlord Supply				Main Panel B Block B1 LGF Switch Room 1
Electric	Block B Mechanica I				Main Panel B Block B1 LGF Switch Room 1
	Block B Lower Ground Floor Lighting & Power				Main Panel B Block B1 LV Switch Room
	Block B Lighting & Power Level 00- 02				Block B1 Level 01 Riser Cupboard
	Block B Lighting & Power Level 03- 05				Block B1 Level 03 Riser Cupboard
	Block B Lighting & Power Level 06- 09				Block B1 Level 06 Riser Cupboard
	Block B Comms				Main Panel B Block B1 LV Switch Room
	Block B EV Charging				Main Panel B Block B1 LV Switch Room
	Block B1 Mechanica I AOV				Main Panel B Block B1 LV Switch Room
	Block B Solar PV				Main Panel B Block B1 LV Switch Room
	Block Building Cold Water Service				Main Panel B Block B1 LV Switch Room

Ref: T66	loouo: 1	Data: November 2022	Dago 12 of 55
Rel. 100	ISSUE. I	Date: November 2022	Page 43 01 33
		•	



	Block B Sprinkler				Main Panel B Block B1 LV
	System				Switch Room
	Car Park Smoke				Main Panel B Block B1 LV
	Extract				Switch Room
	Block B Fire				Main Panel B
	Fighting				Block B1 LV Switch Room
	Block B				Main Panel B
	General Lift				Block B1 LV Switch Room
	Block B1 Fire				Main Panel B
	Fighting				Block B1 LV
	Stair Lighting				Switch Room
	Podium				Main Panel B
	Lighting				Block B1 LV Switch Room
	Block B2				Main Panel B
	Mechanica I AOV				Block B1 LV Switch Room
	Block B1-				Main Panel B
	00 Mechanica				Block B1 LV
	IAOV				Switch Room
	Block B Life Safety				Secondary Main Panel B
Electric	Landlord				GF Switch
	Supply				Room 2
	Block C				Main Panel C
Electric	Main				Block C
	Landlord Supply				LGF Switch Room 1
	Block C				Main Panel C
Electric	Mechanica				Block C LGF Switch
	I				Room 1
	Block C				
Ele etrie	Lower Ground				LGF Switch
Electric	Floor				Room 1
	Lighting & Power				
	Block C				Block C,
Electric	Lighting & Power				Level 00
Liootilo	level 00-				Riser Cupboard
	02 Block C				-
Electric	Lighting &				Block C, Level 03
Liectric	Power				Riser Curboard
	level 04-				Cupboard

Ref: T66	Issue: 1	Date: November 2022	Page <b>44</b> of <b>55</b>



	06				
Electric	Block C – Mechanica I				Main Panel C Block C LGF Switch Room 1
Electric	Block C – Solar PV				Main Panel C Block C LGF Switch Room 1
Electric	Block C – Building Cold Water Service				Main Panel C Block C LGF Switch Room 1
Electric	Block C – Sprinkler System				Main Panel C Block C LGF Switch Room 1
Electric	Block C – Fire Fighting Lift				Main Panel C Block C LGF Switch Room 1
Electric	Block C – General Lift				Main Panel C Block C LGF Switch Room 1
Electric	Block C – Comms				Main Panel C Block C LGF Switch Room 1
Electric	Block C – Fire Fighting Stair Lighting				Main Panel C Block C LGF Switch Room 1
Electric	Block C Life Safety Landlord Supply				Secondary Main Panel C GF Switch Room 2
Electric	Block D Main Landlord Supply				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Mechanica I				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Lighting & Power LGF		 		Main Panel D Block D LGF Switch Room 1
Electric	Block D – Lighting & Power Level 00-				Block D Level 00 Riser

P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>45</b> of <b>55</b>



	02				
Electric	Block D – Lighting & Power Level 03- 06				Block D Level 03 Riser
Electric	Block D – Mechanica I AOV				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Solar PV				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Building Cold Water Supply				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Sprinkler System				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Fire Fighting Lift				Main Panel D Block D LGF Switch Room 1
Electric	Block D – General Lift				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Comms				Main Panel D Block D LGF Switch Room 1
Electric	Block D – Fire Fighting Stair Lighting				Main Panel D Block D LGF Switch Room 1
Electric	Block D Life Safety Landlord Supply				Secondary Main Panel D GF Switch Room 2

Each apartment benefits from its own electrical supply which is individual metered from within the apartment. The meter has been supplied and installed by a regional energy provider who will be responsible for billing each electrical supply.

### P21-017 Kent Street Baths

Ref: T66	Issue: 1	Date: November 2022	Page <b>46</b> of <b>55</b>
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## **10. Building Performance Records**

(Not more than three pages)

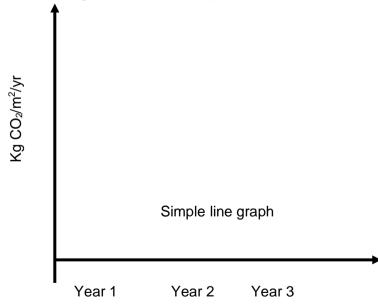
### Overall annual energy performance

Summary of overall annual electricity, fossil fuel consumption and CO<sub>2</sub> against simple benchmarks. Examples of these calculations and tables are shown in Good Practice Guide GPG 348: *Building logbooks – a user's guide*. A copy is included on the CD-ROM associated with CIBSE TM31; printed copies are available from (www.energyaction.org.uk).

Building en	Building energy performance for period from [date] to [date]										
Based on a treated floor area of 4027 m <sup>2</sup>											
Fuel	Quantity	<b>(A)</b> (kW <sup>.</sup> h)	(B) CO₂ ratio	<b>(C)</b> (Kg CO <sub>2</sub> )	(D) Actual (Kg CO <sub>2</sub> /m <sup>2</sup> )	(E) Design estimates (Kg CO <sub>2</sub> /m <sup>2</sup> )	(F) Good practice benchmark (Kg CO <sub>2</sub> /m <sup>2</sup> )				
Gas											
Electricity											
TOTAL											

Ensure that actual consumption figures do not include estimated bills and ensure they relate to a full exact 12month period. (If not then record actual and adjust by number of days missing/extra). Use the total gross floor area shown in section 5. Multiply column (A) by column (B) to get (C) then divide by treated total building floor area to get (D) for comparison with benchmarks in columns (E) and (F). One overall performance indicator can be established by totalling column (D). Avoid adding column (A) as the fuels have different costs and CO<sub>2</sub> factors.

### **Historical Building Performance Graph**



CIBSE TM22: *Energy assessment and reporting methodology* provides software to help assess building energy performance using either a simple or a detailed approach. This includes benchmarks for a variety of buildings. A wider range of benchmarks is available in the series of Energy Consumption Guides produced by Action Energy

Ref: T66 Issue: 1 Date: November 2022 Page 47 of 55
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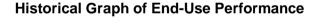
(www.actionenergy.org.uk), e.g. ECG19: Energy use in offices, and CIBSE Guide F: Energy efficiency in buildings

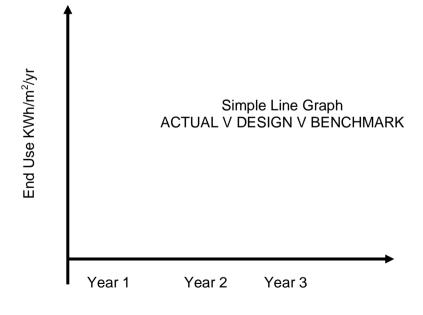
### Energy end use comparison

Annual summary of actual metered consumption per square metre and the design team's estimates versus benchmarks broken down by main end-uses. Examples of these calculations and tables are shown in Good Practice Guide GPG 348: *Building logbooks – a user's guide*. A copy is included on the CD-ROM associated with CIBSE TM31; printed copies are available from (www.energyaction.org.uk).

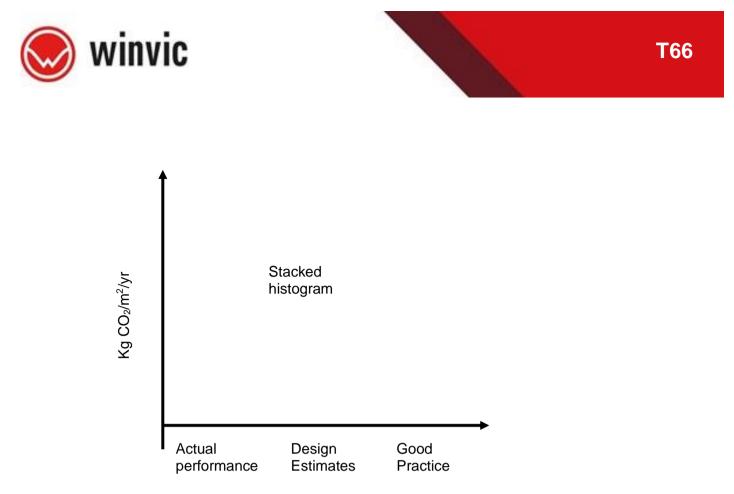
Building ene	ergy performance	for period from [d	ate] to [date]		
Based on a	treated floor area	of 38015 m <sup>2</sup>			
Fuel type	Main end use	Actual Metered incoming consumption ((Kw·h)/yr)	Actual Sub-metered main end use energy consumption ((Kw <sup>.</sup> h/m <sup>2</sup> )/yr)	Design estimates Main end use energy consumption (Kw·h/yr	Good practice benchmark Main end use energy consumption ((Kw·h/yr)
Electricity	Incoming				
	Lighting				
	Machines				
	General Power				
	Pumps & Fans				
	AC Heat & Cool				

Keep the fuels separate as they have different costs and CO<sub>2</sub> emissions





### P21-017 Kent Street Baths



### References

- a. *Energy efficiency in offices* Energy Consumption Guide ECG19 (Action Energy) (2000) (<u>www.actionenergy.org.uk</u>)
- (2) Energy Assessment and Reporting Methodology Office Assessment Method CIBSE TM22 (London: Chartered Institution of Building Services Engineers) (2003)
- (3) Building logbooks a user's guide GPG 348 (Action Energy) (2000) (www.actionenergy.org.uk)

### P21-017 Kent Street Baths

### Prepared by Winvic

Ref: T66	Issue: 1	Date: November 2022	Page <b>49</b> of <b>55</b>





### 11. System of Maintenance

### Emergency maintenance action

**Emergency Contact No. 1** 

**Emergency Contact No. 2** 

### Maintenance overview

The building is managed by a specialist maintenance contractor and they are responsible in ensuring the correct periodic and preventative maintenance regimes are followed to ensure correct plant and system operation.

### **Maintenance review**

Review period  Signed:	<ol> <li>Are you reasonably satisfied with the maintenance on this system? (Yes/No)</li> </ol>	2. Is this system capable of working in all the required modes? (Yes/No)	<ol> <li>If not, is this due to poor maintenance? (Yes/No)</li> </ol>	Comments/problems? e.g. maintenance not carried out (give reason) Indicate any major changes to the general arrangement for maintenance including any changes in maintenance regimes or contracts
Above Ground Drainage				
Electric Panel Heaters				
Air Conditioning Unit				
External Condenser Unit				
Dampers (VCD's and Fire)				
Air Terminals & Louvres				
Water Management Procedures				
Break Tank & Booster Set				
Cat 5 Break Tank & Booster Set				
Hot Water Heaters				

### P21-017 Kent Street Baths

Ref: T66         Issue: 1         Date: November 2022         Page 50 of 55
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Energy Monitoring Control System inc Water Leak Detection System		
Gas Installation		
Electrical Installation		
Fire Alarm		
Emergency Lighting		
EV Chargers		
Lightning Protection		
Lifts		

### Maintenance/plant failures

Facilities manager to insert a summary of any major plant failures and how these relate to the maintenance regimes or contracts. This should describe what happened, when, why and what action was taken to overcome the problem.

### P21-017 Kent Street Baths

Ref	Issue: 1	Date: November 2022	Page <b>51</b> of <b>55</b>



### 12. Major Alterations

Any major alterations made to the building, its services, its operation or management should be logged below, e.g. boiler replacement, BMS upgrade, changes in use, new management regime etc. Each change should be signed and dated by the facilities manager alongside the other page numbers of the logbook that have been updated/added to reflect the alteration.

Description of alteration	Other logbook pages updated or added	Signed	Date

Ref: 166 Issue: 1 Date: November 2022 Page 52 of 55	Ref: T66	Issue: 1	Date: November 2022	Page <b>52</b> of <b>55</b>
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### 13. Results of In-use Investigations

### **Defects liability work**

Facilities manager to insert a summary of any major remedial work in the period between practical completion (handover) and the end of the defect's liability period

### Post occupancy evaluations

Facilities manager to insert a summary of any post occupancy evaluations, e.g. investigations of energy performance and/or occupant satisfaction.

### Surveys

Facilities manager to insert a summary of results from any maintenance, condition or energy surveys.

### P21-017 Kent Street Baths

Ref: T66         Issue: 1         Date: November 2022         Page 53 of 55
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## **Appendix: Relevant Compliance and Test Certificates**

This appendix should act as a focal point to hold copies of all relevant key certificates/test reports etc, including:

Please refer to mechanical and electrical operation and maintenance manuals Section 6 for all relevant commissioning and test results applicable to the main contract.

### P21-017 Kent Street Baths

	Ref: T66	Issue: 1	Date: November 2022	Page <b>54</b> of <b>55</b>
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