

Fan coil unit (refrigerant) schedule



Fan coil unit (refrigeration) schedule	
Project	Natwest - Gordon Street, Glasgow
Project description	M&E Upgrades
Project number	SB0532
Document reference	SB0532-SCH-M-001
Prepared by	KW
Date	21/12/2023
Revision	PI

Revision History					
Revision	Revision Notes	DCC	Date	Prepared	Checked
PI	Preliminary Issue		21/12/2023	KW	MG

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Ref	Quantity	Model	Floor/Location	Cooling Capacity [kW]	Heating Capacity [kW]	Air Volume [l/s]	Fan speed	Fan power (watts)	SFP (w/l/s)	Noise (NR)	Number of spigots	Spigot diameter (mm)	Controls	Dimensions			Weight [kg]	Served from condenser ref.	Notes
														Length	Width	Height			
														(mm)	(mm)	(mm)			
AC 01	7	Floor Standing Unit	Ground Floor/Mezz	4.50	5.00	184	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1140	600	32	ODU/01	New Diakin FXLQ40 Floor Standing Unit c/w BRC Remote Controllers & Condensate Lift Pump if required
AC 02	2	Floor Standing Unit	Ground Floor	2.20	2.50	117	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1000	600	27	ODU/01	New Diakin FXLQ20 Floor Standing Unit c/w BRC Remote Controllers & Condensate lift pump if required
AC 03	1	Floor Standing Unit	Mezzanine	4.50	5.00	184	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1140	600	32	ODU/01	New Diakin FXLQ40 Floor Standing Unit c/w BRC Remote Controllers & Condensate Lift Pump if required
AC 04	2	Floor Standing Unit	Mezzanine	3.60	4.00	133	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1140	600	32	ODU/01	New Diakin FXLQ32 Floor Standing Unit c/w BRC Remote Controllers & condensate lift pump if required
AC 05	4	Floor Standing Unit	Mezzanine	2.20	2.50	117	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1000	600	27	ODU/01	New Diakin FXLQ20 Floor Standing Unit c/w BRC Remote Controllers & Condensate lift pump if required
AC 06	1	Cassette Unit	Basement	2.20	2.50	125	Medium	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	575	575	260	17	ODU/01	New Diakin FXZQ20 Cassette Unit c/w Wall Mounted Local Controller
AC 07	1	Cassette Unit	Basement	1.70	1.90	117	Medium	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	575	575	260	17	ODU/01	New Diakin FXZQ15 Cassette Unit c/w Wall Mounted Local Controller
AC 08	1	Wall Mounted	Basement	7.40	10.80	383	Medium	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	1200	240	340	17	ODU/02	New Diakin FFA100A Wall Mounted Split Unit c/w local wall mounted controller
AC 09	1	Wall Mounted	Ground Floor	7.40	10.80	383	Medium	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	1200	240	340	17	ODU/03	New Diakin FFA100A Wall Mounted Split Unit c/w local wall mounted controller

Ref	Quantity	Model	Floor/Location	Cooling Capacity [kW]	Heating Capacity [kW]	Air Volume [l/s]	Fan speed	Fan power (watts)	SFP (w/l/s)	Noise (NR)	Number of spigots	Spigot diameter (mm)	Controls	Dimensions			Weight [kg]	Served from condenser ref.	Notes
														Length	Width	Height			
														(mm)	(mm)	(mm)			
AC 01	7	Floor Standing Unit	Ground Floor/Mezz	4.50	5.00	184	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1140	600	32	ODU/01	New Daikin FXLQ40 Floor Standing Unit c/w BRC Remote Controllers & Condensate Lift Pump if required
AC 02	2	Floor Standing Unit	Ground Floor	2.20	2.50	117	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1000	600	27	ODU/01	New Daikin FXLQ20 Floor Standing Unit c/w BRC Remote Controllers & Condensate lift pump if required
AC 03	1	Floor Standing Unit	Mezzanine	4.50	5.00	184	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1140	600	32	ODU/01	New Daikin FXLQ40 Floor Standing Unit c/w BRC Remote Controllers & Condensate Lift Pump if required
AC 04	2	Floor Standing Unit	Mezzanine	3.60	4.00	133	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1140	600	32	ODU/01	New Daikin FXLQ32 Floor Standing Unit c/w BRC Remote Controllers & condensate lift pump if required
AC 05	4	Floor Standing Unit	Mezzanine	2.20	2.50	117	High	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	232	1000	600	27	ODU/01	New Daikin FXLQ20 Floor Standing Unit c/w BRC Remote Controllers & Condensate lift pump if required
AC 06	1	Cassette Unit	Basement	2.20	2.50	125	Medium	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	575	575	260	17	ODU/01	New Daikin FXZQ20 Cassette Unit c/w Wall Mounted Local Controller
AC 07	1	Cassette Unit	Basement	1.70	1.90	117	Medium	-	-	Manufacturer's standard	N/A	Manufacturer's standard	Local Controller	575	575	260	17	ODU/01	New Daikin FXZQ15 Cassette Unit c/w Wall Mounted Local Controller

Outdoor units

Ref	Quantity	Model	Floor/Location	Input Power	Power supply	Sound Power Level (dBA)	Dimensions			Weight [kg]		Notes
							Length	Width	Height			
							(mm)	(mm)	(mm)			
OU 01	1	External Condensor	External	-	3p/50/415	88	1240	765	1685	317		New Daikin VRV IV+ REYQ20U.
OU 02	1	External Condensor	External	-	1p/50/230	66	460	1100	870	85		New Daikin RZAG100NVI
OU 03	1	External Condensor	External	-	1p/50/230	66	460	1100	870	85		New Daikin RZAG100NVI

BS Boxes

Ref	Quantity	Model	Floor/Location	Input Power	Power supply	Dimensions			Weight [kg]		Notes	
						Length	Width	Height				
						(mm)	(mm)	(mm)				
BS/01		BS10Q14A	Mezzanine	0.107	1p/240V/50Hz		820	430	298	35		New Daikin BS10Q14A
BS/02		BS10Q14A	Basement	0.107	1p/240V/50Hz		820	430	298	35		New Daikin BS10Q14A

Notes

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Notes:	
1.)	All Units to be Daikin or equal and approved
2.)	All units to be installed with a 5m condensate lift pump as standard.
3.)	All units to be selected at low speed to maintain noise levels in the space as stated.
4.)	Installing contractor to include for full commissioning, installation etc. Commissioning to include for all air on/off temperatures.
5.)	All referigerant pipework to be insulated and suitably labelled.
6.)	Installing contractor to note that condensate pump selection to be based on total lift from unit where indicated on drawings.
7.)	For quantities – refer to drawings. Contractor/supplier to establish quantities from the drawings. For pricing/tender, quantities are as per tender drawings. Final quantities for construction & installation will be as contractor's installation drawings
8.)	Refrigerant used to be R410A or R32
9.)	Units shall be supplied with return air sensor all fitted, wired and tested compatible with buildings control system. The controls specialist shall supply the appropriate controller to the unit manufacturer free issue.
10.)	Ensure manufacturers comply with BS 4856.
11.)	Fabricated from galvanised mild steel sheets with stiffeners without sharp edges.
12.)	The units shall be rigid enough to ensure quiet operation.
13.)	Units shall incorporate fixing lugs.
14.)	Protect units from corrosion internally.
15.)	Do not use self tapping screws.
19.)	Provide adequate access to remove components in one piece. Filter to be easily withdrawn from installed position.
28.)	Install according to the manufacturers recommendations to give a neat appearance with supports out of view. Ensure equipment is firmly fixed and level.