

Equipment Data Sheet Packaged Greywater Recycling Plant

Job Title:	Camden Town Hall			Job Number:	261250
Job Stage:	Stage 4	Status:	Stage 4	Made by:	AD
Revision:	00	Date:	27/09/2019	Checked by:	DH
Revision Description:					

General Information

Number Required Location System

Type

1
Greywater recyling plant B.04
Packaged greywater recycling plant (GWR/B1/01) with mains water & RW top up
Membrane bioreactor

Suggested Supplier

Model Reference Manufacturer (or equal and approved) Contact Name Telephone Number

Aqua-Recycling-Control 120B+
Aquality
Christopher James
(44) 020 8991 3725

Performance Data

Actual Capacity
Pre-treatment
Primary treatment
Secondary treatment
Tertiary treatment
Post tank booster set as
part of packaged system
Greywater nominal flow
Greywater minimum flow
Greywater peak flow

Required	Offered	_
3000		litres/day
Coarse	filtration	
Sett	ling	
Membrane	bioreactor	
UV disir	nfection	
Y		
3000		litres/day
		litres/day
3000		litres/day

Materials and Components

materiais and Compor			
Description	Packaged greywater recycling with		
Boompaon	filters and membrane bioreactor in		
	HDPE tanks		
Mains water top up required	Υ		
Mains water top up size	25	mm	
Mains water max pressure	200	kPa	
Mains water flow rate	0.23	litre/s	
Airgap type	AA		
Membrane type	MS		
Membrane location	In tank		

Water Quality Produced

Max total coliforms out
Max E. coli
Max I. enterococci
Turbidity
BOD
COD
TSS
Max. working temperature
Min. working temperature
Min. working temperature

	u		
	nil		per 100ml
	nil		per 100ml
	nil		per 100ml
	<0.5		NTU
ı	<5		mg/l
ı	<5		mg/l
ı	<600		mg/l
ı	20		°C °C
ı	10	·	°C

Tank Construction Data

Arrangement
Type of Construction
Construction Standard
Tank Material

Mounted on PE chassis
Factory manufactured HDPE
BS 8515 & BS 8525
High quality HDPE

Treatment Electrical Data

Electrical Supply
Electrical Frequency
Set Load
Starting Current
Running Current
Power Source
Normal Feed
Essential Feed

Required	Offered	_
230		V/Ø Hz
50		Hz
0.4		kW
3		Α
3		Α
Single phas	e	
١	1	
Y	/	
		-

Tank Dimensional Data

rank Dimensional Data	
Overall Length	
Overall Width	
Overall Height	
Plant footprint	
nlet Connection Size	
Outlet Connection Size	
Overflow Size	
Warning Pipe Size	
/ent Pipe Size	
Orain Outlet	L

	•
5500	mm
4000	mm
2600	mm
22	m2
100	mm
42	mm
100	mm
	-

Booster Set Electrical Data

Electrical Supply				
Electrical Frequency				
Set Load				
Starting Current				
Running Current				
Power Source				
Normal Feed				
Essential Feed				

Dala		
Required	Offered	_
400		V/Ø
50		Hz
2.2		kW
3		Α
3		Α
Three phas	е	
N	J	
Υ	1	

Control Panel Data

Overall Length
Overall Width
Overall Height
IP Rating

650	mm
570	mm
1750	mm
IP 65	



Equipment Data Sheet Packaged Greywater Recycling Plant

Job Title:	Camden Town Hall		Job Number:	261250	
Job Stage:	Stage 4	Status:	Stage 4	Made by:	AD
Revision:	00	Date:	27/09/2019	Checked by:	DH
Revision Description:					

Controls	Requ	ired	Indicators	Requ	ired
High Level Alarm Switch	Yes	No	Auto Draindown of Storage Tanl	Yes	No
Mid Level Alarm Switch		\checkmark	Gauge Pressure	\checkmark	
Low Level Alarm Switch	V		Self Test Lamp		✓
Pump 1 Start Switch	V		On Supply Lamp	\checkmark	
Pump 2 Start Switch			Test Switch Lamp	\checkmark	
Pump Panel Links	\checkmark		Individual Pump Run Lamp		
Lockable	V		Online Redox Monitoring	\checkmark	
Fully Automatic in Operation	V		Mains Water Top Up Flow Rate	\checkmark	
Touchscreen Interface	\checkmark		Greywater Produced Flow Rate	\checkmark	
Start/Stop Button	\checkmark		Storage Tank Levels	\checkmark	
Auto On/Off Switch	V		Warning Pipe Screening	V	
BMS Links					
Common Alarm Volt Free Conta	ct 🗸				



Equipment Data Sheet Packaged Greywater Recycling Plant

Job Title:	Camden Town Hall			Job Number:	261250
Job Stage:	Stage 4	Status:	Stage 4	Made by:	AD
Revision:	00	Date:	27/09/2019	Checked by:	DH
Revision Description:					

Ac	Iditional Information	Comments
1	All inputs/outputs to be wired to numbered terminals	
<u> </u>	within the control panel.	
	·	
2	All alarm volt free contacts shall be fail safe. Contacts	
	shall be normally open, closed when healthy, open	
	on alarm or loss of power.	
3	All volt free contacts to be rated at 3A inductive at	-
Ť	230 VAC.	
4	Power supply and control cables that are not part of the	
	package are to be provided by the electrical / controls	
	engineer.	
	0	
5	Greywater filter IF2 to be installed as in the packaged system	
	specified by the manufacturer.	
6	MS : manufacturer standard	
<u> </u>	ino : manarataror starradra	
7	Power supply cables that are not part of the package are to be	
	provided by the electrical subcontractor. Interconnecting	
	power supply cables between the packaged components are	
	to be provided by the manufacturer.	
8	Control cables that are not part of the package are to be	
	provided by the controls subcontractor. Interconnecting control	
	cables between the package components are to be provided	
	by the manufacturer.	
9	Interconnecting pipework and valves between components to	
Ü	be specified by manufacturer. Interconnecting pipework and	
	valves to be provided and installed as part of package.	,
10	Greywater system will include but not be limited to required	
	components listed in this datasheet.	
11	Refer to the related packaged system datasheets listed above	
	for further controls and instrumentation data, specific to the	
	individual components	
12	Where the system has touchscreen interface, then the	
12	controls and indicators listed may be displayed on this.	
	controls and indicators listed may be displayed on tills.	
13	Final equipment selected by contractor must be compliant	
	with the project design and sustainability targets.	