

**Mechanical
Technical Schedules**
(Forms Section 20 of the Specification)

BLOOM STREET
MANCHESTER

Issued For Tender

Date: 16/04/2021

Revision T1

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REVISION INFORMATION

REVISION	DATE	SECTION	DESCRIPTION
T1	16/04/2021	All	Issued for Tender

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3.20.1

Electric Heaters



Manufacturer: Solaire Heating Products Ltd

Tel: 01325 717 899

Ref No.	Serving	Model	Type	Output (W)	Dimensions (HxWxD)	Electrical supply	Features	Notes
EPH01	Corridors	Caldo CAL10	Panel Heater	1000	435x555x100	230V/1P/50Hz	Thermostat/24-7 Programmer/Wi-Fi	
EPH02	Bedrooms	Caldo CAL15	Panel Heater	1500	435x680x100	230V/1P/50Hz	Thermostat/24-7 Programmer/Wi-Fi	
EPH03	Living Rooms	Caldo CAL20	Panel Heater	2000	435x885x100	230V/1P/50Hz	Thermostat/24-7 Programmer/Wi-Fi	
ETR	Bathrooms	BRAY Straight	Towel Heater	400	1800x400x100	230V/1P/50Hz	Thermostat	

Notes:

- 1 : Units to be installed as per manufacturers recommendations.
- 2 : Contractor shall make site measurements prior to ordering.
- 3 : Colour to be confirmed by Architect.
- 4 : All heaters to be provided with manufacturer's fixing kit.

3.20.2 Cold Water Storage Tank

Manufacturer: Dewey Waters
Tel: 01934 421477

Reference : CWST 01

Type : GRP Hot Press Moulded Pre-Insulated Tank

Location : Basement Plant Room

No. of units : 1 No

Storage capacity : 7,500 Litres (nominal)

Weight : TBC

Internal Dimensions : TBC

External Dimensions : TBC

Accessories : Heavy duty covers

Manhole x 2

Stainless steel bolts under water

Internally flanged base

Externally flanged sides

Ball Valve box with standard top access (500mm high) x 2

AF Fluid Category 4 airgap

50:50 division across tank for maintenance

Base levelling steels

2" equilibrium ball valve + 12" plastic float x 2

3/4" Screened Overflow / Warning Pipe - R30E

4" Screened Overflow Assembly + Internal Elbow (Type16)

LS7 PPS Level Switch c/w half inch NPT

Threaded Flange - Low Level Switch

LS7 PPS Level Switch c/w half inch NPT

Threaded Flange - High Level Switch

Notes :

- 1 :** Units to be installed as per manufacturers recommendations.
- 2 :** Contractor shall make site measurements prior to ordering.
- 3 :** To be installed on an appropriate base.

3.20.3 Extract Fans

Manufacturer: Vent Axia
Tel: 0844 856 0590

Ref : EF-01
Model : ACM200
No. off : 1
Serving : Ground Floor Plant Room
Location : Ground Floor
Duty : 150l/s @80Pa
Dimensions : 300mm L x 225mm dia.
Connection Sizes : 200mm dia.
SPL : <20 dBA@3m
Electrical supply : 220-240, 50Hz
Fan Rating : 110W
Full Load Current : 0.55A

Ref : EF-02
Model : ACM200
No. off : 1
Serving : Basement Plant Room
Location : Basement
Duty : 170l/s @80Pa
Dimensions : 300mm L x 225mm dia.
Connection Sizes : 200mm dia.
SPL : <20 dBA@3m
Electrical supply : 220-240, 50Hz
Fan Rating : 110W
Full Load Current : 0.55A

Ref : EF-04
Model : ACM200
No. off : 1
Serving : Laundry Room
Location : Laundry Room
Duty : 70l/s @150Pa
Dimensions : 300mm L x 225mm dia.
Connection Sizes : 200mm dia.
SPL : <33 dBA@3m
Electrical supply : 220-240, 50Hz
Fan Rating : 110W
Full Load Current : 0.55A

Ref : EF-05
Model : ACM200
No. off : 1
Serving : Tank Room
Location : Tank Room
Duty : 70l/s @150Pa
Dimensions : 300mm L x 225mm dia.
Connection Sizes : 200mm dia.
SPL : <33 dBA@3m
Electrical supply : 220-240, 50Hz

3816 - Duke Street

Fan Rating : 110W

Shutter : 0.55A

Notes :

- 1** : Units to be installed as per manufacturers recommendations.
- 2** : Contractor shall make site measurements prior to ordering.

3.20.4 Cold Water Booster Set

Manufacturer : Flowtech
Tel: : 03332001756

Booster Set : CWBS 01
Location : Tank Room
Model : Flowboost 3V.H.V.3.F1507
Number Of : 3 (duty/assist/standby)
Nominal Flow : TBC
Nominal Head : TBC
Weight : TBC
Power supply : TBC (each)
Rated Current : TBC
Rated Power : TBC

Notes :

- 1** : Units to be installed as per manufacturers recommendations.
- 2** : Contractor shall make site measurements prior to ordering.
- 3** : To be installed on an appropriate base.

3.20.5 Hot Water Cylinder

Manufacturer : Heatrae Sadia
Tel: : 0344 871 1535

Ref : HWC 01

Location : Ground Floor Plant Room

Model : Megaflo Commercial Cylinder

No of : 1 No per floor

Type : Unvented Direct Hot Water Cylinder

Dimensions : TBC

Capacity : 600 litres

Coil rating : TBC

Power supply : 400/3P/50Hz

Weight : TBC kg

Expansion Vessel : As per manufacturer's recommendations

Notes :

- 1 : Units to be installed as per manufacturers recommendations.
- 2 : Contractor shall make site measurements prior to ordering.
- 3 : Units to be provided with integral strainer, pressure reducing valve, check valve and gauge - as per manufacturers recommendations.
- 4 : Units to be provided with 2 No temperature gauge.

3.20.6 Secondary Return Pumps

Manufacturer : WILO SE
Tel : 01283 523000

Reference : P01
Location : Ground Floor Plant Room
Model : Wilo-Yonos
No. of units : 2 (Duty/Standby)
Flow : 0.13l/s l/s
Resistance : 150 kPa
Electrical supply : 230V/1P/50Hz
Max Power Input : 305W
Max Current : 1.3A

Notes :

- 1 :** Units to be installed as per manufacturers recommendations.
- 2 :** Contractor shall make site measurements prior to ordering.
- 3 :** Unit to be installed on anti-vibration mounts.

Manufacturer : Flakt Woods
Tel : 0845 608 4446

Reference: AHU01
Location: Roof
System: Supply and extract
Unit Type: COM4plus
Model Type: CL30
Air Volume: 1.5 m³/s
External Resistance: 300Pa
Dimensions: TBC
Noise: 1,250 kg
Electrical:
Run/Start Current: 10A
Motor Rating: TBC
Note: 3ph power supply
Controls: Speed Controller, fire alarm interface.
Accessories

- 1 To be mounted as per manufacturer recommendations.
- 2 To be installed with manufacturer's external grille in suitable RAL colour
- 3 To be installed with F7 filter section before fan.

3.20.8 SUPPLY GRILLES



Manufacturer: Gilberts
Tel: 01253 766 911

Ref No.		Serving	Air Volume m³/s	Diffuser Type	Duct Size mm	Spigot Size mm	Grille Size mm	Notes
SV01		Living Areas		Series SX	125	125	150	
SV02		Bedroom		Series SX	125	125	150	

- Notes :
- 1 : Units to be installed as per manufacturers recommendations.
 - 2 : Contractor shall make site measurements prior to ordering.
 - 3 : **All grilles/valves on Second Floor to be fitted with fire rated intumescent blocks.**

3.20.9 EXTRACT GRILLES

Manufacturer: Gilberts
 Tel: 01253 766 911

Ref No.	Floor	Serving	No off	Air Volume m ³ /s	Diffuser Type	Duct Size mm	Spigot Size mm	Grille Size mm	Notes
EV01		Bathroom	12	0.013	Series PX	125	125	150	
EV02		Kitchen	18	0.021	Series PX	125	125	150	
EV03		Utility	6	0.05	Series PX	150	150	200	

Notes :

- 1 :** Units to be installed as per manufacturers recommendations
- 2 :** Contractor shall make site measurements prior to ordering
- 3 :** **All grilles/valves on Second Floor to be fitted with fire rated intumescent blocks.**

3.20.10 Door Transfer Grilles

Manufacturer: Gilberts
Tel: 01253 766 911

Ref No.	Floor Level	Serving	No off	Air Volume m ³ /s	Grille Type	Grille Size mm	Notes
TG01	G	Bin Store	1	0.17	Series FB700	406X406	Fire rated with intumescent block.
TG02	G	Plant Room	1	0.15	Series FB700	406x406	Fire rated with intumescent block.
TG03	G	Tank Room	2	0.31	Series FB700	406x406	Fire rated with intumescent block.
TG04	G	Bike Store	1	0.16	Series FB700	406x406	Fire rated with intumescent block.
TG05	G	Bike Store	1	0.16	Series FB700	406x406	Fire rated with intumescent block.

Notes :

1. Units to be installed as per manufacturers recommendations.
2. Contractor shall make site measurements prior to ordering.
3. **All grilles to be fitted with fire rated intumescent blocks.**