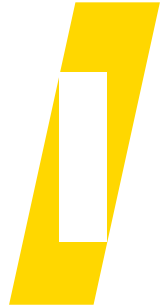

PROJECT

Flat 5
10 Cambridge Gate
NW1 4JX

DATE

01.02.2019



MECHANICAL EQUIPMENT SCHEDULE

REVISION	STATUS	PREPARED	CHECKED	DATE
T1	Tender	Samuel Morgan	Ketan Bhanderi	01.02.19
T2	Tender Addendum	Samuel Morgan	Ketan Bhanderi	11.06.19

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BOILER SCHEDULE

Reference	GB/01
Location	Laundry Room
Manufacturer	Vaillant
Model Reference	Ecotec plus System - 37kW
Operating Temperatures	<85C
Heat Output (@80/60°C)	6.4 - 37.6
SEDBUK 2009 / ErP Rating	89.2
NO_x Emissions / CO (mg/kWh)	36
Flue	80/125 concentric (flue gas temperature = 40C-70C)
Condensate Connection	20mm minimum
Controls	Vaillant vSmart heating controller and thermostat
Dimensions (HxWxD)mm	720 x 440 x 406
Weight (kg)	41
Gas Flow Rate (m³/h)	3.74 - 4.36
Gas Pressure (mbar)	13 - 23
Notes:	

HOT WATER CYLINDER

Reference	CYL/01
Location	Laundry Room
Manufacturer	Vaillant
Model Reference	VIH-GB-200/3 BES
Operating Temperatures (deg C)	80C F and 60C R
Storage volume (Lts)	200
Rating of primary coil (kW)	16
Dimensions (WxH) mm	700 x 1265
Weight (kg)	256
Controls	Vaillant vSmart heating controller and thermostat
Reference	CYL/01

RADIATOR SCHEDULE

Room	Radiator Specification				Dimensions (mm)			Notes
	Reference	Duty (kW)	Make	Model	L (mm)	H (mm)	D (mm)	
Living Room	RAD/01	2.3	Myson	60 PT 100G	1000	600	154	Plan - Type 33
	RAD/02	2.3	Myson	60 PT 100G	1000	600	154	Plan - Type 33
	RAD/03	2.8	Myson	60 PT 120G	1200	600	154	Plan - Type 33
Powder Rm	RAD/04	0.3	Myson	30 PS 60G	600	300	63	Plan - Type 11
Foyer	RAD/05	0.96	Myson	60 PX 80G	800	600	80	Plan - Type 21
	RAD/06	0.96	Myson	60 PX 80G	800	600	80	Plan - Type 21
Dining Room	RAD/07	2.8	Myson	60 PT 120G	1200	600	154	Plan - Type 33
Kitchen	RAD/08	1.54	Myson	60 PX 120G	1200	600	80	Plan - Type 21
Toilet & Bath	TR/02	0.6	Phoenix	RA110	635	874	245 ± 3	Phoenix Helena
Utility Room	RAD/09	1.37	Myson	60 PD 80G	800	600	131	Plan - Type 22
Family Room	RAD/10	0.719	Myson	40 PD 60G	600	400	131	Plan - Type 22
	RAD/11	0.96	Myson	40 PD 80G	800	400	131	Plan - Type 22
	RAD/12	0.719	Myson	40 PD 60G	600	400	131	Plan - Type 22
Master Bedroom	RAD/13	0.719	Myson	40 PD 60G	600	400	131	Plan - Type 22
	RAD/14	1.2	Myson	40 PD 100G	1000	400	131	Plan - Type 22
	RAD/15	0.719	Myson	40 PD 60G	600	400	131	Plan - Type 22
	RAD/16	0.719	Myson	40 PD 60G	600	400	131	Plan - Type 22
Master Bathroom	TR/03	1.24	Myson	RA110	635	874	245 ± 3	Phoenix Helena

UNDERFLOOR HEATING SCHEDULE

Room	Available Floor Area (m2)	UFH Reference	Duty (kW)	Make	Model	Electrical Load (A)	Notes
Powder Rm	1.60	UFH 01	0.30	Warmup	2SPM1.5	1.3A	Based on 200W/m2
Toilet & Bath	1.16	UFH 02	0.20	Warmup	2SPM2	1.74A	Based on 200W/m2
Master dresser	4.90	UFH 03	0.90	Warmup	2SPM4.5	3.91A	Based on 200W/m2
Master Bathroom	4.40	UFH 04	0.80	Warmup	2SPM4	3.48A	Based on 200W/m2

MVHR SCHEDULE

Reference	MVHR/01
Unit Location	Utility Cupboard
Type	Vertical unit
Total Air Volume (l/s)	17 - 70
External Pressure Drop (Pa)	250
Limiting SFP (W/l/s)	0.7
Electrical Data	240V/1Ph/50Hz
Room Noise Criteria (NR)	TBA
Unit Dimensions (L x W x D) (mm)	560 x 350 x 640
Weight (kg)	18
Manufacturer	Vent Axia
Model No.	Sentinel Kinetic

LOUVRE SCHEDULE

Louvre Reference	LV/01	LV/02
Location	Light well	Light well
Supply / Extract	MVHR exhaust	Kitchen Extract
Face Size, L(mm)	300	400
Face Size, W(mm)	300	400
Duty (l/s)	53	170
DP (Pa)	<10Pa	<10Pa
Plenum Dims (L x W x H) (mm)	N/A	N/A
Spigot Connection (mm)	Ø125	Ø150
Manufacturer	Air diffusion	Air diffusion
Model No.	FLB	FLB

GRILLE AND DIFFUSER SCHEDULE

Grille/Diffuser Reference	EG/01	EG/02	EG/03	EG/04	EG/05
Location	Master Bathroom	Master Bathroom	Utility Room	Bathroom	Toilet
Supply / Extract	Extract	Extract	Extract	Extract	Extract
Diffuser type	Disc Valve - Ceiling Mounted	Disc Valve - Ceiling Mounted	Disc Valve - Ceiling Mounted	Disc Valve - Ceiling Mounted	Disk valve - wall mounted in recess
Face Size, L(mm)	140 dia	140 dia	140 dia	140 dia	125 dia
Face Size, W(mm)	-	-	-	-	-
No of Ways/Slots	N/A	N/A	N/A	N/A	N/A
Room NR	25	25	25	25	25
Duty (l/s)	7	7	13	13	13
DP (Pa)	<15Pa	<15Pa	<15Pa	<15Pa	<15Pa
Throw (m)	N/A	N/A	N/A	N/A	N/A
Plenum Dims (L x W x H) (mm)	Direct duct connection	Direct duct connection	Direct duct connection	Direct duct connection	Direct duct connection
Spigot Connection (mm)	110x54-ø100 Fixed Socket Plenum	110x54-ø100 Fixed Socket Plenum	110x54-ø100 Fixed Socket Plenum	110x54-ø100 Fixed Socket Plenum	110x54-ø100 Fixed Socket Plenum
Manufacturer	Lindab	Lindab	Lindab	Lindab	Domus / plastic ductwork provider
Model No.	Airy	Airy	Airy	Airy	
Notes	Integral VCD	Integral VCD	Integral VCD	Integral VCD	Integral VCD

MECHANICAL EQUIPMENT SCHEDULE

Grille/Diffuser Reference	EG/06	EG/07	EG/08	EG/09	SG/01
Location	Master Bedroom	Family Room	Dining Room	Living Room	Master Bedroom
Supply / Extract	Return	Return	Return	Return	Supply
Diffuser type	Wall mounted Jet Throw	Wall mounted Jet Throw	Ceiling mounted High Throw	Wall mounted Jet Throw	Wall mounted Jet Throw
Face Size, L(mm)	1500mm	1400mm	2200mm	1800mm	1500mm
Face Size, W(mm)	38mm slot	38mm slot	38mm slot	63mm slot	38mm slot
No of Ways/Slots	1	1	1	1	1
Room NR	25	25	25	25	25
Duty (l/s)	125-145	125-145	225-270	≤270	125-145
DP (Pa)	<10Pa	<10Pa	<10Pa	<20Pa	<10Pa
Throw (m)	N/A	N/A	N/A	N/A	2.5m @ 0.5m/s
Plenum Dims (L x W x H) (mm)	1500x400x200	1400x400X200	2200x300x200	n/a	1500x400x200
Spigot Connection (mm)	200dia	200dia	3No. 200dia	2No. 200dia	750x150
Manufacturer	Air Diffusion	Air Diffusion	Air Diffusion	Air Diffusion	Air Diffusion
Model No.	FL-15	FL-15	FL-15	FL-20	FL-15
Notes					

MECHANICAL EQUIPMENT SCHEDULE

Grille/Diffuser Reference	SG/02	SG/03	SG/04	SG/05	SG/06
Location	Master Bedroom	Family Room	Family Room	Dining Room	Dining Room
Supply / Extract	Fresh Supply	Supply	Fresh Supply	Supply	Fresh Supply
Diffuser type	Wall mounted Jet Throw	Wall mounted Jet Throw	Wall mounted Jet Throw	Wall mounted Jet Throw	Wall mounted Jet Throw
Face Size, L(mm)	600mm	1200	600mm	2200mm	600mm
Face Size, W(mm)	38mm slot	38mm slot	38mm slot	38mm slot	38mm slot
No of Ways/Slots	1	1	1	1	1
Room NR	25	25	25	25	25
Duty (l/s)	13	125-145	13	225-270	13
DP (Pa)	<10Pa	<10Pa	<10Pa	<10Pa	<10Pa
Throw (m)	tbc	2.5m @ 0.5m/s	tbc	2.3m @ 0.5m/s	tbc
Plenum Dims (L x W x H) (mm)	600x200x200	1200x400x200	600x200x200	2200x300x200	600x300x200
Spigot Connection (mm)	110x54	200dia (x2)	110x54	1000x150	110x54
Manufacturer	Air Diffusion	Air Diffusion	Air Diffusion	Air Diffusion	Air Diffusion
Model No.	FL-15	FL-15	FL-15	FL-15	FL-15
Notes					

Grille/Diffuser Reference	SG/07	SG/08	SG/09	SG/10
Location	Entrance	Living Room	Living Room	Living Room
Supply / Extract	Fresh Supply	Supply	Supply	Fresh Supply
Diffuser type	Ceiling mounted High Throw	Ceiling mounted High Throw	Ceiling mounted High Throw	Ceiling mounted High Throw
Face Size, L(mm)	1125mm	4125mm	1500mm	600mm
Face Size, W(mm)	38mm slot	38mm slot	38mm slot	38mm slot
No of Ways/Slots	1	1	1	1
Room NR	25	25	25	25
Duty (l/s)	7	≤180	≤90	7
DP (Pa)	<10Pa	<10Pa	<10Pa	<10Pa
Throw (m)	tbc	tbc	tbc	tbc
Plenum Dims (L x W x H) (mm)	1000x200x200	1500x300x200 (x2)	1125x300x200	600x300x200
Spigot Connection (mm)	204x60	300x150	300x150	110x54
Manufacturer	Air Diffusion	Air Diffusion	Air Diffusion	Air Diffusion
Model No.	25C	25C	25C	FL-15
Notes				

DX UNITS SCHEDULE**INDOOR UNITS**

Reference	FCU/01	FCU/02	FCU/03	FCU/04
Room Reference	Living Room	Dining Room	Guest Bed	Master Bed
Unit Location	Living Room	Circulation	Circulation	Dresser
Outdoor Unit Reference	CON/01	CON/01	CON/01	CON/01
Type	Ceiling Concealed	Ceiling Concealed	Ceiling Concealed	Ceiling Concealed
Cooling Load (kW) - (S)	3.5	2.3	1.0	1.6
Cooling Load (kW) - (L)	0.4	0.4	0.1	0.1
Heating Load (kW)	N/A	N/A	N/A	N/A
Fresh Air Volume (l/s)	27	13	13	13
Total Air Volume (l/s)	225 - 270	125 - 145	125-145	125-145
External Pressure Drop (Pa)	40	40	30	30
Room Noise Criteria (NR)	TBA	TBA	TBA	TBA
Unit Dimensions (L x W x D) (mm)	1150 x 620 x 200	750 x 620 x 200	750 x 620 x 200	750 x 620 x 200
Weight (kg)	28	21	21	21
Manufacturer	Daikin	Daikin	Daikin	Daikin
Model No.	FDXM60F3	FDXM35F3	FDXM25F3	FDXM25F3

OUTDOOR UNITS

Reference	CON/01
Unit Location	Lightwell walkway
Sound Power Level (dB(A))	64
Power Supply Details	240V/1Ph/50Hz (RC-9.94A, SC – 11.8A)
Cooling Minimum SEER	-
Minimum Heating SCOP	N/A
Unit Dimensions (L x H x D) (mm)	958 x 734 x 340
Weight (kg)	68
Manufacturer	Daikin
Model No.	5MXM90N

WATER SOFTNER SCHEDULE

Make	Kentico
Model No.	Premier Compact
Dimensions (HxWxD)mm	498 x 219 x 468
Regeneration Time	10 minutes
Flow Rate (l/s)	0.555
Pressure Drop (bar)	1