
EQUIPMENT SCHEDULES

Project:

PUTNEY PLAZA

Project No:

2590

**DOCUMENT UPDATED:
BY:**

July-14
AF/WOR

**Status
Revision**

Construction Issue
B

SYNERGY CONSULTING ENGINEERS
 1 Canal Side Studios
 8-14 St Pancras Way
 London
 NW1 0QG

Date:	July-14
Status:	Construction Issue
Revision:	B
Project No.:	2590

Project: PUTNEY PLAZA

INDEX OF SCHEDULES

REF. No.	Equipment	Manufacturer	Contact Details
1	RADIATORS	STELRAD	01482 498494
2	TOWEL RAIL RADIATOR	RADOX/QUEBIS	01255 782819
3	EXTRACT GRILLE	GILBERTS/SCHAKO/HALTON	01253 766911 / 07463 980114 / 01376 507000
5	EXTRACT FAN	NUAIRE	08705 121 444
6	CONSTANT VOLUME DAMPERS	NUAIRE	08705 121 444
7	AIR TO WATER HEAT PUMP	DIMPLEX	0844 879 358
8	THERMAL STORE	AKVATERM	00 358 6 824 4200
9	BOOSTER SET	ALLAN AQUA SYSTEMS	01582 574 048
10	BREAK TANKS	ALLAN AQUA SYSTEMS	01582 574 048
11	WATER CONDITIONING UNIT	HYDROTECH	01582 574 048
12	ATTENUATORS	ALLAWAY ACOUSTICS	01992 550825
13	CONDENSING BOILER	VISSMAN	01952 675 040
14	CONTROLS	TBC / HONEYWELL	TBC / 08457 678999
15	EXPANSION VESSEL	FLAMCO LIMITED	01744 744 744
16	DOSING POT	BSS GROUP	0207 531 3900
17	FILL SYSTEM/PRESSURISATION KIT	MIKROFILL	03452 606020
18	PUMPS	GRUNDFOS	01525 850000
19	CHP	SAV SYSTEMS	01483 771910

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE

RADIATORS

STELRAD

REF.	LOCATION	MANUFACTURER REF.	MANUFACTURER	DIMENSIONS (H x W)	OUTPUT (W)	TEMP. DIFFERENTIAL (°C)	CONTROLS	NOTES
R01	See Block D apartment layouts	K2 Planar 140918	Stelrad	400mm x 600mm	364W	10°C	Thermostatic Radiator Valve and	Flow Temp - 55oC and Return Temp - 45oC
R02	See Block D apartment layouts	K2 Planar 140919	Stelrad	400mm x 800mm	485W	10°C		Flow Temp - 55oC and Return Temp - 45oC

Date:	July-14
Status:	Construction Issue
Revision:	B
Project No.:	2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE								TOWEL RAIL RADIATOR
								RADOX/QUEBIS
REFERENCE NO.	LOCATION	MOUNTING	MANUFACTURER	MANUFACTURER REF.	MODEL OUTPUT (W)	SIZE: HxWxD (mm)	FINISH	NOTES
TR01	Bathrooms / Ensuites	Wall	Radox / Quebis	RXQU-1100500-AN	702 / 300W	1100mm x 500mm x 470mm	Anthracite	With Thermostatic Temperature Control. Location as shown on Architect drawings.

Date: July-14
 Status: Construction Issue
 Revision: B
 Project No.: 2590

Project: **PUTNEY PLAZA**

EQUIPMENT SCHEDULE

EXTRACT GRILLE

GILBERTS/SCHAKO/HALTON

Ref	Location	Size (mm)	Air Volume (l/s)	Manufacturer & Type	Finish	Fixing	Notes
EG01	Bathrooms	150	10 to 40	Gilberts - GX 150	White	Ceiling mounted	----
EG02	Kitchen / Bathroom	40 x 500	10 to 40	Schako DSX - XXL - W - S1	White	Wall mounted	Air linear grille with fixed horizontal profiled blades
EG03	WM Cupboard	100	10 to 20	Halton ULA	White	Ceiling mounted	Plenum box with 150mmØ spigot connection to be located on end of duct to connect to grille
EG04	Kitchen / Bathroom (Large apartments)	72 x 500	50 to 75	Schako DSX - XXL - W - S2	White	Wall mounted	Air linear grille with fixed horizontal profiled blades

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE

EXTRACT FAN

NUAIRE

Ref.	Location	Max. Design Extract Volume (m³/s)	Size - WxDxL (mm)	Manufacturer & Type	Fan Type	External Static Pressure (kPa)	Power Consumption (kW)	FLC (amps)	Breakout dBA @ 3m	Fixing	Notes
EF01	Block A Roof	6.355	1085 x 1155 x 1085	Nuaire_AM62ES	In-Line Centrifugal Duct Fan	350	5.88	12.80	45	Roof Mounted	Ancillaries include 2No. x AMDF6 (Quickfit double flanged flexible connector). 1No. x NAV6 (Anti-vibration mounting kit) Plus Attenuators and Controls
EF02	Block B Roof	6.725	1085 x 1155 x 1085	Nuaire_AM62ES	In-Line Centrifugal Duct Fan	350	5.05	12.80	48	Roof Mounted	Ancillaries include 2No. x AMDF6 (Quickfit double flanged flexible connector). 1No. x NAV6 (Anti-vibration mounting kit) Plus Attenuators and Controls
EF03	Block C Roof	2.776	712 x 775 x 712	Nuaire_AM44ES	In-Line Centrifugal Duct Fan	260	2.6	4.50	46	Roof Mounted	Ancillaries include 2No. x AMDF4 (Quickfit double flanged flexible connector). 1No. x NAV6 (Anti-vibration mounting kit) Plus Attenuators and Controls
EF04	Block D Roof	5.927	1085 x 1155 x 1085	Nuaire_AM62ES	In-Line Centrifugal Duct Fan	275	5.05	12.80	42	Roof Mounted	Ancillaries include 2No. x AMDF6 (Quickfit double flanged flexible connector). 1No. x NAV6 (Anti-vibration mounting kit) Plus Attenuators and Controls

Date: July-14
 Status: Construction Issue
 Revision: B
 Project No.: 2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE

CONSTANT VOLUME DAMPERS

NUAIRE

REF.	MANUFACTURER DETAILS	LOCATION	SIZE - WxDxH (mm)	Nominal Design Pressure Drop (Pa)	Extract Volume (l/s)	NOTES
CVD 01	Nuaire CVD200	As indicated on the drawings	400 x 180 x 195	90	24l/s to 124l/s	Ceiling mounted. Min. 500mm of straight rigid ducting at damper inlet. Min. 500mm of straight rigid ducting at outlet. Electrical rating: 230V - 50Hz. Sprigot connection 200Ø. Trickle and boost flowrate together with the run-on time are adjustable via relavent potentionmeters.
CVD 02	Nuaire CVD150	As indicated on the drawings	400 x 200 x 220	80	15l/s to 63l/s	Ceiling mounted. Min. 500mm of straight rigid ducting at damper inlet. Min. 500mm of straight rigid ducting at outlet. Electrical rating: 230V - 50Hz. Sprigot connection 150Ø. Trickle and boost flowrate together with the run-on time are adjustable via relavent potentionmeters.
CVD 03	Nuaire CVD125	As indicated on the drawings	400 x 230 x 275	70	10 l/s to 48l/s	Ceiling mounted. Min. 500mm of straight rigid ducting at damper inlet. Min. 500mm of straight rigid ducting at outlet. Electrical rating: 230V - 50Hz. Sprigot connection 200Ø. Trickle and boost flowrate together with the run-on time are adjustable via relavent potentionmeters.

DATE	July-14
STATUS	Construction Issue
REVISION	B
PROJECT NO.	2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE									AIR TO WATER HEAT PUMP
									DIMPLEX
REF	LOCATION	MANUFACTURER	MANUFACTURER REF.	SIZE - WxDxH (mm)	HEATING CAPACITY (kW)	AIR FLOW (m3/h)	POWER INPUT (kW)	WEIGHT (kg)	Notes
HP 01	Block A Roof	Dimplex	LA17TU	1600 x 952 x 1940	20kW at 20oC (2 compressors)	5500	4.44	436	Heat Pump to be ducted to recover heat from exhaust air
HP 02	Block B Roof	Dimplex	LA25TU	1600 x 952 x 1940	30KW at 20oC (2 compressors)	7500	5.89	510	Heat Pump to be ducted to recover heat from exhaust air
HP 03	Block C Roof	Dimplex	LA17TU	1600 x 952 x 1940	20kW at 20oC (2 compressors)	5500	4.44	436	Heat Pump to be ducted to recover heat from exhaust air
HP 04	Block D Roof	Dimplex	LA9TU	910 x 750 x 1460	10kW at 10oC	2500	2.24	208	Heat Pump to be ducted to recover heat from exhaust air

DATE	July-14
STATUS	Construction Issue
REVISION	B
PROJECT NO.	2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE **THERMAL STORE**
AKVATERM

REF	LOCATION	CAPACITY (litres)	LOCATION	MANUFACTURER	MANUFACTURER REF.	TEMP (oC)	DIMENSIONS H x W x D (mm)	WEIGHT (kg)	WORKING PRESSURE (bar)	NOTES
TS 01	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	45	1840 x 2060 x 810	490	1.5	
TS 02	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	45	1840 x 2060 x 810	490	1.5	
TS 03	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	45	1840 x 2060 x 810	490	1.5	
TS 04	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	45	1840 x 2060 x 810	490	1.5	
TS 05	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	65	1840 x 2060 x 810	490	1.5	
TS 06	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	65	1840 x 2060 x 810	490	1.5	
TS 07	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	65	1840 x 2060 x 810	490	1.5	
TS 08	Basement Mechanical Plantroom	2000	Plant room	AKVATERM	AKVANTTI 2000E	65	1840 x 2060 x 810	490	1.5	

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE	BOOSTER SET
ALLAN AQUA SYSTEMS	

REF	LOCATION	SYSTEM	UNIT TYPE	PUMP VOLUME (L/S)	PRESSURE (Bar)	Size (H x W x D)	DRY WEIGHT (KG)	PLUMBING CONNECTIONS	ELECTRICAL SUPPLY	ELECTRICAL RATING (amps)	MODEL REFERANCE	NOTES
BS01	Basement Mechanical Plantroom	Cold Water Services Booster Set	3 Pump Variable Speed Booster Set (Duty/Assist/Standby)	8.82	6.5	1250mm x 800mm x 1750mm	500	80mm	3ph / 415V	40 Amps	AA-31506-VP	80mm NP16 flexible connections. Set of rubber anti-vibration mountings. Intergrated controls.
BS02	Basement Mechanical Plantroom	CAT 5 Booster Set for irrigation and wash down	2 Pump Variable Speed Booster Set (Duty/Standby) with integrated 1000litre tank	2	3	2400mm x 1200mm x 1200mm	275	42mm	3ph / 415V	16 Amps	AA-20507-P/BT1000AB	42mm NP16 flexible connections. Set of rubber anti-vibration mountings. Intergrated controls.

Date:	July-14
Status:	Construction Issue
Revision:	B
Project No.:	2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE	BREAK TANKS
ALLAN AQUA SYSTEMS	

REF	LOCATION	MANUFACTURER/M ODEL NO.	STANDARD FLOAT VALVE	VOLUME (L)	CONNECTION SIZE (mm)	SIZE mm (L x W x D)	DRY WEIGHT (kg)	NOTES
BT01	Basement Mechanical Plantroom	Allan Aqua-Systems	50mm	14000	100mm	3650 x 2150 x 2060	1950	Top of tank or float valve housing must be at least 350mm below the ceiling height to allow access to the float valve for maintainance. Include re-circulation pumps and contents and temperature gauges.

July-14
Construction Issue
B
2590

Project: **PUTNEY PLAZA**

EQUIPMENT SCHEDULE

WATER CONDITIONING UNIT

HYDROTECH

REF	LOCATION	UNIT TYPE/REF	MAXIMUM FLOW RATE (l/s)	CASING TYPE	FINISH	CONNECTIONS	CONTROL BOX	ELECTRICAL SUPPLY	POWER (W)	NOTES
WC-01	Plant Room	UV Disinfection System / Hydropur Select 30	8	Reactor Vessel Manufactured from Gunmetal BIN1705 (G series)	Plastic casing with inspection glass	100mm (Flanged)	Yes	240V/1P/50Hz	180 Watts	Flexible connections to be provided
WC-02	Plant Room	Physical Water Conditioner/ Hydromag DN100	8	Cast Iron to DN 1691	Internally and Externally plasma coated with food grade Teflon	100mm - DN200 Type	Yes	240V/1P/50Hz	450 Watts	Flexible connections to be provided

Date: July-14
 Status: Construction Issue
 Revision: B
 Project No.: 2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE

ATTENUATORS

ALLWAY ACOUSTICS

REF.	LOCATION	SYSTEM	AIR VOLUME (L/S)	FACE VELOCITY (M/S)	PRESSURE DROP	DUCT SIZE (H x W x L)	DYNAMIC INSERTION LOSS (DB)	NOTES
ATT 01	Roof - Block A	Heat Pump discharge						
ATT 02	Roof - Block A	Extract Fan discharge						
ATT 03	Roof - Block A	Extract Fan intake						
ATT 01	Roof - Block B	Heat Pump discharge						
ATT 02	Roof - Block B	Extract Fan discharge						
ATT 03	Roof - Block B	Extract Fan intake						
ATT 01	Roof - Block C	Heat Pump discharge						
ATT 02	Roof - Block C	Extract Fan discharge						
ATT 03	Roof - Block C	Extract Fan intake						
ATT 01	Roof - Block D	Heat Pump discharge						
ATT 02	Roof - Block D	Extract Fan discharge						
ATT 03	Roof - Block D	Extract Fan intake						

Date: July-14
 Status: Construction Issue
 Revision: B
 Project No.: 2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE **CONDENSING BOILER**
VISSMAN

REF	CAPACITY (kW)	LOCATION	MANUFACTURER	MANUFACTURER REF.	DIMENSIONS Depth x Width x Height (mm)	WEIGHT (kg)	GAS CONNECTION (R, INCH)	PERMISSIBLE OPERATING PRESSURE (bar)	Total Water Capacity (l)	Notes
B01-B04	100	Plant Room	Viessmann	200-W WB2C	380 x 480 x 850	83	1	4	12.8	4 No. 3 run and 1 stand by. To be installed with sequencer and Flue dilution by A1 Flues

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE

CONTROLS

TBC / HONEYWELL

REF	LOCATION	MANUFACTURER	MANUFACTURER REF.	DIMENSIONS Depth x Width x Height (mm)	POWER SUPPLY	PERMISSIBLE OPERATING PRESSURE (bar)	No. Of Channels	Notes
PTC_00 (7-DAY PROGRAMMER)	FLAT CORRIDOR							TBC with Client
REF	LOCATION	MANUFACTURER	MANUFACTURER REF.	DIMENSIONS: Height x Width x Depth (mm)	NOMINAL FLOW RATE (l/hour)	PERMISSIBLE OPERATING PRESSURE (bar)	Max. Flow Temp. (°C)	Notes
VTL 120 (TRV/LOCKSHIELD)	RADIATOR - Block D	HONEYWELL	VTL120D-RADPLAN TRV/LS	154 x 50 x 12	200	10	90	VTL120 pack consists of both thermostatic valve and lockshield valve. 15mm and 8/10 angled and straight version available.

Date:	July-14
Status:	Construction Issue
Revision:	5
Project No.:	2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE	EXPANSION VESSEL
FLAMCO LIMITED	

REF	LOCATION	SERVICE TYPE	SERVICE TEMPERATURE RANGE (°C)	SYSTEM CONTENTS (L)	SYSTEM EXPANSION (L)	VESSEL VOLUME (L)	MAX. WORKING PRESSURE (bar)	PRE-CHARGE PRESSURE (bar)	MANUFACTURER	MANUFACTURER REF.	DIMENSIONS H (mm) X DIA (mm)	WEIGHT (kg)	ACCESSORIES	Notes
EXP01	PLANTROOM	UNDERFLOOR HEATING	45 TO 30	5610 (5230l from UFH)	234	300	10	6.5	FLAMCO	FLEXCON 300 (Order code - FCST 300 l)	1330 x 600	73.7	n/a	
EXP02	PLANTROOM	BLOCK D RADIATOR CIRCUIT	55 TO 45	642	42	110	6	4.5	FLAMCO	FLEXCON 110 (Order code - FCST 110)	784 x 484	23.8	n/a	

Date:	July-14
Status:	Construction Issue
Revision:	B
Project No.:	2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE	DOSING POT
	BSS GROUP

REF	LOCATION	SIZE (L)	MANUFACTURER	MODEL REFERENCE	DIMENSIONS (W x H x D)	WEIGHT (kg)	ACCESSORIES	Notes
DP01	PLANTROOM - UFH	35.0	BSS GROUP	BOSS - 52210017	490 X 880 X 310	16.5		
DP01	PLANTROOM - BLOCK D RADS	11.0	BSS GROUP	BOSS - 52210061	590 X 1000 X 410	40.5		

Date:	July-14
Status:	Construction Issue
Revision:	B
Project No.:	2590

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE

FILL SYSTEM/PRESSURISATION KIT

MIKROFILL

REF	LOCATION	MANUFACTURER	MANUFACTURER REF.	DIMENSIONS (W x D x H)	WEIGHT (kg)	OPERATING PRESSURE (bar)	MAX. OPERATING TEMP. (°C)	CONTROLS	Notes
FD01	PLANTROOM - UFH	MIKROFILL	MIKROFILL (DIRECT TYPE)	260 x 150 x 270	7.5	5	40	HIGH AND LOW PRESSURE ALARM	BACK FLOW FLUID PROTECTION
FD02	PLANTROOM - BLOCK D RADS	MIKROFILL	MIKROFILL (DIRECT TYPE)	260 x 150 x 270	7.5	5	40	HIGH AND LOW PRESSURE ALARM	BACK FLOW FLUID PROTECTION

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE

PUMPS

GRUNDFOS

REF	LOCATION	SYSTEM	DESIGN DUTY (l/s)	DESIGN PRESSURE (kPA)	MAX. OPERATING PRESSURE (BAR)	PUMP TYPE	SPEED CONTROL	BREAKOUT dBA @ 1m	ELECTRICAL SUPPLY (V/Ph/Hz)	POWER (kW)	FULL LOAD CURRENT (A)	MANUFACTURER	MODEL REFERENCE	DIMENSIONS W x D x H (mm)	WEIGHT (kg)	CONTROLS	ACCESSORIES	Notes
P01	PLANTROOM	HTG	2.2	120	10	CIRCULATOR	VARIABLE	<43dB	240	0.36	1.19	GRUNDFOS	MAGNA 3 D 40-100 F	400 X 220 X 254	16.3	LOCAL TEMPERATURE CONTROL	N/A	ONE PUMP IS CONSTANT OPERATION EVERY 24 HOURS THE STAND BY PUMP WILL START AND RUN FOR A SHORT PERIOD. OPERATING MODE IS SELECTED BY MEANS OF A SELECTOR SWITCH IN EACH TERMINAL BOX. IN CASE OF SENSOR FAILT, THE OPERATING PUMP WILL SWITCH TO MAX OPERATION
P01	PLANTROOM	BLOCK D - RADS	0.6	80	6	CIRCULATOR	VARIABLE	<43dB	240	0.14	1.61	GRUNDFOS	MAGNA 3 D 32-80 F	502 X 220 X 379	32.8	LOCAL TEMPERATURE CONTROL	N/A	ONE PUMP IS CONSTANT OPERATION EVERY 24 HOURS THE STAND BY PUMP WILL START AND RUN FOR A SHORT PERIOD. OPERATING MODE IS SELECTED BY MEANS OF A SELECTOR SWITCH IN EACH TERMINAL BOX. IN CASE OF SENSOR FAILT, THE OPERATING PUMP WILL SWITCH TO MAX OPERATION

Project: PUTNEY PLAZA

EQUIPMENT SCHEDULE CHP
SAV SYSTEMS

REF	LOCATION	UNIT TYPE	HEATING CAPACITY (kW)	FLOW RATE (l/s)	WATER FLOW TEMPERATURE (°C)	WATER RETURN TEMPERATURE (°C)	PRESSURE DROP (kPa)	MAX. OPERATING PRESSURE (bar)	SOUND PRESSURE LEVEL (dBA @ 1m)	POWER (kW)	STARTING CURRENT (A)	FULL LOAD CURRENT (A)	MANUFACTURER	MODEL REFERENCE	DIMENSIONS L x W x H (mm)	WEIGHT (kg)	CONTROLS	ACCESSORIES	Notes
CHP 01	PLANTROOM	HTG	17 - 30		85	75			49				SAV SYSTEMS	XRGI-15	1300 x 750 x 1250	700			