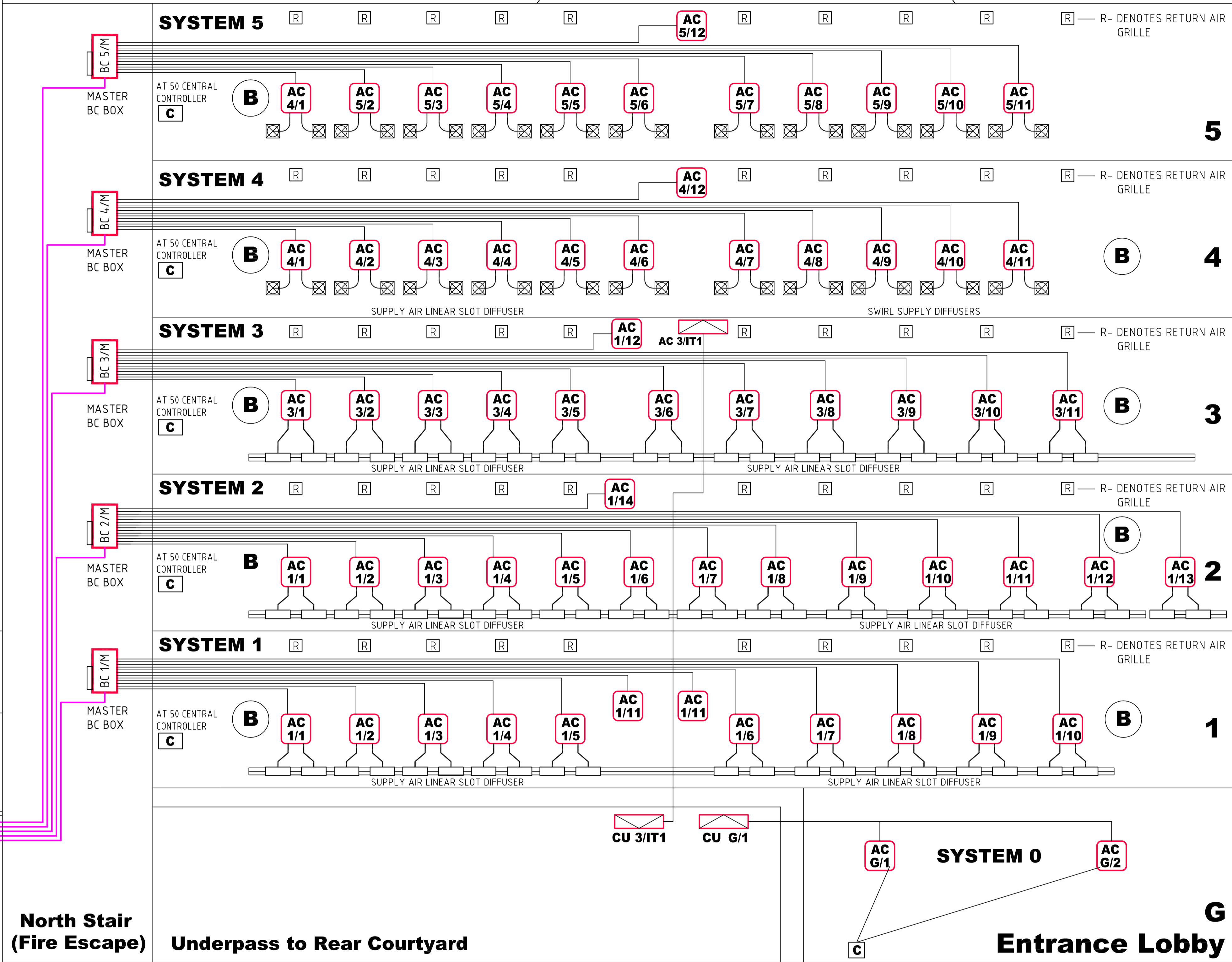


# Roof Plantrooms



# VRF HEATING and COMFORT COOLING SYSTEMS

## DESCRIPTION OF WORKS

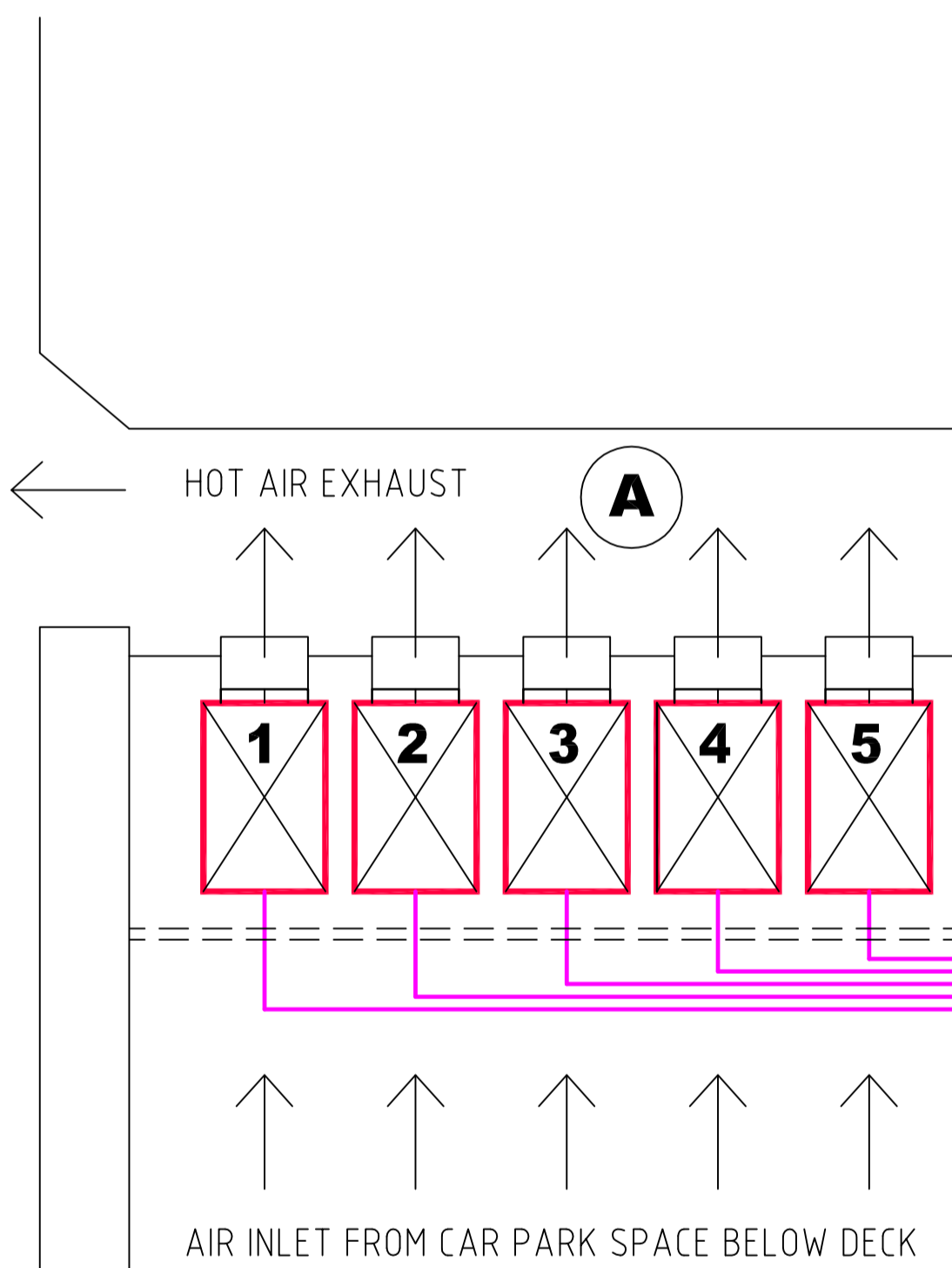
**A** EXTERNAL VRF CONDENSER PLANT ON PLANT DECK

5 No. INDEPENDENT SIMULTANEOUS HEATING AND COOLING HEAT RECOVERY VRF SYSTEMS

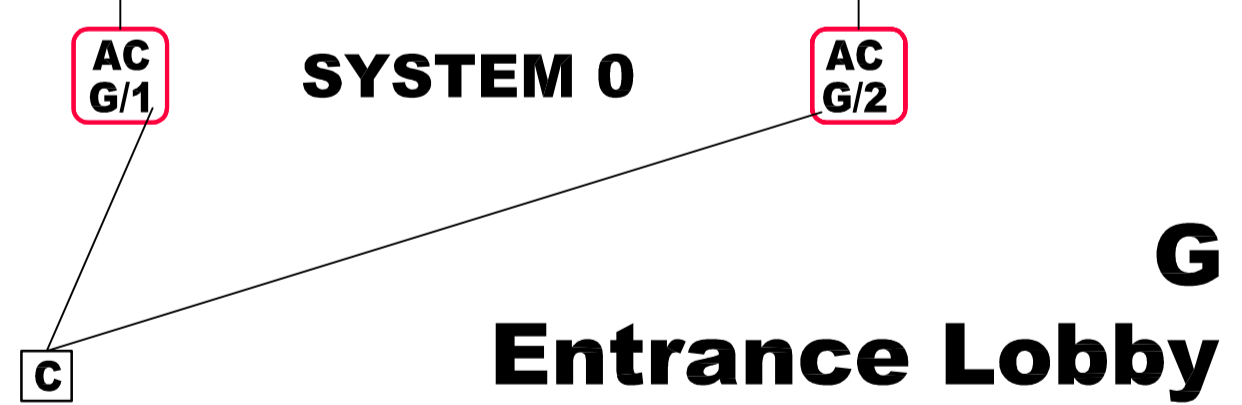
1 x SYSTEM PER FLOOR. EACH FLOOR HAS INDEPENDENT STANDALONE VRF SYSTEM

**B** DUCTED ( OR CASSETTE) TYPE HEATING AND COOLING FAN COIL UNIT IN CEILING VOID

**C** ONE MULTI-SPLIT SYSTEM FOR HEATING & COOLING IN GROUND FLOOR RECEPTION VIA 2 CASSETTE UNITS IN CEILING



North Stair (Fire Escape) Underpass to Rear Courtyard



C	CONTRACT ISSUE	-
T	TENDER ISSUE	-
Rev	Description	Date

client  
PICTON Capital

project manager  
CS2 Ltd

project  
CITY, LONDON EC1N

**MK**  
MK Consulting Engineers Ltd  
Building Services Engineering Design & Draughting  
Tel: 07702 364 607 | Email: mkcad99@aol.com

Drawing Title  
**MECHANICAL SERVICES**  
SCHEMATIC  
VRF SYSTEM LAYOUT

Scale NTS@A1 Drawn AK  
Date - Checked AK

Drawing Number  
**MK/701/SAMPLE** Revision  
C

Drawing Status  
CONTRACT ISSUE

## Plant Schedules

REF	TYPE	SIZE	MODEL	REF	TYPE	SIZE	MODEL
AC 5/1	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 5/7	DUCTED	40	PEFY-P-40 VMS1 ER2
AC 5/2	DUCTED	50	PEFY-P-50 VMS1 ER2	AC 5/8	DUCTED	50	PEFY-P-50 VMS1 ER2
AC 5/3	DUCTED	63	PEFY-P-63 VMS1 ER2	AC 5/9	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 5/4	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 5/10	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 5/5	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 5/11	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 5/6	DUCTED	40	PEFY-P-40 VMS1 ER2	AC 5/12	CASSETTE	20	PLFY-P-20 VCH ER1

REF	FUNCTION	LOCATION	MODEL	Conns	Spare	WT	PHASE	POWER	RC	FUSE	W	D	H	DIMS (mm)
BC 5	MASTER	FIFTH FLOOR	CHB P 106 V GA 1	16	4	62 kg	1ph	0.32 kW	130 A	6A	110	520	289	

**Controls**  
**Central Controller** AT 50A-J TOUCH SCREEN CENTRAL CONTROLLER  
 PAC SC 51 KUA J + POWER SUPPLY  
**Local Controls** 4 No. WALL MOUNTED CONTROLLERS AS INDICATED AS: PAR F27 MEA J

REF	OUTDOOR UNIT MODEL	ELECTRICAL DATA (Amps)	DIMS (mm)	WEIGHT	SOUND	AIRFLOW	COP/VEER
		PH SC RC FUSE	L D H	kg	dBA	L/s	
CU 5	PURY P 350 YH-A	3ph 8 17.5 32	1220 760 1710	270	60	MAX 3750	4.19/3.53

REF	TYPE	SIZE	MODEL	REF	TYPE	SIZE	MODEL
AC 4/1	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 4/7	DUCTED	40	PEFY-P-40 VMS1 ER2
AC 4/2	DUCTED	50	PEFY-P-50 VMS1 ER2	AC 4/8	DUCTED	50	PEFY-P-50 VMS1 ER2
AC 4/3	DUCTED	63	PEFY-P-63 VMS1 ER2	AC 4/9	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 4/4	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 4/10	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 4/5	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 4/11	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 4/6	DUCTED	40	PEFY-P-40 VMS1 ER2	AC 4/12	CASSETTE	20	PLFY-P-20 VCH ER1

REF	FUNCTION	LOCATION	MODEL	Conns	Spare	WT	PHASE	POWER	RC	FUSE	W	D	H	DIMS (mm)
BC 3	MASTER	FIFTH FLOOR	CHB P 106 V GA 1	16	4	62 kg	1ph	0.32 kW	130 A	6A	110	520	289	

**Controls**  
**Central Controller** AT 50A-J TOUCH SCREEN CENTRAL CONTROLLER  
 PAC SC 51 KUA J + POWER SUPPLY  
**Local Controls** 4 No. WALL MOUNTED CONTROLLERS AS INDICATED AS: PAR F27 MEA J

REF	OUTDOOR UNIT MODEL	ELECTRICAL DATA (Amps)	DIMS (mm)	WEIGHT	SOUND	AIRFLOW	COP/VEER
		PH SC RC FUSE	L D H	kg	dBA	L/s	
CU 3	PURY P 350 YH-A	3ph 8 17.5 32	1220 760 1710	270	60	MAX 3750	4.19/3.53

REF	TYPE	SIZE	MODEL	REF	TYPE	SIZE	MODEL
AC 3/1	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 3/8	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 3/2	DUCTED	50	PEFY-P-50 VMS1 ER2	AC 3/9	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 3/3	DUCTED	63	PEFY-P-63 VMS1 ER2	AC 3/10	DUCTED	25	PEFY-P-25 VMS1 ER2
AC 3/4	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 3/11	DUCTED	25	PEFY-P-25 VMS1 ER2
AC 3/5	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 3/12	DUCTED	20	PEFY-P-20 VMS1 ER2
AC 3/6	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 3/13	CASSETTE	20	PLFY-P-20 VCH ER1
AC 3/7	DUCTED	32	PEFY-P-32 VMS1 ER2				

REF	FUNCTION	LOCATION	MODEL	Conns	Spare	WT	PHASE	POWER	RC	FUSE	W	D	H	DIMS (mm)
BC 3	MASTER	THIRD FLOOR	CHB P 106 V GA 1	16	3	62 kg	1ph	0.32 kW	130 A	6A	110	520	289	

**Controls**  
**Central Controller** AT 50A-J TOUCH SCREEN CENTRAL CONTROLLER  
 PAC SC 51 KUA J + POWER SUPPLY  
**Local Controls** 4 No. WALL MOUNTED CONTROLLERS AS INDICATED AS: PAR F27 MEA J

REF	OUTDOOR UNIT MODEL	ELECTRICAL DATA (Amps)	DIMS (mm)	WEIGHT	SOUND	AIRFLOW	COP/VEER
		PH SC RC FUSE	L D H	kg	dBA	L/s	
CU 3	PURY P 350 YH-A	3ph 8 17.5 32	1220 760 1710	270	60	MAX 3750	4.19/3.53

REF	TYPE	SIZE	MODEL	REF	TYPE	SIZE	MODEL
AC 2/1	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 2/8	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 2/2	DUCTED	50	PEFY-P-50 VMS1 ER2	AC 2/9	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 2/3	DUCTED	63	PEFY-P-63 VMS1 ER2	AC 2/10	DUCTED	25	PEFY-P-25 VMS1 ER2
AC 2/4	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 2/11	DUCTED	25	PEFY-P-25 VMS1 ER2
AC 2/5	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 2/12	DUCTED	20	PEFY-P-20 VMS1 ER2
AC 2/6	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 2/13	DUCTED	20	PEFY-P-20 VMS1 ER2
AC 2/7	DUCTED	32	PEFY-P-32 VMS1 ER2	AC 2/14	CASSETTE	25	PLFY-P-25 VCH ER1

REF	FUNCTION	LOCATION	MODEL	Conns	Spare	WT	PHASE	POWER	RC	FUSE	W	D	H	DIMS (mm)
BC 2	MASTER	SECOND FLOOR	CHB P 106 V GA 1	16	2	62 kg	1ph	0.32 kW	130 A	6A	110	520	289	

**Controls**  
**Central Controller** AT 50A-J TOUCH SCREEN CENTRAL CONTROLLER  
 PAC SC 51 KUA J + POWER SUPPLY  
**Local Controls** 4 No. WALL MOUNTED CONTROLLERS AS INDICATED AS: PAR F27 MEA J

REF	OUTDOOR UNIT MODEL	ELECTRICAL DATA (Amps)	DIMS (mm)	WEIGHT	SOUND	AIRFLOW	COP/VEER
		PH SC RC FUSE	L D H	kg	dBA	L/s	
CU 2	PURY P 350 YH-A	3ph 8 17.5 32	1220 760 1710	270	60	MAX 3750	4.19/3.53

REF	TYPE	SIZE	MODEL	REF	TYPE	SIZE	MODEL
AC 1/1	DUCTED	50	PEFY-P-50 VMS1 ER2	AC 1/7	DUCTED	50	PEFY-P-50 VMS1 ER2
AC 1/2	DUCTED	63	PEFY-P-63 VMS1 ER2	AC 1/8	CASSETTE	20	PLFY-P-20 VCH ER1
AC 1/3	DUCTED	40	PEFY-P-40 VMS1 ER2	AC 1/9	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 1/4	CASSETTE	20	PLFY-P-20 VCH ER1	AC 1/10	DUCTED	32	PEFY-P-32 VMS1 ER2
AC 1/5	DUCTED	50	PEFY-P-50 VMS1 ER2	AC 1/11	CASSETTE	20	PLFY-P-20 VCH ER1
AC 1/6	DUCTED	40	PEFY-P-40 VMS1 ER2	AC 1/12	CASSETTE	20	PLFY-P-20 VCH ER1

REF	FUNCTION	LOCATION	MODEL	Conns	Spare	WT	PHASE	POWER	RC	FUSE	W	D	H	DIMS (mm)
BC 1	MASTER	FIRST FLOOR	CHB P 106 V GA 1	16	4	62 kg	1ph	0.32 kW	130 A	6A	110	520	289	

**Controls**  
**Central Controller** AT 50A-J TOUCH SCREEN CENTRAL CONTROLLER  
 PAC SC 51 KUA J + POWER SUPPLY  
**Local Controls** 4 No. WALL MOUNTED CONTROLLERS AS INDICATED AS: PAR F27 MEA J

REF	OUTDOOR UNIT MODEL	ELECTRICAL DATA (Amps)	DIMS (mm)	WEIGHT	SOUND	AIRFLOW	COP/VEER
		PH SC RC FUSE	L D H	kg	dBA	L/s	
CU 1	PURY P 350 YH-A	3ph 8 17.5 32	1220 760 1710	270	60	MAX 3750	4.19/3.53