

Schedules

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Rev A 31st August 2024

Rev B 16th September 2024

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

C3016 Mappin & Webb
17 - 21 St Anns Square
Manchester
M2 7PW

REV (B)

C3016-SCH-M01 DX Units

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

DX Unit Schedule (Indoor Units)															
Ref	Area Serving / Position	Reference	Qty	Nominal cooling	Nominal Heating	Air Flow l/s	Height	Width	Depth	Weight	Phase	Fuse Rating	Power kW	Running A	Noise dBA @ 1.5m
	BASEMENT (EC1)														
AC1	Hospitality	PFFY-P50VCM-E	1	5.6kW	6.3kW	225	690	900	200	22.5kg	Single	6A	0.052	0.50	34
AC2	Hospitality	PFFY-P50VCM-E	1	5.6kW	6.3kW	225	690	900	200	22.5kg	Single	6A	0.052	0.50	34
AC3	Hospitality	PFFY-P50VCM-E	1	5.6kW	6.3kW	225	690	900	200	22.5kg	Single	6A	0.052	0.50	34
AC4	Hospitality	PFFY-P50VCM-E	1	5.6kW	6.3kW	225	690	900	200	22.5kg	Single	6A	0.052	0.50	34
AC5	After Sales 1	PFFY-P20VCM-E	1	2.2kW	2.5kW	117	690	700	200	18.0kg	Single	6A	0.022	0.25	26
AC6	After Sales 2	PFFY-P20VCM-E	1	2.2kW	2.5kW	117	690	700	200	18.0kg	Single	6A	0.022	0.25	26
	GROUND FLOOR (EC2)														
AC7	Estate Jewellery	PFFY-P20VCM-E	1	2.2kW	2.5kW	117	690	700	200	18.0kg	Single	6A	0.022	0.25	26
AC8	Mappin & Webb	PFFY-P40VCM-E	1	4.5kW	5.0kW	183	690	900	200	22.5kg	Single	6A	0.038	0.38	30
AC9	Small Mappin & Webb	PFFY-P20VCM-E	1	2.2kW	2.5kW	117	690	700	200	18.0kg	Single	6A	0.022	0.25	26
AC10	Pasquale	PFFY-P32VCM-E	1	3.6kW	4.0kW	142	690	700	200	18.5kg	Single	6A	0.031	0.34	30
AC11	Fred	PFFY-P32VCM-E	1	3.6kW	4.0kW	142	690	700	200	18.5kg	Single	6A	0.031	0.34	30
AC12	Repossi	PFFY-P40VCM-E	1	4.5kW	5.0kW	183	690	900	200	22.5kg	Single	6A	0.038	0.38	30
AC13	Fope	PFFY-P20VCM-E	1	2.2kW	2.5kW	117	690	700	200	18.0kg	Single	6A	0.022	0.25	26
AC14	Choppard	PFFY-P40VCM-E	1	4.5kW	5.0kW	183	690	900	200	22.5kg	Single	6A	0.038	0.38	30
	GROUND FLOOR (EC3)														
AC15	Lift (Left)	PFFY-P63VCM-E	1	7.1kW	8.0kW	275	690	1100	200	25.5kg	Single	6A	0.058	0.49	35
AC16	Temporary Display	PFFY-P50VCM-E	1	5.6kW	6.3kW	225	690	900	200	22.5kg	Single	6A	0.052	0.50	34
AC17	David Yuman	PFFY-P50VCM-E	1	5.6kW	6.3kW	225	690	900	200	22.5kg	Single	6A	0.052	0.50	34
AC18	Roberto	PFFY-P50VCM-E	1	5.6kW	6.3kW	225	690	900	200	22.5kg	Single	6A	0.052	0.50	34
AC19	De Beers	PFFY-P32VCM-E	1	3.6kW	4.0kW	142	690	700	200	18.5kg	Single	6A	0.031	0.34	30
DC1	Sales Area (Door Curtain) EC4	HP1000R DXE	1	7.4kW	8.3kW	364	348	1250	1303	52.0kg	Single	Fed from Outdoor Unit		0.80	57
DC2	De Beers (Door Curtain) EC5	HP1000R DXE	1	7.4kW	8.3kW	364	348	1250	1303	52.0kg	Single	Fed from Outdoor Unit		0.80	57
	BASEMENT (EC6)														
AC20	Managers Office	PLFY-P15VFM-E	1	1.7kW	1.9kW	133	245	570	570	14.0kg	Single	6A	0.020	0.19	30
AC21	Admin Offrice	PLFY-P40VFM-E	1	4.5kW	5.0kW	183	245	570	570	15.0kg	Single	6A	0.030	0.28	39
AC22	Staff Room	PLFY-P32VFM-E	1	3.6kW	4.0kW	142	690	700	200	18.5kg	Single	6A	0.031	0.34	30
-	Cassette Grilles (AC1 to AC3)	SLP-2FA Grille	3	-	-	-	10	625	625	3.0kg	-	-	-	-	-
21No PAR-41MAA Wired remote controller, 18No CMY-Y62G-E Branch Pipes															
DC1 & DC2 Overall Grille Size 1303mm x 539mm															

C3016-SCH-M01 DX Units

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

DX Unit Schedule (Condensers)															
Ref	Position	Reference	Qty	Nominal cooling	Nominal Heating	Air Flow l/s	Height	Width	Depth	Weight	Phase	Fuse Rating	Starting Current	Running A	Noise dBA @ 1.5m & 10m
EC1	Plant Area Above Stairs (Right)	PUMY-P250YBM2	1	28.0kW	31.5kW	3050	1662	1050	505	192kg	Three	32A	7.0A	12.74A	
EC2	Plant Area Above Stairs (Right)	PUMY-P250YBM2	1	28.0kW	31.5kW	3050	1662	1050	505	192kg	Three	32A	7.0A	12.74A	55 & 41
EC3	Plant Area Above De Beers	PUMY-P250YBM2	1	28.0kW	31.5kW	3050	1662	1050	505	192kg	Three	32A	7.0A	12.74A	55 & 41
EC4	Plant Area Above De Beers	PUZ-ZM71VHA2	1	7.4kW	8.3kW	917	943	950	355	67kg	Single	25A	5.3A	25.00A	55 & 41
EC5	Plant Area Above De Beers	PUZ-ZM71VHA2	1	7.4kW	8.3kW	917	943	950	355	67kg	Single	25A	5.3A	25.00A	49 & 35
EC6	Plant Area Above De Beers	PUMY-SP112YKM2	1	12.5kW	14.0kW	1284	981	1050	370	94kg	Three	16A	7.0A	6.78A	49 & 35
21No PAR-41MAA Wired remote controller, 18No CMY-Y62G-E Branch Pipes															
Notes - External Condensers are switched off at night when store alarm is switched on. Noise levels based under free field conditions i.e. no reflective surfaces.															
As Manufactured by Mitsibishi.															

C3016-SCH-M02 Condensate Pump

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Condensate Lifter Pump Schedule												
Reference	System	Quantity	Type		Manufacturers Reference	Duty l/h	Suction Head	Delivery Head	Volts	Htz	Power	Alarm Contact
LP	Condensate Lifter Pump	(as required)	Reciprocating piston	3 level float. Alarm contact Thermal protection	SI3100 + N721	10	2	6	230	50	18	NC 8A
As manufactured by Sauermann or equal												

C3016-SCH-M03a Fans

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C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Fan Schedule & Electric Duct Heater											
Ref	Room Name	Fan Size	Req Static Pressure	Volume Flow Rate	Controls	Speed	Power kw	Volts	Sound dB(A)	Hz	Accessories / Notes
HRU1	Basement & Ground Floor (Left Hand Side)	Lossnay-250RVXT-E	138Pa 113Pa	597l/s 501l/s	PZ-62DR-EB	Speed 4	1.446	230v	43	50	
HRU2	Basement (Right Hand Side) Bar / Customer Areas	Lossnay LGH-100RVX3-E	103Pa 54Pa	310l/s 234l/s	PZ-62DR-EB	Speed 4	0.495	230	43	50	Fan Speed Setting 100% / 70% (495watts / 205watts)
HRU3	Basement (Right Hand Side) BoH & After Sales	Lossnay LGH-50RVX3-E	88Pa 71Pa	145l/s 145l/s	PZ-62DR-EB	Speed 4	0.154	230	35	50	Fan Speed Setting 90% / 90% (154watts / 158watts)
HRU4	Ground Floor (Right Hand Side)	Lossnay LGH-100RVX3-E	72Pa 85Pa	260l/s 265l/s	PZ-62DR-EB	Speed 4	0.438	230	38	50	Fan Speed Setting 80% / 80% (288watts / 283watts)
F1	Basement Toilet Extract (Left Hand Side)	Vent Axia ACM150	76Pa	96l/s	Vent Axia Electronic 1.5A Controller & Light Switches	Medium Speed	0.050	230	32	50	
F2	Toilet Extract (Right Hand Side)	Vent Axia ACM150	72Pa	71l/s	Vent Axia Electronic 1.5A Controller & Light Switches	High Speed	0.050	230	36	50	
F3	Ground Floor (Fog Cloaking System)	Vent Axia ESP63034 4Pole Plate Axia	92Pa	4547l/s	DOL Starter 12.0A Max	High Speed	1.900	415	68		3 Phase Fan
HRU1to HRU4 as manufactured by Mitsubishi, F1 to F3 as manufactured by Vent Axia (All duties Nett)											

C3016-SCH-M03b Door Curtain

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Electric Door Curtain Schedule											
Ref	Room Name	Heat Output kW	Length mm	Depth mm	Height mm	Manufacturers Reference	Controls & Accessories	Power kW	Current A / ~	V	Weight kg
				Refer to DC1 & DC2 in schedule C3016-SCH-M01 DX Units							
As Manufactured by Thermoscreens / As supplied by Mitsubishi											

C3016-SCH-M04 Attenuators

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C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Attenuator Schedule											
Notes 1. All attenuators shall be supplied by CAICE or equal and approved. 2. The Contractor shall order the attenuators scheduled below, and shall send finalised drawings and equipment noise levels to the attenuator supplier to check the selections prior to manufacture. 3. The attenuator supplier shall then undertake acoustic calculations to ensure that the attenuators achieve the specified noise criteria, based upon the finalised information. 4. A Technical Submittal comprising acoustic calculations and a finalised schedule of attenuators shall then be issued to the Consultant for final approval. 5. If an alternative attenuator supplier is proposed then the Contractor shall allow for them to undertake witnessed tests to prove their claimed insertion loss performance in a UKAS accredited BS EN ISO 7235: 2009 test facility, for two sample units. This shall be undertaken prior to order. 6. Pressure losses are stated in accordance with ISO 7235, which is based on laminar airflow conditions. The system designer shall make allowance for increased attenuator pressure losses where turbulent airflow conditions exist on the attenuator entry or exit. 7. Unless stated otherwise all attenuators shall be constructed as follows: Galvanised sheet steel casings with 30mm profile flanges that are fully compliant with DW/TM1 at a high pressure rating (+2000/-750Pa). Profile flanges shall be compatible with Doby, Mez & Metu flanging systems. Elements shall be installed in the vertical plane, with side elements provided as standard, and all elements shall have aerodynamic inlet and outlet fairings. Element facings shall be constructed from expanded galvanised steel mesh with fibre glass tissue bonded to the inner face. Mineral wool infill shall be overpacked to minimise voids due to settlement. Attenuator ends shall be protectively wrapped, and all attenuators shall be delivered to site on pallets and individually labelled.											
Ref.	Description	Type and Model Code	Qty	Dimensions (mm)			Weight	Vol (m³/s)	PL (Pa)	Noise Criteria	Features
				W	H	L					
ATT01	HRU1 FAI	LG01H/3C/L/S	1	750	250	600	22kg	0.597	13	NC50 at 3m	Rectangular & Horizontal Elements
ATT02	HRU1 Supply	LG01H/3C/L/SN	1	750	250	900	29kg	0.597	14	NR35	Rectangular & Horizontal Elements
ATT03	HRU1 Extract	LG01H/3C/L/S	1	750	250	900	30kg	0.501	10	NR35	Rectangular & Horizontal Elements
ATT04	HRU1 Exhaust	LG01H/3C/L/SN	1	750	250	600	21kg	0.501	9	NC50 at 3m	Rectangular & Horizontal Elements
ATT05	Fan F1 Extract	LG01V/1E/L/S	1	275	225	620	16kg	0.096	19	NR40	Rectangular & 200 dia Spigot Ends
ATT06	Fan F1 Exhaust	Circular CG01U/2K/L	1	200 dia	-	300	5kg	0.096	0	55dBA at 1m	Circular Attenuator. Un-podded
ATT07	HRU2 FAI	LG01V/3C/L/S	1	350	350	450	13kg	0.310	13	55dBA @ 1m	Rectangular
ATT08	HRU2 Supply	LG01V/3C/L/S	1	350	350	450	13kg	0.310	13	NR35	Rectangular
ATT9	HRU2 Extract	LG01H/3C/L/S	1	350	350	450	13kg	0.234	8	NR35	Rectangular
ATT10	HRU2 Exhaust	LG01H/3C/L/S	1	350	350	240	13kg	0.234	8	55dBA @ 1m	Rectangular
As manufactured by CAICE											

C3016-SCH-M04 Attenuators

Ref.	Description	Type and Model Code	Qty	Dimensions (mm)			Weight	Vol (m³/s)	PL (Pa)	Noise Criteria	Features
				W	H	L					

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C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Attenuator Schedule

Notes

1. All attenuators shall be supplied by Caice or equal and approved.
2. The Contractor shall order the attenuators scheduled below, and shall send finalised drawings and equipment noise levels to the attenuator supplier to check the selections prior to manufacture.
3. The attenuator supplier shall then undertake acoustic calculations to ensure that the attenuators achieve the specified noise criteria, based upon the finalised information.
4. A Technical Submittal comprising acoustic calculations and a finalised schedule of attenuators shall then be issued to the Consultant for final approval.
5. If an alternative attenuator supplier is proposed then the Contractor shall allow for them to undertake witnessed tests to prove their claimed insertion loss performance in a UKAS accredited BS EN ISO 7235: 2009 test facility, for two sample units. This shall be undertaken prior to order.
6. Pressure losses are stated in accordance with ISO 7235, which is based on laminar airflow conditions. The system designer shall make allowance for increased attenuator pressure losses where turbulent airflow conditions exist on the attenuator entry or exit.
7. Unless stated otherwise all attenuators shall be constructed as follows: Galvanised sheet steel casings with 30mm profile flanges that are fully compliant with DW/TM1 at a high pressure rating (+2000/-750Pa). Profile flanges shall be compatible with Doby, Mez & Metu flanging systems. Elements shall be installed in the vertical plane, with side elements provided as standard, and all elements shall have aerodynamic inlet and outlet fairings. Element facings shall be constructed from expanded galvanised steel mesh with fibre glass tissue bonded to the inner face. Mineral wool infill shall be overpacked to minimise voids due to settlement. Attenuator ends shall be protectively wrapped, and all attenuators shall be delivered to site on pallets and individually labelled.

Ref.	Description	Type and Model Code	Qty	Dimensions (mm)			Weight	Vol (m³/s)	PL (Pa)	Noise Criteria	Features
				W	H	L					
ATT11	HRU3 FAI	CG01U/2K/L	1	250 dia	-	600	10kg	0.145	0	55dBA at 1m	Circular Unpodded Spigots
ATT12	HRU3 Supply	CG01U/2K/L	1	250 dia	-	900	14kg	0.145	0	NR35	Circular Unpodded Spigots
ATT13	HRU3 Extract	CG01U/2K/L	1	250 dia	-	900	14kg	0.145	0	NR35	Circular Unpodded Spigots
ATT14	HRU3 Exhaust	CG01U/2K/L	1	250 dia	-	600	10kg	0.145	0	55dBA at 1m	Circular Unpodded Spigots
ATT15	HRU4 FAI	LG01V/3C/L/S	1	350	350	450	13kg	0.260	9	55dBA @ 1m	Rectangular
ATT16	HRU4 Supply	LG01V/3C/L/S	1	350	350	450	13kg	0.260	9	NR35	Rectangular
ATT17	HRU4 Extract	LG01H/3C/L/S	1	350	350	450	13kg	0.265	10	NR35	Rectangular
ATT18	HRU4 Exhaust	LG01H/3C/L/S	1	350	350	450	13kg	0.265	10	55dBA @ 1m	Rectangular
ATT19	Fan F2 Extract	Circular CG01U/2K/L	1	200 dia	-	600	8kg	0.071	0	NR40	Circular Attenuator. Un-podded
ATT20	Fan F2 Exhaust	Circular CG01U/2K/L	1	200 dia	-	300	5kg	0.071	0	55dBA at 1m	Circular Attenuator. Un-podded

As manufactured by CAICE

Supply Grille / Diffuser Schedule									
Ref	Room Name	Qty	New / Existing	Size	Type	Manufacturers Reference	Plenum for active length, to include 90 deg bend with turning vanes	Volume Flow Rate (per plenum)	Resistance Pa (Inc Plenum)
S1	Hospitality (AC1)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1000 x 121 Plenum (length to suit void)	225l/s (225l/s/m)	33Pa
S2	Hospitality (AC2)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1000 x 121 Plenum (length to suit void)	225l/s (225l/s/m)	33Pa
S3	Hospitality (AC3)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1000 x 121 Plenum (length to suit void)	225l/s (225l/s/m)	33Pa
S4	Hospitality (AC4)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1000 x 121 Plenum (length to suit void)	225l/s (225l/s/m)	33Pa
S5	After Sales (AC5)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1300 x 121 Plenum (length to suit void)	117l/s (90l/s/m)	8Pa
S6	After Sales (AC6)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1300 x 121 Plenum (length to suit void)	117l/s (90l/s/m)	8Pa
S7	Estate Jewellery (AC7)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1400 x 121 Plenum (length to suit void)	117l/s (83l/s/m)	7Pa
S8	Mappin & Webb (AC8)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	860 x 121 Plenum (length to suit void)	183l/s (213l/s/m)	33Pa
S9	Small M & W (AC9)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	850 x 121 Plenum (length to suit void)	117l/s (138l/s/m)	14Pa
S10	Pasquale (AC10)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	660 x 121 Plenum (length to suit void)	142l/s (215l/s/m)	30Pa
S11	Fred (AC11)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	660 x 121 Plenum (length to suit void)	142l/s (215l/s/m)	30Pa
S12	Repossi (AC12)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	900 x 121 Plenum (length to suit void)	183l/s (203l/s/m)	27Pa
S13	Fope (AC13)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	850 x 121 Plenum (length to suit void)	117l/s (138l/s/m)	14Pa
S14	Chopard (AC14)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1300 x 121 Plenum (length to suit void)	183l/s (141l/s/m)	16Pa
S15	Lift (Left) (AC15)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1600 x 121 Plenum (length to suit void)	275l/s (172l/s/m)	22Pa
S16	Temp Display (AC16)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1400 x 121 Plenum (length to suit void)	225l/s (161l/s/m)	29Pa
S17	David Yuman (AC17)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1000 x 121 Plenum (length to suit void)	225l/s (225l/s/m)	33Pa
S18	Roberto (AC18)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	1000 x 121 Plenum (length to suit void)	225l/s (225l/s/m)	33Pa
S19	De Beers (AC19)	1	New	TBC x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4	660 x 121 Plenum (length to suit void)	142l/s (215l/s/m)	30Pa
S20	Vanity Room	1	New	300 x 300	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/300x300/PA1/U/N/0/224dia NR		96l/s	9Pa
S21	Staff Room	1	New	225 x 225	Multicone Diffuser 4 Way	32W/SA4/G/ PPM 9010/225x225/PA1/U/N/0/200dia NR		70l/s	11Pa
S22	Storage	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/125dia NR		15l/s	5Pa
S23	BoH Corridor	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/150dia NR		30l/s	10Pa
S24	Admin Office	1	New	225 x 225	Multicone Diffuser 4 Way	32W/SA4/G/ PPM 9010/225x225/PA1/U/N/0/150dia NR		45l/s	8Pa
S25	Managers Office	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/150dia NR		36l/s	13Pa
S26	Eventing Room	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/125dia NR		15l/s	5Pa
S27	Adjustment Room	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/150dia NR		30l/s	10Pa
As Manufactured by Air Diffuson Finish TBC , FBBO-20 Blanking Plates on all inactive sections of Flobar. Builderswork slots are minimum sizes Plenums spigots and 90 deg Bend with Turning Vanes etc for AC units AC1 to AC17 Refer to drawing C3016-24-M-6.1									

C3016-SCH-M05 Supply Diff

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

[illegible]

Extract Grille / Diffuser Schedule									
Ref	Room Name	Qty	New / Existing	Size	Type	Manufacturers Reference	Plenum, Corner Sections & Dampers etc.	Volume Flow Rate (Per Plenum)	Resistance Pa (Inc Plenum)
E1a	Hospitality (AC1)	1	New	1000 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		102l/s	6Pa
E1b	Hospitality (AC1)	1	New	1200 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		123l/s	6Pa
E2a	Hospitality (AC2)	1	New	1200 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		123l/s	6Pa
E2b	Hospitality (AC2)	1	New	1000 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		102l/s	6Pa
E3	Hospitality (AC3)	1	New	2200 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		225l/s	6Pa
E4	Hospitality (AC4)	1	New	2200 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		225l/s	6Pa
E5	After Sales 1 (AC5)	1	New	1000 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		117l/s	6Pa
E6	After Sales 2 (AC6)	1	New	1700 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		187l/s	6Pa
E7	Estate Jewellery (AC7)	1	New	1000 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		117l/s	6Pa
E8	Mappin & Webb (AC8)	1	New	1700 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		183l/s	6Pa
E9a	Small Mappin & Webb (AC9)	1	New	500 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		59/s	6Pa
E9b	Small Mappin & Webb (AC9)	1	New	500 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		58l/s	6Pa
E10	Pasquale (AC10)	1	New	1300 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		142l/s	5Pa
E11	Fred (AC11)	1	New	1300 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		142l/s	5Pa
E12a	Repossi (AC12)	1	New	850 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		91l/s	6Pa
E12b	Repossi (AC12)	1	New	850 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		92l/s	6Pa
E13	Fope (AC13)	1	New	1000 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		117l/s	6Pa
E14	Choppard (AC14)	1	New	1700 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		183l/s	6Pa
E15a	Lift (Left) (AC15)	1	New	1900 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		180l/s	6Pa
E15b	Lift (Left) (AC15)	1	New	1000 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		95l/s	6Pa
E16	Temp Display (AC16)	1	New	2200 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		225l/s	6Pa
E17a	David Yuman (AC17)	1	New	1100 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		112l/s	6Pa
E17b	David Yuman (AC17)	1	New	1100 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		113l/s	6Pa
E18a	Roberto (AC18)	1	New	635 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		65l/s	6Pa
E18b	Roberto (AC18)	1	New	1565 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		160l/s	6Pa
E19a	De Beers (AC19)	1	New	650 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		71l/s	5Pa
E19b	De Beers (AC19)	1	New	650 x 65	Builderswork Slot in wall	N/A (Size refers to opening size)		71l/s	5Pa
E20	Ground Floor Right of Lift	1	New	2280 x 121	Flobar JT 51mm Slot	55-JT-1-20-E2-F6-4-4		260l/s (114l/s/m)	7Pa

As Manufactured by Air Diffuson **Finish TBC**, E20 FBR -20 Light Shield. Builderswork slots are minimum sizes

Extract Grille / Diffuser Schedule									
Ref	Room Name	Qty	New / Existing	Size	Type	Manufacturers Reference	Plenum, Corner Sections & Dampers etc.	Volume Flow Rate (Per Plenum)	Resistance Pa (Inc Plenum)
E21	Fope	1	New	950 x 125	Builderswork Slot in wall	N/A (Size refers to opening size)		215l/s	5Pa
E22	Vanity Room	1	New	300 x 300	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/300x300/	PA1/U/N/0/125dia NR	30l/s	3Pa
E23	Staff Room	1	New	225 x 225	Multicone Diffuser 4 Way	32W/SA4/G/ PPM 9010/225x225/	PA1/U/N/0/200dia NR	70l/s	13Pa
E24	Admin Office	1	New	225 x 225	Multicone Diffuser 4 Way	32W/SA4/G/ PPM 9010/225x225/	PA1/U/N/0/200dia NR	60l/s	9Pa
E25	BoH Circulation	1	New	300 x 300	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/300x300/	PA1/U/N/0/224dia NR	111l/s	11Pa
E26	Staff Toilet	1	New	125 dia	Valve	EPV-1	N/A	22l/s	13Pa
E27	Staff Toilet	1	New	125 dia	Valve	EPV-1	N/A	22l/s	13Pa
E28	Staff Toilet	1	New	125 dia	Valve	EPV-1	N/A	22l/s	13Pa
E29	Cleaners Cupboard	1	New	100 dia	Valve	EPV-1	N/A	15l/s	16Pa
E30	CEA Basement	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/150dia NR		30l/s	9Pa
E31	Cloakroom	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/150dia NR		30l/s	9Pa
E32	CEA Ground Floor	1	New	150 x 150	Multicone Diffuser 4 Way	32W/SA4/G//PPM 9010/150x150/PA1/U/N/0/150dia NR		30l/s	9Pa
E33	Customer Acc Toilet	1	New	100 dia	Builderswork opening in upstand			17l/s	13Pa
E34	Customer Toilet	1	New	100 dia	Valve	EPV-1	N/A	13l/s	13Pa
E35	Customer Toilet	1	New	100 dia	Valve	EPV-1	N/A	13l/s	13Pa
E36	Customer Toilet	1	New	100 dia	Valve	EPV-1	N/A	13l/s	13Pa
E37	FoH Acc Toilet	1	New	100 dia	Builderswork opening in upstand			15l/s	13Pa

As Manufactured by Air Diffuson **Finish TBC**, E20 FBR -20 Light Shield, Builderswork slots are minimum sizes

Transfer Grille Schedule								
Ref	Room Name	Qty	New / Existing	Size	Type	Manufacturers Reference	Volume Flow Rate	Resistance Pa (Inc Plenum)
TG1	BoH Corridor	1	New	150 x 150	Egg Crate	GC5/150x150/ Finish TBC/R25/SF/PA1/150dia	30l/s	5Pa
TG2	Server Room	1	New	150 x 150	Egg Crate	GC5/150x150/ Finish TBC/R25/SF/PA1/150dia	30l/s	5Pa
TG3	Server Room to BoH Circulation	1	New	200 x 200	Door Transfer Grille & Intumescent Block	FB60 PS2 200 x 200 Finish TBC	30l/s	5Pa
TG4	Managers Office to BoH Circulation	1	New	200 x 200	Door Transfer Grille & Intumescent Block	FB60 PS2 200 x 200 Finish TBC	36l/s	4Pa
TG5	Eventing Room to BoH Circulation	1	New	200 x 200	Door Transfer Grille & Intumescent Block	FB60 PS2 200 x 200 Finish TBC	15l/s	2Pa
TG6	Adjustment Room to BoH Circulation	1	New	200 x 200	Door Transfer Grille & Intumescent Block	FB60 PS2 200 x 200 Finish TBC	30l/s	5Pa
TG7	Staff Toilet	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	22l/s	2Pa
TG8	Staff Toilet	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	22l/s	2Pa
TG9	Staff Toilet	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	22l/s	2Pa
TG10	Customer Acc Toilet (Basement)	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	17l/s	2Pa
TG11	Customer Toilet (Basement)	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	39l/s	5Pa
TG12	Customer Toilet (Basement)	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	13l/s	2Pa
TG13	Customer Toilet (Basement)	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	13l/s	2Pa
TG14	Bar Area	1	New	1000 x 200	Transfer Grille (45 degree Fixed Blade)	3HF/1000x200/ Finish TBC /R25/SF	310l/s	12Pa
TG15	Circulation (Basement Ceiling)	1	New	600 x 600	Transfer Grille (Egg Crate - Removable Core) - Access to ES Fire Damper	RCG-GC5/600x600/ Finish TBC / SF	290l/s	1Pa
TG16	Circulation (Basement Ceiling)	1	New	600 x 600	Transfer Grille (Egg Crate - Removable Core) - Access to ES Fire Damper	RCG-GC5/600x600/ Finish TBC / SF	234l/s	1Pa
TG17	BoH Corridor / Stairs (Basement)	1	New	200 x 200	Egg Crate	GC5/175x175/ Finish TBC/R25/SF/	20l/s	2Pa
TG18	BoH Corridor / Stairs (Basement)	1	New	200 x 200	Egg Crate	GC5/175x175/ Finish TBC/R25/SF/	20l/s	2Pa
TG19	BoH Corridor (Ground Floor)	1	New	200 x 200	Egg Crate	GC5/175x175/ Finish TBC/R25/SF/	20l/s	2Pa
TG20	BoH Corridor (Ground Floor)	1	New	200 x 200	Egg Crate	GC5/175x175/ Finish TBC/R25/SF/	20l/s	2Pa
TG21	Small M & W to FoH Lobby	1	New	200 x 200	Door Transfer Grille	PS2 200 x 200 Finish TBC	45l/s	6Pa
TG22	FoH Lobby to CEA	1	New	200 x 200	Door Transfer Grille & Intumescent Block	FB60 PS2 200 x 200 Finish TBC	30l/s	5Pa
TG23	FoH Lobby to FoH Acc Toilet	1	New	200 x 200	Door Transfer Grille & Intumescent Block	FB60 PS2 200 x 200 Finish TBC	15l/s	2Pa
TG1 to TG9 As Manufactured by Air Diffusion, or Equal FINISH TBC								

Louvre / FAI Grille Schedule								
Ref	Room Name	Qty	New / Existing	Size	Type	Plenum Size	Volume Flow Rate	Resistance Pa (Inc Plenum)
L1	Plantroom above stairs (EC1 & EC2) & Exhaust from HRU2 & HRU3	1	Existing	2720 x 1200 (TBC)	Existing Large Format Recessed Louvre (TBC)	N/A	234l/s (HRU2) 145l/s (HRU3) EC1 & EC2	N/A
L2	FAI to HRU2, HRU3 & HRU4	1	Existing	3240 x 1200 (TBC)	Existing Large Format Recessed Louvre (TBC)	HRU2 1000mm x 500mm HRU3 500mm x 500mm HRU4 1000mm x 500mm	310l/s (HRU2) 145l/s (HRU3) 260l/s (HRU4)	8Pa 10Pa 10Pa
L3	Exhaust from HRU4 & F2	1	Existing	2760 x 1200 (TBC)	Existing Large Format Recessed Louvre (TBC)	HRU4 1000mm x 500mm F2 300mm x 300mm	265l/s (HRU4) 71l/s (F2)	9Pa 14Pa
L4	Roof top Plant Area Above De Beers	1	New	500 x 350	Swan Neck	N/A	597l/s	16Pa
L5	Roof top Plant Area Above De Beers	1	New	750 x 250	Swan Neck	N/A	501l/s	14Pa
L6	Roof top Plant Area Above De Beers	1	New	200 dia	Swan Neck	N/A	96l/s	7Pa
L7	Above BoH Door on Half Moon Street	1	Existing	1100 x 1200 (TBC)	Existing Large Format Recessed Louvre (TBC)	Louvre Size TBC	4535l/s	90Pa
L1, L2 & L3 & L7 As Existing - FORMAT OF LOUVRES / SIZE / FREE AREA ETC TO BE CONFIRMED. Allowed in fan sizing as noted above TBC								

Volume Control Damper Schedule										
Branch Position	Room Name / Position	Qty	Duct Size	Supply / Extract	Volume Flow Rate	Length	Height	Depth	Pressure Loss	Manufacturers Reference
Basement & Ground Floor System - Supply (Left Side) HRU1										
FAI to HRU1	Basement Corridor	1	500 x 350	FAI	597l/s	550	425	70	1 Pa	500 x 350 - S900BB - - Lockable Plastic Handle
To S21	Staff room	1	250 dia	Supply	128l/s	324	324	70	1 Pa	250 dia - S900BC - - Lockable Plastic Handle
To S22	Storage	1	125 dia	Supply	15l/s	199	199	70	1 Pa	125 dia - S900BC - - Lockable Plastic Handle
To S23	BoH Corridor	1	150 dia	Supply	30l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
To S24	Admin Office	1	150 dia	Supply	45l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
To S25, S26 & S27		1	200 dia	Supply	81l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
To S25	Managers Office	1	150 dia	Supply	36l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
To S26 & S27		1	150 dia	Supply	45l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
To S26	Eventing Room	1	125 dia	Supply	15l/s	199	199	70	1 Pa	125 dia - S900BC - - Lockable Plastic Handle
To S27	Adjustment Room	1	150 dia	Supply	30l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
To AC17, AC18, AC19 & S20	BoH Circulation	1	400 x 325	Supply	356l/s	450	400	70	1 Pa	400 x 325 - S900BB - - Lockable Plastic Handle
To AC17	BoH Circulation	1	200 dia	Supply	86l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
To AC18	Basement Corridor	1	200 dia	Supply	87l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
To AC19	Vanity Room	1	200 dia	Supply	87l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
To S20	Vanity Room	1	224 dia	Supply	96l/s	298	298	70	1 Pa	224 dia - S900BC - - Lockable Plastic Handle
Basement & Ground Floor System - Extract (Left Side) HRU1										
From E20	Grd Floor / BoH Circulation	1	375 x 250	Extract	260l/s	425	325	70	1 Pa	375 x 250 - S900BB - - Lockable Plastic Handle
From E25	BoH Circulation	1	224 dia	Extract	111l/s	298	298	70	1 Pa	224 dia - S900BC - - Lockable Plastic Handle
From E24	Admin Office	1	200 dia	Extract	60l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
From E23	Staff Room	1	200 dia	Extract	70l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
Exhaust from HRU1	BoH Toilets	1	750 x 250	Exhaust	501l/s	800	325	70	1 Pa	750 x 250 - S900BB - - Lockable Plastic Handle
Basement - Toilet Extract (Left Side) F1										
From E26	Toilet	1	125 dia	Extract	22l/s	199	199	70	1 Pa	125 dia - S900BC - - Lockable Plastic Handle
From E27	Toilet	1	125 dia	Extract	22l/s	199	199	70	1 Pa	125 dia - S900BC - - Lockable Plastic Handle
From E28	Toilet	1	125 dia	Extract	22l/s	199	199	70	1 Pa	125 dia - S900BC - - Lockable Plastic Handle
From E22	Vanity Room	1	125 dia	Extract	30l/s	199	199	70	1 Pa	125 dia - S900BC - - Lockable Plastic Handle
Main Extract F1	Toilet	1	200 dia	Extract	96l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
As Manufactured by HVC or equal										
Access panels shall be fitted either upstream or down stream of all volume control dampers										

Volume Control Damper Schedule										
Branch Position	Room Name / Position	Qty	Duct Size	Supply / Extract	Volume Flow Rate	Length	Height	Depth	Pressure Loss	Manufacturers Reference
Basement (Bar) System - Supply (Right Side) HRU2										
FAI to HRU2	Ground Floor BoH Corridor	1	350 x 350	FAI	310l/s	400	425	70	1 Pa	350 x 350 - S900BB - - Lockable Plastic Handle
To S28	Basement Cylinder Room	1	350 x 350	Supply	225l/s	400	425	70	1 Pa	350 x 350 - S900BB - - Lockable Plastic Handle
To AC2 / S2	Basement Cylinder Room	1	200 dia	Supply	85l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
Basement (Bar) System - Extract (Right Side) HRU2										
Exhaust from HRU2	Ground Floor BoH Corridor	1	350 x 350	Exhaust	234l/s	400	425	70	1 Pa	350 x 350 - S900BB - - Lockable Plastic Handle
Transfer to HRU4 from 2	Ground Floor BoH Corridor	1	200 x 200	Transfer	20l/s	250	275	70	1 Pa	200 x 200 - S900BB - - Lockable Plastic Handle
Basement - Toilet Extract & FoH Toilet Extract (Right Side) F2										
From E33	Customer Accessible Toilet	1	100 dia	Extract	17l/s	174	174	70	1 Pa	100 dia - S900BC - - Lockable Plastic Handle
Customer Toilets	Via Valve adjustment only	3	N/A	Extract	13l/s	N/A	N/A	N/A	N/A	Via Valve adjustment only
From E33 to E36	Cloakroom	1	200 dia	Extract	56l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
From E37	FoH Accessible Toilet	1	100 dia	Extract	15l/s	174	174	70	1 Pa	100 dia - S900BC - - Lockable Plastic Handle
Exhaust from F2	BoH Corridor	1	200 dia	Exhaust	71l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
Basement (CEA, Cloakroom & After Sales System - Supply (Right Side) HRU3										
FAI to HRU3	Cloakroom	1	250 dia	FAI	145l/s	324	324	70	1 Pa	250 dia - S900BC - - Lockable Plastic Handle
To S29	After Sales	1	200 dia	Supply	70l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
To S30 & S31	CEA	1	200 dia	Supply	75l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
To S30	CEA	1	150 dia	Supply	45l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
To S31	Cloakroom	1	150 dia	Supply	30l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
Basement (CEA, Cloakroom & After Sales System - Extract (Right Side) HRU3										
From E6	After Sales	1	200 dia	Extract	70l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
From E30	CEA	1	150 dia	Extract	30l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
From E31	Cloakroom	1	150 dia	Extract	30l/s	224	224	70	1 Pa	150 dia - S900BC - - Lockable Plastic Handle
From E29	Cleaners	1	100 dia	Extract	15l/s	174	174	70	1 Pa	100 dia - S900BC - - Lockable Plastic Handle
From E29, E30 & E31	CEA	1	200 dia	Extract	75l/s	274	274	70	1 Pa	200 dia - S900BC - - Lockable Plastic Handle
Exhaust from HRU3	Cloakroom	1	250 dia	Exhaust	145l/s	324	324	70	1 Pa	250 dia - S900BC - - Lockable Plastic Handle
As Manufactured by HVC or equal										
Access panels shall be fitted either upstream or down stream of all volume control dampers										

C3016-SCH-M09 VCDs

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

[illegible]

C3016-SCH-M10 Fire Dampers

Rev A 31st August

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Fire Damper Schedule											
Ref	Branch Position / Room	Qty	Duct Size	Supply / Extract	Volume Flow Rate	Length	Height	Depth	Overall Size with Frame	Pressure Loss	Manufacturers Reference
Basement & Ground Floor System - Supply (Left Side) HRU1											
FD1	Ground Floor to Basement Corridor	1	500 x 350	FAI	597l/s	550	425	72	650 x 525	2Pa	500x350/S100BGP/ 3/ 72-1/ N/ 1
FD2	Storage to BoH Corridor	1	750 x 300	Supply	512l/s	824	374	125	924 x 474	2Pa	750x300/S700BGP/BP230-TN (Left Side TBC)
FD3	BoH Corridor to Admin Office	1	150 dia	Supply	45l/s	380	-	-	294 x 294	1Pa	150 dia Series 400A / BFL230-T / - / MS /
FD4	BoH Corridor to BoH Circulation	1	650 x 225	Supply	437l/s	724	299	125	824 x 399	2Pa	650x225/S700BGP/BP230-TN (Left Side TBC)
FD5	BoH Circulation to Ground Floor	1	200 dia	Supply	86l/s	250	275	72	350 x 375	1Pa	Series 100 / C / 200 / G/ P/ 3/ 72-1/ N/ 1
FD6	Basement Corridor to Ground Floor	1	200 dia	Supply	87l/s	250	275	72	350 x 375	1Pa	Series 100 / C / 200 / G/ P/ 3/ 72-1/ N/ 1
FD7	Vanity to Ground Floor	1	200 dia	Supply	87l/s	250	275	72	350 x 375	1Pa	Series 100 / C / 200 / G/ P/ 3/ 72-1/ N/ 1
Basement & Ground Floor System - Extract (Left Side) HRU1											
FD8	FoH Lobby to Basement Circulation	1	375 x 250	Extract	260l/s	425	325	72	525 x 425	2Pa	375x250/S100BGP/ 3/ 72-1/ N/ 1
FD9	Staff Room to BoH Corridor	1	200 dia	Extract	70l/s	380	-	-	344 x 344	1Pa	200 dia Series 400A / BFL230-T / - / MS /
FD10	BoH Corridor to Storage	1	200 dia	Extract	70l/s	380	-	-	344 x 344	1Pa	200 dia Series 400A / BFL230-T / - / MS /
FD11a	Vanity Room to Ground Floor	1	750 x 250	Exhaust	501l/s	800	325.000	72	900 x 425	2Pa	750x250/S100BGP/ 3/ 72-1/ N/ 1
FD11b	TG1 to TG2 BoH Corridor to Server	1	150 dia	Supply	30l/s	380	-	-	294 x 294	1Pa	150 dia Series 400A / BFL230-T / - / MS /
Basement - Toilet Extract (Left Side) F1											
FD12	Vanity Room to Ground Floor	1	200 dia	Extract	96l/s	250	275	72	350 x 375	1Pa	Series 100 / C / 200 / G/ P/ 3/ 72-1/ N/ 1
Basement (Bar) System - Supply (Right Side) HRU2											
FD13	FAI Riser Ground Floor to Basement	1	350 x 350	FAI	340l/s	400	425	72	500 x 525	2Pa	350x350/S100BGP/ 3/ 72-1/ N/ 1
FD14	FAI Customer Toilet to Circulation	1	350 x 350	FAI	340l/s	424	424	125	524 x 524	2Pa	350x300/S700BGP/BP230-TN (Left Side TBC)
FD15	FAI Circulation to BoH Corridor	1	350 x 350	FAI	340l/s	424	424	125	524 x 524	2Pa	350x300/S700BGP/BP230-TN (Left Side TBC)
FD16	Supply Ground Floor to Basement	1	350 x 350	Supply	340l/s	400	425	72	500 x 525	2Pa	350x350/S100BGP/ 3/ 72-1/ N/ 1
FD17	To S28 Cylinder Room to Fope	1	750 x 200	Supply	255l/s	824	274	125	924 x 374	2Pa	750x200/S700BGP/BP230-TN (Left Side TBC)
FD18	To AC2 Cylinder Room to BoH Corr	1	200 dia	Supply	85l/s	380	-	-	344 x 344	1Pa	200 dia Series 400A / BFL230-T / - / MS /
FD19	BoH Corridor to AC2 / S2	1	200 dia	Supply	85l/s	380	-	-	344 x 344	1Pa	200 dia Series 400A / BFL230-T / - / MS /
FD1, FD5 to FD8, FD11 to FD13, FD16, FD23, FD31, FD34, FD37 FD42 & FD47 As manufactured by HVC (E Rated)											
FD2 to FD4, FD9 & FD10, FD14 & FD15, FD17 to FD22, FD24 to FD30, FD32 & FD33, FD35 & FD36, FD38 to FD41, FD43 to 46, FD48 & FD49 As manufactured by HVC (ES Rated)											
Access panels shall be fitted either side of all fire dampers. Check fixing frame required - reference includes for plate frame. FIRE WALLS & REQUIRED RATING TBC											

C3016-SCH-M10 Fire Dampers

Rev A 31st August

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Fire Damper Schedule											
Ref	Branch Position / Room	Qty	Duct Size	Supply / Extract	Volume Flow Rate	Length	Height	Depth	Overall Size with Frame	Pressure Loss	Manufacturers Reference
Basement (Bar) System - Extract (Right Side) HRU2											
FD20	Transfer TG14 Bar Area to TG15	1	900 x 200	Extract	310l/s	974	274	125	1074 x 374	2Pa	900x200/S700BGP/BP230-TN (Left Side TBC)
FD21	Transfer TG16 to BoH Corridor	1	250 x 500	Extract	234l/s	324	574	125	424 x 674	2Pa	250x500/S700BGP/BP230-TN (Left Side TBC)
FD22	BoH Corridor to Cylinder Room	1	350 x 350	Extract	234l/s	424	424	125	524 x 524	2Pa	350x300/S700BGP/BP230-TN (Left Side TBC)
FD23	Basement to Ground Floor	1	350 x 350	Extract	234l/s	400	425	72	500 x 525	2Pa	350x350/S100BGP/ 3/ 72-1/ N/ 1
FD24	Circulation to Transfer TG17	1	200 x 200	Transfer	20l/s	274	274	125	374 x 374	2Pa	200x200/S700BGP/BP230-TN (Left Side TBC)
FD25	Transfer TG18 to TG19	1	200 x 200	Transfer	20l/s	274	274	125	374 x 374	2Pa	200x200/S700BGP/BP230-TN (Left Side TBC)
FD26	Transfer TG20 to FoH Toilet	1	200 x 200	Transfer	20l/s	274	274	125	374 x 374	2Pa	200x200/S700BGP/BP230-TN (Left Side TBC)
Basement - Toilet Extract & FoH Toilet Extract (Right Side) F2											
FD27	Cloakroom to Circulation	1	200 dia	Extract	56l/s	380	-	-	344 x 344	1Pa	200 dia Series 400A / BFL230-T / - / MS /
FD28	Circulation to BoH Corridor (Ground)	1	200 dia	Extract	56l/s	380	-	-	344 x 344	1Pa	200 dia Series 400A / BFL230-T / - / MS /
FD29	FoH Toilet to BoH Corridor	1	100 dia	Extract	15l/s	380	-	-	244 x 244	1Pa	100 dia Series 400A / BFL230-T / - / MS /
FD30	BoH Corridor (Ground) to FoH Toilet	1	200 dia	Exhaust	71l/s	380	-	-	344 x 344	1Pa	200 dia Series 400A / BFL230-T / - / MS /
Basement (CEA, Cloakroom & After Sales System - Supply (Right Side) HRU3											
FD31	FAI Ground to Basement	1	250 dia	FAI	145l/s	300	325	72	400 x 425	1Pa	Series 100 / C / 250 / G/ P/ 3/ 72-1/ N/ 1
FD32	Cloakroom to Circulation	1	250 dia	FAI	145l/s	380	-	-	394 x 394	1Pa	250 dia Series 400A / BFLN230-T / - / MS /
FD33	Circulation to CEA	1	250 dia	FAI	145l/s	380	-	-	394 x 394	1Pa	250 dia Series 400A / BFLN230-T / - / MS /
FD34	CEA to Bar	1	200 dia	Supply	70l/s	250	275	72	350 x 375	1Pa	Series 100 / C / 200 / G/ P/ 3/ 72-1/ N/ 1
FD35	CEA to Circulation	1	150 dia	Supply	30l/s	380	-	-	294 x 294	1Pa	150 dia Series 400A / BFL230-T / - / MS /
FD36	Circulation to Cloakroom	1	150 dia	Supply	30l/s	380	-	-	294 x 294	1Pa	150 dia Series 400A / BFL230-T / - / MS /
FD1, FD5 to FD8, FD11 to FD13, FD16, FD23, FD31, FD34, FD37 FD42 & FD47 As manufactured by HVC (E Rated)											
FD2 to FD4, FD9 & FD10, FD14 & FD15, FD17 to FD22, FD24 to FD30, FD32 & FD33, FD35 & FD36, FD38 to FD41, FD43 to 46, FD48 & FD49 As manufactured by HVC (ES Rated)											
Access panels shall be fitted either side of all fire dampers. Check fixing frame required - reference includes for plate frame. FIRE WALLS & REQUIRED RATING TBC											

C3016-SCH-M10 Fire Dampers

Rev A 31st August

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Fire Damper Schedule											
Ref	Branch Position / Room	Qty	Duct Size	Supply / Extract	Volume Flow Rate	Length	Height	Depth	Overall Size with Frame	Pressure Loss	Manufacturers Reference
Basement (CEA, Cloakroom & After Sales) System - Extract (Right Side) HRU3											
FD37	After Sales To CEA	1	200 dia	Extract	70l/s	250	275	72	350 x 375	1Pa	Series 100 / C / 200 / G/ P/ 3/ 72-1/ N/ 1
FD38	Cloakroom to Circulation	1	150 dia	Extract	30l/s	380	-	-	294 x 294	1Pa	150 dia Series 400A / BFL230-T / - / MS /
FD39	Circulation to CEA	1	150 dia	Extract	30l/s	380	-	-	294 x 294	1Pa	150 dia Series 400A / BFL230-T / - / MS /
FD40	CEA to Circulation	1	250 dia	Exhaust	145l/s	380	-	-	394 x 394	1Pa	250 dia Series 400A / BFLN230-T / - / MS /
FD41	Circulation to Cloakroom	1	250 dia	Exhaust	145l/s	380	-	-	394 x 394	1Pa	250 dia Series 400A / BFLN230-T / - / MS /
FD42	Exhaust Basement to Ground	1	250 dia	Exhaust	145l/s	300	325	72	400 x 425	1Pa	Series 100 / C / 250 / G/ P/ 3/ 72-1/ N/ 1
Ground Floor (Retail) System - Supply (Right Side) HRU4											
FD43	FoH Toilet to BoH Corridor	1	315 dia	Supply	160l/s	380	-	-	459 x 459	1Pa	315 dia Series 400A / BFLN230-T / - / MS /
FD44	BoH Corridor to BoH Stairs	1	315 dia	Supply	160l/s	380	-	-	459 x 459	1Pa	315 dia Series 400A / BFLN230-T / - / MS /
FD45	BoH Stairs to Mappin & webb	1	600 x 200	Supply	130l/s	674	274	125	774 x 374	2Pa	600x200/S700BGP/BP230-TN (Left Side TBC)
FD46	BoH Stairs to Estate Jewellery	1	150 dia	Supply	30l/s	380	-	-	294 x 294	1Pa	150 dia Series 400A / BFL230-T / - / MS /
FD47	Plant Area to Mappin & Webb Small	1	100 dia	Supply	15l/s	150	150	72	250 x 250	1Pa	Series 100 / C / 100 / G/ P/ 3/ 72-1/ N/ 1
FD48	Plant Area to Fred	1	400 x 200	Supply	85l/s	474	274	125	574 x 374	2Pa	400x200/S700BGP/BP230-TN (Left Side TBC)
Ground Floor (Retail) System - Extract (Right Side) HRU4											
FD49	Fope to Plant Area	1	400 x 200	Extract	215l/s	474	274	125	574 x 374	2Pa	400x200/S700BGP/BP230-TN (Left Side TBC)
FD1, FD5 to FD8, FD11 to FD13, FD16, FD23, FD31, FD34, FD37 FD42 & FD47 As manufactured by HVC (E Rated)											
FD2 to FD4, FD9 & FD10, FD14 & FD15, FD17 to FD22, FD24 to FD30, FD32 & FD33, FD35 & FD36, FD38 to FD41, FD43 to 46, FD48 & FD49 As manufactured by HVC (ES Rated)											
Access panels shall be fitted either side of all fire dampers. Check fixing frame required - reference includes for plate frame. FIRE WALLS & REQUIRED RATING TBC											

C3050-SCH-M11 Electric Heater

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Electric Panel Heaters											
Ref	Room Name	Qty	Type	Heat Output Watts	Length mm	Depth mm	Height mm	Manufacturers Reference	Controls	V	Weight kg
	Basement										
	LEFT HAND SIDE										
EH1	Vanity Room	1	Panel Heater	1500	690	108	430	PLX150E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH2	BoH Toilet	1	Panel Heater	1250	690	108	430	PLX125E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH3a EH3b	BoH Corridor (Left)	2	Panel Heater	1500	690	108	430	PLX150E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH4	Storage	1	Panel Heater	1500	690	108	430	PLX150E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH5	BoH Circulation (Left)	1	Panel Heater	3000	860	143	430	PLX300E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	8.7
EH6	Eventing Room	1	Panel Heater	1000	620	108	430	PLX100E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	5.9
EH7	Adjustment Room	1	Panel Heater	1000	620	108	430	PLX100E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	5.9
	RIGHT HAND SIDE										
EH8	CEA	1	Panel Heater	1500	690	108	430	PLX150E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH9	Cloakroom	1	Panel Heater	1500	690	108	430	PLX150E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH10	Customer Toilets	1	Panel Heater	1250	690	108	430	PLX125E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH11	Customer Acc Toilet	1	Low Surface Temperature Panel Heater	500	690	108	470	LST050E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	8.76
EH12	BoH Corridor / Stairs (RH) Adj to Cyl Room	1	Panel Heater	1500	690	108	430	PLX150E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
All other areas internal / nominal heat loss											
Radiant Heater as manufactured by B N Thermic, Panel Heaters as manufactured by Dimplex or equal .											

C3050-SCH-M11 Electric Heater

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Electric Panel Heaters											
Ref	Room Name	Qty	Type	Heat Output Watts	Length mm	Depth mm	Height mm	Manufacturers Reference	Controls	V	Weight kg
EH13	FoH Lift Lobby		Low Surface Temperature Panel Heater	500	690	108	470	LST050E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	8.76
EH14	FoH Circultaion	1	Low Surface Temperature Panel Heater	1000	690	108	470	LST100E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	8.76
EH15	BoH Stairs (RH) Adjacent to CEA	1	Panel Heater	1500	690	108	430	PLX150E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
	Ground Floor										
EH16	FoH Lobby	1	Low Surface Temperature Panel Heater	750	690	108	470	LST075E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	8.76
EH17	FoH Toilet	1	Low Surface Temperature Panel Heater	500	690	108	470	LST050E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	8.76
EH18	CEA	1	Panel Heater	1000	620	108	430	PLX100E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	5.9
EH19	BoH Corridor	1	Panel Heater	1250	690	108	430	PLX125E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	6.1
EH20	BoH Corridor / Stairs (RH) Adjacent to Fope	1	Panel Heater	2000	860	108	430	PLX200E	Shall be temperature & time controlled with the heaters' inbuilt digital electronic thermostat & 7 day programmable user timer.	230	7.8
All other areas internal / nominal heat loss											
Radiant Heater as manufactured by B N Thermic, Panel Heaters as manufactured by Dimplex or equal .											

C3016-SCH-M12a Water Heater

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Water Heater Schedule													
Ref	Room	Qty	Type	Manufacturers Reference	O/A Height	Width	Depth	Capacity	Weight	kW	V	Product Code	Accessories
WH1	Staff Room	1	Unvented Multipoint	Zip Aquapoint 3	480	350	310	15 litre	N/A	2	230	AP3/15/	Pack AQ1, AQ2 & if pressure > 4.0 bar AQ3
WH2	BoH Toilets	1	Unvented Multipoint	Zip Aquapoint 3	480	350	310	15 litre	N/A	2	230	AP3/15/	Pack AQ1, AQ2 & if pressure > 4.0 bar AQ3
WH3	BoH Toilets	1	Unvented Multipoint	Zip Aquapoint 3	480	350	265	10 litre	N/A	2	230	AP3/10/	Pack AQ1, & AQ3
WH4	Bar Area	1	Instantaneous	Zip in line electronic	312	177	108	N/A	N/A	8.8	230	CEX-U	As supplied with water heater
As manufactured by Zip *****BAR AREA TBC*****													

C3016-SCH-M12b Cylinder

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Indirect Storage Cylinder Schedule							
Qty	Equipment	Storage	Height	Diameter	Immersion Heater	Voltage	Phase
1	Heatrae Sadia Megaflo 210DD	210litres	1384	579	2No 3kW	230v	Single
Thermal Insulation - CFC-free fire retardant expanded polyurethane (60mm Thick)							
Connections 22mm Compression / 3/4" BSP. c/w all required safety equipment.							
White Cased Finish. Duplex SS water container							
As manufactured by HeatraeSadia							

C3016-SCH-M13 Pumps

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Circulating Pump Schedule										
Reference	System	Type	Pump control / Speed Setting	Manufacturers Reference	Duty Kg/s @ kPa	Inlet Connection	Outlet Connection	Volts	Power kW (max)	Htz
P1	Domestic Hot Water return to Cylinder	Secondary Circulation	7.779 watts	Alpha 1 25-40 N 130	0.068 @ 17kPa	G11/2"	G11/2"	230v	18	50
As manufactured by Grundfos										

C3016-SCH-M14a Magnetic Condit

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Magnetic Water Conditioning Schedule										
Position	Model No	Qty	Compression Fittings x2	Diameter of casing	Length	Overall Length	Cut out section	Maximum Flow Rate	Maximum Pressure	Casing
MCWS to Water Heaters (Single Sink / Wash Basins)	LBC15	4	15mm	22mm	219mm	262mm	230mm	0.45l/s	10 bar	Copper
As manufactured by BWT Ltd or equal										

C3016-SCH-M14b Water Cond

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Water Conditioning									
Position	Model No	Compression Fittings x2	Diameter of casing	Length	Overall Length	Cut out section	Maximum Flow Rate	Maximum Pressure	Electrical
MCWS to Cylinder	Liff Wrappa LW2	N/A	N/A	N/A	N/A	N/A	0.8l/s	N/A	230v 3A 3w
As manufactured by Liff Industries Ltd									

C3016-SCH-M15 Blending Valves

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Blending Valve Schedule							
Ref	System / Position	Qty	Pipe Size	Flow Rate Mixed kg/s	Valve Size	Hydraulic Resistance	Manufacturers Reference
BV	Toilet WHB	7	15mm	0.100	15	10.0 kPa	Pegler 402U
BV	Accessible Toilet WHB	2	15mm	0.100	15	10.0 kPa	402U or As Supplied with DOC M Pack
As Manufactured by Pegler or Equal							
Note: All other items of Sanitary Ware i.e Sinks, Cleaners Sinks, etc. supplied with hot water, and not fitted with a blending valve shall have a warning sign fitted above the item							

C3016-SCH-M16 Flow Restrictor

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

FLOW RESTRICTOR VALVE - APPLIANCE ISOLATING (WAT01)							
System / Position	Qty	Pipe Size	Flow Rate Litres / min	Restrictor Cartridge Colour	Trade Name	Manufacturers Reference	WAT01 Flow l/s/min
Toilet Wash Hand Basin	18	15mm	2.5	Green	Wondervalue	CP961-R-2.5-X-C-15	N/A
Sinks	4	15mm	6.0	Black	Wondervalue	CP961-R-06-X-C-15	N/A
Bar Sink	2	15mm	6.0	Black	Wondervalue	CP961-R-06-X-C-15	N/A
Bar Hand Wash	2	15mm	2.5	Green	Wondervalue	CP961-R-2.5-X-C-15	N/A
Cleaners Sinks	2	15mm	12.0	Red	Wondervalue	CP961-R-12-X-C-15	N/A
Install on Hot & Cold supplies to restrict flow rates for water efficiency							
As manufactured by Cottam & Preedy - Tel 08000825837, www.wondervalue.com							

C3016-SCH-M17 Valves (General)

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Valves (General)						
Ref	System / Position	Pipe Size	Valve Size	KV	Type	Manufacturers Reference
IV	Hot & Cold Water General - Compression	42	42	200	Ball Valve	Pegler PB300
IV	Hot & Cold Water General - Compression	35	35	121	Ball Valve	Pegler PB300
IV	Hot & Cold Water General - Compression	28	28	70	Ball Valve	Pegler PB300
IV	Hot & Cold Water General - Compression	22	22	41	Ball Valve	Pegler PB300
IV	Hot & Cold Water General - Compression	15	15	17	Ball Valve	Pegler PB300
DOC	CWS, Hot & Cold Water General	15	15	N/A	Drain off Cock	Pegler 833GMLS
DCV	MCWS - Compression	42	11/2"	-	Double Check Valve	RWC Flow 230009
DCV	MCWS - Compression	35	11/4"	-	Double Check Valve	RWC Flow 230008
DCV	MCWS - Compression	15	15	-	Double Check Valve	RWC Flow 230002
NRV	MCWS to Cylinder - Compression	35	35	-	Check Valve	RWC Flow 235004
NRV	MCWS - Compression	22	22	-	Check Valve	RWC Flow 235002
NRV	MCWS & HWSR - Compression	15	15	-	Check Valve	RWC Flow 235001
IV	Dish Washer	15	15 / 3/4"	-	Washing Machine Valve	Pegler 809
WB	Fridge Freezer / Ice Machine & Drinks Machine	15	3/4"BSP F / M	-	WaterBlock	Eltek HE100041.06

C3016-SCH-M18 Solenoid Valves

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Mains Cold Water - Unoccupied Shut Off Valve Schedule			
Qty	Location	Ref	Description
1	Incoming Mains Cold Water	V1500ZLNO	1.50"/40mm Solenoid Valve (240V) (Normally Open)
As manufactured by Aqua Leak Tel 01249 715698 or equal. - Controlled via Security Alarm Panel with Aqua Leak Alarm Interface ISP01 When alarm armed solenoid energised - valve closed			

C3016-SCH-M19 DRVs

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Double Regulating Valves								
Ref	System / Position	Qty	Pipe Size	Valve Size	Flow Rate kg/s	Hydraulic Resistance	Type	Manufacturers Reference
DRV1	Secondary Return (Adj to Cylinder)	1	15	15	0.068	4.20kPa	Double Regulating	Art 26L
DRV2	Secondary Return (Acc Toilet)	1	15	15	0.010	1.20kPa	Double Regulating	Art 26L
DRV3	Secondary Return (Customer Toilet to 1No WHB)	1	15	15	0.006	0.40kPa	Double Regulating	Art 26L
DRV4	Secondary Return (Customer Toilet to 2No WHB)	1	15	15	0.012	0.80kPa	Double Regulating	Art 26L
DRV5	Secondary Return (Customer Toilet to 1No WHB)	1	15	15	0.007	0.50kPa	Double Regulating	Art 26L
DRV6	Secondary Return (CEA)	1	15	15	0.013	0.92kPa	Double Regulating	Art 26L
DRV7	Secondary Return (Cleaners Cupboard)	1	15	15	0.020	1.90kPa	Double Regulating	Art 26L
As manufactured by Albion Valves UK Ltd								

C3016-SCH-M20 Sanitaryware

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Generic Sanitaryware & Brassware Schedule					
Item	Location	Qty	Reference / Type	WAT01	Brassware
As M & W Spec	Hospitality		Supplied and Fitted by Bar Fitter		Supplied and Fitted by Bar Fitter
As JPA Spec	Basement CEA		As per Johnson Pinney Architects Spec or equal and approved		As per Johnson Pinney Architects Spec or equal and approved
As JPA Spec	Customer Toilets		As per Johnson Pinney Architects Spec or equal and approved	See Flow Restrictors	As per Johnson Pinney Architects Spec or equal and approved
As JPA Spec	Customer Accessible Toilet		As per Johnson Pinney Architects Spec or equal and approved	See Flow Restrictors	As per Johnson Pinney Architects Spec or equal and approved
As JPA Spec	Staff Toilets		As per Johnson Pinney Architects Spec or equal and approved	See Flow Restrictors	As per Johnson Pinney Architects Spec or equal and approved
As JPA Spec	Staff Room		As per Johnson Pinney Architects Spec or equal and approved		As per Johnson Pinney Architects Spec or equal and approved
As JPA Spec	Ground Floor CEA		As per Johnson Pinney Architects Spec or equal and approved		As per Johnson Pinney Architects Spec or equal and approved
As JPA Spec	FOH Customer Accessible Toilet		As per Johnson Pinney Architects Spec or equal and approved	See Flow Restrictors	As per Johnson Pinney Architects Spec or equal and approved
Refer to Johnson Pinney Architects Equipment Schedule: 1357-06-200 to 210 or equal and approved					

C3016-SCH-M21 Macerator

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Macerator Schedule													
Ref	Manufacturers Reference	Location / Serving	Qty	Length	Depth	Height	Discharge Top	Entry Pipework Side	Entry Pipework Side	Entry Pipework Top	Max Lift Max Horizontal	Volts	Power
M1	Sanispeed +	Safe Room / CEA	1	368mm	189mm	340mm	1No 32mm Connection	-	2No 40mm	2No 40mm	4m / 40m	230v	400w
M2	Sanibest Pro	Disabled Toilet	1	508mm	210mm	350mm	1No 32mm Connection	1No 100mm	2No 40mm	1No 40mm	4m / 80m	230v	1100w
M3	Sanibest Pro	Disabled Toilet	1	508mm	210mm	350mm	1No 32mm Connection	1No 100mm	2No 40mm	1No 40mm	4m / 80m	230v	1100w
M4	Sanibest Pro	Disabled Toilet	1	508mm	210mm	350mm	1No 32mm Connection	1No 100mm	2No 40mm	1No 40mm	4m / 80m	230v	1100w
M5	Sanispeed +	CEA & Cleaners Cupboard	1	368mm	189mm	340mm	1No 32mm Connection	-	2No 40mm	2No 40mm	4m / 40m	230v	400w
As Manufactured By Saniflo Ltd													

C3016-SCH-M22 Coffee Filter

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

Ground Coffee Machine Waste Filter										
Ref	Manufacturers Reference	Location / Serving	Qty	Length	Depth	Height	Access	Entry Connection Side	Discharge Connection Side	Drain Connection Bottom
N/A	ST2 Food Guardian - Coffee Filter Version	Bar Area Coffee Machine	1	125 dia	N/A	235	Top 135mm Clearance	16 / 20	16 / 20	No
N/A	ST8 Food Guardian - Coffee Filter Version	Bar Area Sink	1	300	300	400	Top 250mm Clearance	60.1	60.1	Yes
As manufactured by FM Environmental Ltd - TO BE CONFIRMED										

C3016-SCH-M23 Builderswork

Rev A 31st August

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

BUILDERSWORK FOR MECHANICAL SERVICES									
Hole Required	Hole Ref	Reference	Hole Qty	Item	Nominal Size	Hole Size Dia	Hole Size Width	Hole Size Height / Length	Notes
✓	A	S1 to S19, S28, S32, S34 & E20	23	Flobar Slot Diffusers	Plaster finish type final sizes to be confirmed / as per manufacturers instructions				Walls
✓	B	E1a to E19b, E21, & S29	29	Slot formed in wall	Final size to be confirmed / refer to drawing number C3016-24-M-6.1				Walls
✓	C	E33 & E39	2	Hole in upstand	100mm	110mm	-	-	Walls / upstand
✓	D	Access	19	AC Units behind walls	-	-	600mm	600mm	Walls
✓	E	Rectangular Ducts	18	Rectangular Ducts	-	-	Overall + 10mm	Overall + 10mm	Roof / Floor / Wall
✓	F	Circular Duct	2	315 dia Circular Duct	315mm	325mm	-	-	Wall
✓	G	Circular Duct	8	250 dia Circular Duct	250mm	260mm	-	-	Wall
☒	H	Circular Duct	0	224 dia Circular Duct	224mm	234mm	-	-	Wall
✓	I	Circular Duct	13	200 dia Circular Duct	200mm	210mm	-	-	Roof / Floor / Wall
✓	J	Circular Duct	4	150 dia Circular Duct	150mm	160mm	-	-	Wall
✓	K	Circular Duct	3	125 dia Circular Duct	125mm	135mm	-	-	Wall
✓	L	Circular Duct	2	100 dia Circular Duct	100mm	110mm	-	-	Wall
✓	M	FD20	1	900 x 200 Fire Damper ES Rated (S700)			934mm	234mm	Wall
✓	N	FD2	1	750 x 300 Fire Damper ES Rated (S700)			784mm	334mm	Wall
✓	O	FD17	1	750 x 200 Fire Damper ES Rated (S700)			784mm	234mm	Wall
✓	P	FD4	1	650 x 225 Fire Damper ES Rated (S700)			684mm	259mm	Wall
✓	Q	FD45	1	600 x 200 Fire Damper ES Rated (S700)			634mm	234mm	Wall
✓	R	FD48, FD49	2	400 x 200 Fire Damper ES Rated (S700)			434mm	234mm	Wall
✓	S	FD14, FD15, FD22	3	350 x 300 Fire Damper ES Rated (S700)			384mm	334mm	Wall
✓	T	FD21	1	250 x 500 Fire Damper ES Rated (S700)			284mm	534mm	Wall
✓	U	FD24, FD25, FD26	3	200 x 200 Fire Damper ES Rated (S700)			234mm	234mm	Wall
✓	V	FD43, FD44	2	315 dia Fire Damper ES Rated (S400)	315 dia	-	349mm	349mm	Wall
✓	W	FD32, FD33, FD40, FD41	4	250 dia Fire Damper ES Rated (S400)	250 dia	-	284mm	284mm	Wall
✓	X	FD9, FD10, FD18, FD19, FD27, FD28, FD30	7	200 dia Fire Damper ES Rated (S400)	200 dia	-	234mm	234mm	Floor / Wall
✓	Y	FD3, FD11b, FD35, FD36 FD38, FD39, FD46	7	150 dia Fire Damper ES Rated (S400)	150 dia	-	184mm	184mm	Wall
Note - Hole Sizes refer to finished hole sizes.									

C3016-SCH-M23 Builderswork

Rev A 31st August

C3016 Mappin & Webb, 17 - 21 St Anns Square, Manchester, M2 7PW

BUILDERSWORK FOR MECHANICAL SERVICES									
Hole Required	Hole Ref	Reference	Hole Qty	Item	Nominal Size	Hole Size Dia	Hole Size Width	Hole Size Height / Length	Notes
✓	Z	FD29	1	100 dia Fire Damper ES Rated (S400)	100 dia	-	134mm	134mm	Wall
✓	a	FD11		750 x 250 Fire Damper E Rated (S100)	-	-	815mm	340mm	Wall
✓	b	FD1		500 x 300 Fire Damper E Rated (S100)	-	-	565mm	390mm	Wall
✓	c	FD8		375 x 250 Fire Damper E Rated (S100)	-	-	440mm	340mm	Wall
✓	d	FD13, FD16, FD23		350 x 350 Fire Damper E Rated (S100)	-	-	415mm	440mm	Floor
✓	e	FD31, FD42		250 dia Fire Damper E Rated (S100)	250 dia	-	315mm	340mm	Floor
✓	f	FD5, FD6, FD7, FD12, FD34, FD37		200 dia Fire Damper E Rated (S100)	200 dia	-	265mm	290mm	Wall
✓	g	FD47		100 dia Fire Damper E Rated (S100)	100 dia	-	165mm	165mm	Wall
✓	h	Refrigerant pipe slot	34	Refrigerant pipe slot (1 Pair)	-	-	130mm	70mm	Ceiling & Wall
✓	i	Refrigerant pipe slot	6	Refrigerant pipe slot (2 Pairs)	-	-	180mm	70mm	Wall
✓	j	Refrigerant pipe slot	3	Refrigerant pipe slot (3 Pairs)	-	-	240mm	70mm	Wall
✓	k	Refrigerant pipe slot	2	Refrigerant pipe slot (4 Pairs)	-	-	300mm	70mm	Roof & Floor
☒	l								
☒	m								
☒	n								
☒	o								
☒	p								
☒	q								
Note - Hole Sizes refer to finished hole sizes.									