

MECHANICAL VENTILATION HEAT RECOVERY UNITS

Reference	Type	Manufacturer	Model	Flow Rate (l/s)	SFP (W/l/s) @ Duty	Weight (kg)
MV/HR.01	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC15-H	110	1.2	250
MV/HR.02	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC10-H	60	1.1	200
MV/HR.03	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC15-H	90	1	250
MV/HR.04	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC10-H	40	1	200
MV/HR.05	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC15-H	90	1	250
MV/HR.06	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC15-H	130	1.4	250
MV/HR.07	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC15-H	160	0.7	300
MV/HR.08	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC15-H	120	1.3	250
MV/HR.09	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC45-H	325	1.1	400
MV/HR.10	Mechanical Ventilation Heat Recovery System	Nuaire	XCBC45-H	325	1.1	400
MV/HR.11	Mechanical Ventilation Heat Recovery System	SAV	AM 900	160	0.6	180
MV/HR.12	Mechanical Ventilation Heat Recovery System	SAV	AM 800 V	160	0.6	155
MV/HR.13	Mechanical Ventilation Heat Recovery System	SAV	AM 800 V	160	0.6	155
MV/HR.14	Mechanical Ventilation Heat Recovery System	SAV	AM 800 V	160	0.6	155

SUPPLY GRILLES

Reference	Type	Dimension (mm)	Design Flow (l/s)
SG:01	3 Way Supply Louve Face Diffuser	300 x 300	45
SG:02	2 Way Supply Louve Face Diffuser	150 x 150	20
SG:03	4 Way Supply Louve Face Diffuser	300 x 300	60
SG:04	4 Way Supply Louve Face Diffuser	450 x 450	65
SG:05	2 Way Supply Louve Face Diffuser	300 x 300	80
SG:06	4 Way Supply Louve Face Diffuser	450 x 450	325
SG:07	4 Way Supply Louve Face Diffuser	375 x 375	160

EXTRACT GRILLES

Reference	Type	Dimension (mm)	Design Flow (l/s)
EG:01	Valve Diffuser	125Ø	15
EG:02	4 Way Extract Louve Face Diffuser	300 x 300	90
EG:03	4 Way Extract Louve Face Diffuser	150 x 150	40
EG:04	4 Way Extract Louve Face Diffuser	450 x 450	120
EG:05	4 Way Extract Louve Face Diffuser	450 x 450	325
EG:06	2 Way Extract Louve Face Diffuser	300 x 300	40
EG:07	4 Way Extract Louve Face Diffuser	375 x 375	160

ROOF COWLS

Reference	Type	Manufacturer	Model	Heating Capacity	Cooling Capacity	Electrical Supply	Phase	Weight (kg)
AC:01	4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P80V/EM-E	10.0 kW	9.0 kW	220-240v, 50Hz	Single	22
AC:02	4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P80V/EM-E	10.0 kW	9.0 kW	220-240v, 50Hz	Single	22
AC:03	4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P80V/EM-E	10.0 kW	9.0 kW	220-240v, 50Hz	Single	22
AC:04	600X600 4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P40V/EM-E	5.0 kW	4.5 kW	220-240v, 50Hz	Single	22
AC:05	600X600 4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P40V/EM-E	5.0 kW	4.5 kW	220-240v, 50Hz	Single	22
AC:06	600X600 4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P25V/EM-E	3.2 kW	2.8 kW	220-240v, 50Hz	Single	22
AC:07	600X600 4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P25V/EM-E	3.2 kW	2.8 kW	220-240v, 50Hz	Single	22
AC:08	600X600 4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P40V/EM-E	5.0 kW	4.5 kW	220-240v, 50Hz	Single	22
AC:09	600X600 4-Way Blow Ceiling Cassette	Mitsubishi	PLFY-P40V/EM-E	5.0 kW	4.5 kW	220-240v, 50Hz	Single	22
AC:10	Ceiling Suspended Unit	Mitsubishi	PCFY-P100V/KM-E	12.5 kW	11.2 kW	220-240v, 50Hz	Single	36

AC CEILING CASSETTES

EXTERNAL HEAT PUMPS

Reference	Type	Manufacturer	Model	Heating Capacity	Cooling Capacity	Electrical Supply	Phase	Weight (kg)
HP:01	VRF Heat Pump Outdoor Unit	Mitsubishi	Mini VRF PUMY-SP125VKM	16.0 kW	14.0 kW	220-240v, 50Hz	Single/Three	93
HP:02	VRF Heat Pump Outdoor Unit	Mitsubishi	Mini VRF PUMY-SP125VKM	16.0 kW	14.0 kW	220-240v, 50Hz	Single/Three	93
HP:03	R32 Heat Pump Outdoor Unit	Mitsubishi	MX2-3F68VF	8.6 kW	6.8 kW	220-240v, 50Hz	Single	58
HP:04	VRF Heat Pump Outdoor Unit	Mitsubishi	Mini VRF PUMY-SP125VKM	16.0 kW	14.0 kW	220-240v, 50Hz	Single/Three	93

PUMPS

Reference	Type	Manufacturer	Pressure Requirement	Notes
BS:01	Main cold water booster set	KGN Pillingier	To give 1.5 Bar pressure at outlets at top floor	ST:01 to be sized in line with building and booster set requirements
P:02	Heating Distribution	Grundfos		
P:03	Heating Distribution	Grundfos		
	Domestic hot water circulation	Grundfos	To give 1.5 Bar pressure at outlets at top floor	

RADIATORS

Reference	Manufacturer	Model	Heat Output (W)	Width (mm)	Height (mm)
RAD:01	Stelrad	LST Standard K2	1673	1560	650
RAD:02	Stelrad	LST Standard K2	2151	1960	650
RAD:03	Stelrad	LST Standard K2	1434	1360	650
RAD:04	Stelrad	LST Standard K2	478	560	650
RAD:05	Stelrad	LST Standard K2	717	760	650
RAD:06	Stelrad	LST Standard K2	1912	1760	650
RAD:07	Stelrad	LST Standard K2	1195	1160	650
RAD:08	Stelrad	Elite K2	889	600	600

BOILERS

Reference	Type	Manufacturer	Model
B:01	Gas condensing Boiler	Mikrofil	Ethos 130
B:02	Gas condensing Boiler	Mikrofil	Ethos 130
B:03	Gas condensing Boiler	Mikrofil	Ethos 130
B:04	Gas Combination Boiler	Worcester	Greenstar 30i

HOT WATER CYLINDERS / WATER HEATERS

Reference	Type	Manufacturer	Model	Capacity (L)
HWC:01	Indirect	Heatrae Sadia	Megaño Eco	300
BT:01	Direct	Heatrae Sadia	Supreme 180	7.5

WEATHER LOUVRES

Reference	Type	System Type	Dimensions (mm)	Air Flow (l/s)
WL	External Weather Louve	Extract	To be designed by specialist	-
WL:01	External Weather Louve	Extract	700 x 250	173
WL:03	External Weather Louve	Extract	450 x 200	90
WL:05	External Weather Louve	Extract	150 x 150	24
WL:06	External Weather Louve	Extract	670 x 250	166
WL:08	External Weather Louve	Extract	1120 x 400	446
WL:09	External Weather Louve	Supply	1025 x 400	410
WL:10	External Weather Louve	Extract	880 x 500	436
WL:11	External Weather Louve	Supply	600 x 500	400
WL:12	External Weather Louve	Extract	800 x 200	325
WL:13	External Weather Louve	Supply	500 x 300	325

EXTRACT FANS

Reference	Type	Manufactu Model	Duty (l/s)	SFP (W/(l/s))
EF:01	Twin Extract Fan	Nuaire	ES-OPUSDC60-2M	0.3
EF:02	Twin Extract Fan	Nuaire	ES-OPUSDC40-2M	0.3
EF:03	Ceiling / Wall Mounted Fan	Nuaire	GENIE-DC-H	0.2
EF:04	Ceiling / Wall Mounted Fan	Nuaire	ES-OPUSDC40-2M	0.3
EF:05	Ceiling / Wall Mounted Fan	Nuaire	GENIE-DC-H	0.2

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F	Amendments to Roof Cowls, AC units and Weather Louvers	16/04/19	MP	SM
E	Client's logo amended	08/04/19	MP	FL
D	Weather Louvers addition	28/03/19	MP	SM
C	Ventilation design updated to have intake air from first floor and above	22/03/19	MP	SM
B	Schedules Updated	07/11/18	MP	SM
A	Weather Louvre & Roof Cowl Information Updated	25/09/18	MP	SM
REV	DESCRIPTION	DATE	BY	CHKD
ORIGINATOR:				



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PROJECT:
Abacus Belsize Primary School
Hampstead, London

TITLE:
Mechanical Services
Equipment Schedules

DRAWN BY:	MF	SCALE:	1:100	@	A1
CHECKED BY:	SM	DATE:	05/09/2018		

TENDER

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