

REFERENCE	MANUFACTURER/MODEL	TOTAL UK COOLING	FLOW RATE Qv HIGH/MED	DIMENSIONS WxDxH	STANDARD FCU PLENUM DETAIL	EXTERNAL STATIC PRESSURE HIGH/MED
FCU1	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU2	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU3	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU4	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU5	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU6	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU7	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU8	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU9	mitsubishi PEFY-P40VSM1-E	4.1kW	183/158 l/s	990x700x200	4 spigots 150mm	50/35 Pa
FCU10	mitsubishi PEFY-P25VSM1-E	2.5kW	150/117 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU11	mitsubishi PEFY-P25VSM1-E	2.5kW	150/117 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU12	mitsubishi PEFY-P40VSM1-E	4.1kW	183/158 l/s	990x700x200	4 spigots 150mm	50/35 Pa
FCU13	mitsubishi PEFY-P40VSM1-E	4.1kW	183/158 l/s	990x700x200	4 spigots 150mm	50/35 Pa
FCU14	mitsubishi PEFY-P15VSM1-E	1.5kW	117/100 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU15	mitsubishi PLFY-P32VFM-E	3.2kW	158/133 l/s	625x625x255	-	-
FCU16	mitsubishi PLFY-P32VFM-E	3.2kW	158/133 l/s	625x625x255	-	-
FCU17	mitsubishi PLFY-P32VFM-E	3.2kW	158/133 l/s	625x625x255	-	-
FCU18	mitsubishi PLFY-P32VFM-E	3.2kW	158/133 l/s	625x625x255	-	-
FCU19	mitsubishi PLFY-P32VFM-E	3.2kW	158/133 l/s	625x625x255	-	-
FCU20	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU21	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU22	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU23	mitsubishi PLFY-P40VFM-E	4.0kW	183/150 l/s	625x625x255	-	-
FCU24	mitsubishi PEFY-P15VSM1-E	1.5kW	117/100 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU25	mitsubishi PEFY-P15VSM1-E	1.5kW	117/100 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU26	mitsubishi PKFY-P20VLM-E	2.0kW	90/82 l/s	773x237x299	-	-
FCU27	mitsubishi PEFY-P50VSM1-E	5.0kW	217/183 l/s	990x700x200	4 spigots 150mm	50/35 Pa
FCU28	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU29	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU30	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU31	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU32	mitsubishi PEFY-P25VSM1-E	2.5kW	150/117 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU33	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU34	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU35	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU36	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU37	mitsubishi PEFY-P25VSM1-E	2.5kW	150/117 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU38	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU39	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU40	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU41	mitsubishi PLFY-P50VFM-E	5.0kW	217/183 l/s	625x625x255	-	-
FCU42	mitsubishi PEFY-P25VSM1-E	2.5kW	150/117 l/s	790x700x200	3 spigots 150mm	50/35 Pa
FCU43	mitsubishi PKA-M35LA2	3.3 kW	182/153 l/s	898x237x299	-	-
FCU44	mitsubishi PKA-M35LA2	3.3 kW	182/153 l/s	898x237x299	-	-
FCU45	mitsubishi PEFY-P63VSM1-E	6.4kW	275/233 l/s	1190x700x200	4 spigots 150mm	50/35 Pa
FCU46	mitsubishi PEFY-P63VSM1-E	6.4kW	275/233 l/s	1190x700x200	4 spigots 150mm	50/35 Pa
FCU47	mitsubishi PEFY-P63VSM1-E	6.4kW	275/233 l/s	1190x700x200	4 spigots 150mm	50/35 Pa
FCU48	mitsubishi PEFY-P63VSM1-E	6.4kW	275/233 l/s	1190x700x200	4 spigots 150mm	50/35 Pa
FCU49	mitsubishi PEFY-P15VSM1-E	1.5kW	117/100 l/s	790x700x200	3 spigots 150mm	-
FCU50	mitsubishi PLFY-P32VFM-E	3.1kW	158/133 l/s	625x625x255	-	-
FCU51	mitsubishi PLFY-P32VFM-E	3.1kW	158/133 l/s	625x625x255	-	-
FCU52	mitsubishi PEFY-P63VSM1-E	6.4kW	275/233 l/s	1190x700x200	4 spigots 150mm	50/35 Pa

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- FCU Schedule.
Allow for local architect specified thermostat per room, and floor controller. Standard plenums by FCUpenumsdirect.co.uk
For tendering purposes all local controllers to be PAR-CT01MAA, and central controllers to be AE-200E

REFERENCE	MANUFACTURER/MODEL	TOTAL UK COOLING	FLOW RATE Qv	ELECTRICAL DETAILS	DIMENSIONS WxDxH	WEIGHT
CON1	PURY-P700YSNW-A2	71.6kW	4.17 m3/sec	3Ph / 50Hz / 380~415V 32A	1240+1240 x 740 x 1858	269+269 kg
CON2	PURY-P650YSNW-A2	65.8kW	4 / 4.16 m3/sec	3Ph / 50Hz / 380~415V 32A	920+1240 x 740 x 1858	225+269 kg
CON3	PUMY-P250YBM	21.6kW	3.05 m3/sec	3Ph / 50Hz / 380~415V 30A	1050 x 460+45 x 1662	196kg
CON4	PUMY-SP125YKM	11.2 kW	1.38 m3/sec	3Ph / 50Hz / 380~415V 16A	1050 x 330+40 x 981	94kg
CON5	PUZ-ZM35VKA2	0.84kW	1.28 m3/sec	1Ph / 50Hz / 220~240V 16A	809x300x630	46kg
CON6	PUZ-ZM35VKA2	0.84kW	1.28 m3/sec	1Ph / 50Hz / 220~240V 16A	809x300x630	46kg

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- External Condenser Schedule.
Installation as per manufacturer requirements. Pipework to be routed externally up the facade of the building, protected by galvanised containment.
Contractor to allow for upflow silencers for PURY units.

REFERENCE	MANUFACTURER/MODEL	FLOW RATE Qv HIGH	DIMENSIONS WxDxH	EXTERNAL STATIC PRESSURE HIGH	WEIGHT
FAN1	mitsubishi LGH-80RVX-E	222 l/s	1144x1004x404	150 Pa	48kg
FAN2	mitsubishi LGH-80RVX-E	222 l/s	1144x1004x404	150 Pa	48kg
FAN3	mitsubishi LGH-65RVX-E	181 l/s	908x954x404	120 Pa	38kg
FAN4	mitsubishi LGH-65RVX-E	181 l/s	908x954x404	120 Pa	38kg
FAN5	VENT AXIA ACM 100	69 l/s @ 50pa	178x298x220		
FAN6	VENT AXIA ACM 100	69 l/s @ 50pa	178x298x220		
FAN7	mitsubishi LGH-100RVX-E	278 l/s	1144x1231x404	170 Pa	54kg
FAN8	VENT AXIA ACM 200	247 l/s @ 50pa	223x300x276		
FAN9	mitsubishi LGH-80RVX-E	222 l/s	1144x1004x404	150 Pa	48kg
FAN10	mitsubishi LGH-80RVX-E	222 l/s	1144x1004x404	150 Pa	48kg
FAN11	mitsubishi LGH-80RVX-E	222 l/s	1144x1004x404	150 Pa	48kg
FAN12	VENT AXIA ACM 100	69 l/s @ 50pa	178x298x220		
FAN13	VENT AXIA ACM 100	69 l/s @ 50pa	178x298x220		
FAN14	mitsubishi LGH-100RVX-E	278 l/s	1144x1231x404	170 Pa	54kg
FAN15	mitsubishi LGH-100RVX-E	278 l/s	1144x1231x404	170 Pa	54kg
FAN16	mitsubishi LGH-100RVX-E	278 l/s	1144x1231x404	170 Pa	54kg
FAN17	mitsubishi LGH-100RVX-E	278 l/s	1144x1231x404	170 Pa	54kg
FAN18	mitsubishi LGH-100RVX-E	278 l/s	1144x1231x404	170 Pa	54kg
FAN19	mitsubishi LGH-65RVX-E	181 l/s	908x954x404	120 Pa	38kg
FAN20	VENT AXIA ACM 200	247 l/s @ 50pa	223x300x276		
FAN21	mitsubishi LGH-100RVX-E	278 l/s	1144x1231x404	170 Pa	54kg
FAN22	VENT AXIA ACM 100	69 l/s @ 50pa	178x298x220		

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- Fan Schedule.
Installation and access as per manufacturer requirements. To be linked back to floor controller

REFERENCE	AREA	TOTAL SEATS	SEATS @ 80% DIVERSITY	HEAT GAIN	VENTILATION @ 80% DIVERSITY
OFFICE 1	291 m2	48	38	29.1 kW	380 l/s
MEETING ROOM 1	40 m2	22	18	4.0 kW	180 l/s
MEETING ROOM 2	20 m2	8	6	2.0 kW	60 l/s
MEETING ROOM 3	19 m2	8	6	1.9 kW	60 l/s
RECEPTION	71 m2	3	2	7.1 kW	20 l/s
MEETING ROOM 4	11 m2	6	5	1.1 kW	50 l/s
COURTYARD SUITE	290 m2	60	48	29.0 kW	480 l/s
BREAKOUT AREA	199 m2	51	46	19.9 kW	460 l/s
MEETING ROOM 5	22 m2	14	11	2.2 kW	110 l/s
PREMIER SUITE	612 m2	139	111	61.2 kW	1110 l/s
COLLABORATION	48 m2	12	10	48.0 kW	100 l/s
PODCAST/PRAYER	18 m2	2	2	1.8 kW	20 l/s
MEETING ROOM 6	15 m2	8	6	1.5 kW	60 l/s
MEETING ROOM 7	14 m2	8	6	1.4 kW	60 l/s
SUITE 221/222	116 m2	22	18	11.6 kW	180 l/s
MEETING ROOM 8	12 m2	6	5	1.2 kW	50 l/s

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- Mechanical Loads.
Based on BCO Guidance, 2 Person booths, booth seating, and collaboration areas excluded from vent calculations;
Collaboration areas deemed to be part of the same open space for the same occupants to use.
2 Person booths provided with extract ventilation with tempered fresh air from main coming through open grille.

General Drawing Notes:

1. This drawing is subject to copyright and is not to be reproduced in part or whole without approval.
2. This drawing and all associated documentation has been produced exclusively for the use of the client and Martin P Mulryan & Associates (MMA Engineers) accept no responsibility for use by any third parties.
3. Do not scale from this drawing - check all dimensions onsite.
4. This drawing shows design intent only. The contractor must produce fully dimensioned and coordinated installation/working drawings for review and acceptance prior to any ordering or installation of equipment.
5. This drawing shall be read in conjunction with the project specification(s) and all other contract documentation. Any discrepancies identified on this drawing must be reported to the Consulting Building Services Engineer (CBSE) immediately.

Standard Drawing Notes:

Survey
The contractor shall allow to complete a full intrusive survey of the building. The contractor shall identify all redundant and non-redundant services. Any services to be retained should be fully validated to enable a complete coordinated design. A survey report shall be issued to MMA prior to works commencing onsite.

Disconnection and disposal of existing Services

Where equipment is redundant the contractor shall allow for all safe drain-down, disconnection, removal and disposal of equipment.

RFI's

Where the contractor has reason to request information the contractor shall issue a copy of the MMA RFI form fully and return to the project manager with sufficient time to action.

Link: mmaengineers.co.uk/onsite/RFI

Coordinated Equipment Selection

Prior to ordering any equipment, including equipment specified in this drawing or MMA specification, the contractor shall issue a copy of the MMA TS (technical submittal) form and return to the project manager with sufficient time to action. Any equipment or ancillaries ordered or installed prior to acceptance will be the responsibility of the contractor.

Link: mmaengineers.co.uk/onsite/TS

Installation & Working Drawings

All equipment shall be installed to manufactures recommendations, British Standards and Approved Documents. The tenderer is to allow for producing coordinated MEP installation and builderswork drawings prior to commencement on site as per the MMA specifications.

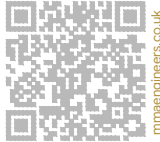
Commissioning

All equipment shall be commissioned to CIBSE/BSRIA recommendations with commissioning reports sent to MMA for review.

Project Completion

Prior to competition the contractor shall issue a completed copy of the MMA document 'Information Required Prior to Practical Completion'. MMA will not chase the issue of the document, but this should be fully completed will all associated documents attached. It should be assumed that PC will not be given without this document being approved by the project Manager.

Link: mmaengineers.co.uk/onsite/PC



T3	17.11.22	LTA Issue	ZB
T2	17.11.22	LTA Issue	ZB
T1	04.11.22	LTA Issue	ZB
Rev:	Date:	Status/Amendments:	By:

TENDER



Client:

Acturis

Project:

100 Hatton Gardens

Drawing Title:

Mechanical Schedule

Drawn By: Z.B	Checked By: P.M	Cad By: Z.B
Scale: NTS	Paper Size: A1	Date Created: 11.11.2022
Drawing Number: 6136-XX-ZZ-DR-M -06		Drawing Revision: T3