

MINI-VRV AIR CONDITIONING SYSTEM

Project Name: 22 ENDELL STREET

Room Reference	Floor	Unit Reference	Room Cond. Summer	Room Cond. Winter	Design Cooling Duty Inc.+10% (kW)		Design Heating Duty (W) (Incl. +20%)	Unit			Speed	Manufacturers Selected Duty (kW)			Air Volume (l/s)	dBA
					Sensible	Total		Model	Dim. WxDxH (mm)	Controller Zone		Cooling		Heating		
												Sensible	Total			
Open Plan 1	Basement	-1/FCU 1	24	21	2.52	2.77	4.04	FXDQ40A3	950x620x200	LG/1	Medium	2.90	3.90	4.80	158	32
Open Plan 2	Basement	-1/FCU 2	24	21	2.52	2.77	4.04	FXDQ40A3	950x620x200	LG/2	Medium	2.90	3.90	4.80	158	32
Open Plan 3	Basement	-1/FCU 3	24	21	2.52	2.77	4.04	FXDQ40A3	950x620x200	LG/2	Medium	2.90	3.90	4.80	158	32
								Outdoor Unit: RXYSQ8TY1								
Open Plan 1	Ground	0/FCU 1	24	21	2.82	3.06	3.06	FXDQ40A3	950x620x200	G/2	Medium	2.90	3.90	4.80	158	32
Open Plan 2	Ground	0/FCU 2	24	21	2.82	3.06	3.06	FXDQ40A3	950x620x200	G/2	Medium	2.90	3.90	4.80	158	32
Open Plan 3	Ground	0/FCU 3	24	21	2.79	2.98	3.74	FXDQ32A3	750x620x200	G/2	Medium	2.20	3.20	3.90	120	31
								Outdoor Unit: RXYSQ5TY1								
Open Plan 1	First	1/FCU 1	24	21	4.33	4.64	4.57	FXDQ63A3	1150x620x200	F/1	Medium	4.40	6.20	7.70	242	34
Open Plan 2	First	1/FCU 2	24	21	2.82	3.06	3.03	FXDQ40A3	950x620x200	F/2	Medium	2.90	3.90	4.80	158	32
Open Plan 3	First	1/FCU 3	24	21	2.82	3.06	3.03	FXDQ40A3	950x620x200	F/2	Medium	2.90	3.90	4.80	158	32
Open Plan 3	First	1/FCU 4	24	21	2.83	3.02	3.82	FXDQ50A3	950x620x200	F/2	Medium	3.60	4.90	6.10	183	33
								Outdoor Unit: RXYSQ8TY1								
Open Plan 1	Second	2/FCU 1	24	21	3.30	3.55	3.66	FXDQ63A3	1150x620x200	S/1	Medium	4.40	6.20	7.70	242	34
Open Plan 2	Second	2/FCU 2	24	21	3.30	3.55	3.66	FXDQ63A3	1150x620x200	S/2	Medium	4.40	6.20	7.70	242	34
Open Plan 3	Second	2/FCU 3	24	21	3.30	3.55	3.66	FXDQ63A3	1150x620x200	S/2	Medium	4.40	6.20	7.70	242	34
Open Plan 3	Second	2/FCU 4	24	21	3.30	3.55	3.66	FXDQ63A3	1150x620x200	S/2	Medium	4.40	6.20	7.70	242	34
								Outdoor Unit: RXYSQ8TY1								
Open Plan 1	Third	3/FCU 1	24	21	3.73	4.05	5.42	FXNQ50A	990x200x720	T/1	Medium	3.60	4.90	6.10	183	31
Open Plan 2	Third	3/FCU 2	24	21	2.73	2.83	3.75	FXNQ40A	990x200x720	T/2	Medium	2.90	3.90	4.80	158	30
Open Plan 3	Third	3/FCU 3	24	21	2.73	2.83	3.75	FXNQ40A	990x200x720	T/2	Medium	2.90	3.90	4.80	158	30
Open Plan 4	Third	3/FCU 4	24	21	2.11	2.23	2.83	FXNQ25A	790x200x720	T/2	Medium	1.90	2.50	3.10	120	29
Open Plan 5	Third	3/FCU 5	24	21	2.11	2.23	2.83	FXNQ25A	790x200x720	T/2	Medium	1.90	2.50	3.10	120	29
								Outdoor Unit: RXYSQ8TY1								
Reception	Ground	0/Reception	24	21	3.62	3.93	4.40	FDXM60F9	1150x620x200	G/1	Medium	3.97	5.86	7.00	246	35
								Outdoor Unit: RXM50N9								

Notes

- 1./ Indoor unit duties to be selected to meet sensible design duty at medium speed setting @ NR38
- 2./ Offices shall be mini-VRV ststem (separate system per floor). The reception shall be a mini-split system.
- 3./ The stated model range is based on manufacture: Daikin: Supplier: Chris Smythe 07710 172212
- 4./ All units suitable for R410A refrigerant
- 5./ All units controlled from local wall mounted controllers sensors
- 6./ 2no. Wall Mounted Thermostat Controllers shall be provided for each floor. (AZCE6BLUEFACECB) This shall include a timeclock function and master & slave capability
- 7./ The manufacturer shall ensure that the condensing units are selected based on all available data, including the total length of refrigerant pipe route (vertical/horizontal).
- 8./ The Manufacturer/supplier shall be responsible for the system engineering of the VRV/heat pump systems
- 9./ The Mechanical services sub-contractor shall be responsible for co-ordinating all information and plant selections.
- 10./ External condensing units shall be sized to overcome the peak heating load in the offices
- 11./ External condensing units shall be sized on an external ambient of 35°C
- 12./ All external condensing units to meet planning external noise criteria.
- 13./ Unit to be installed in line with manufactures requirements.
- 14./ Unit to be commissioned by specialist supplier/installer.
- 15./ Third Party peristaltic condensate pump to be provided by alternative manufacturer. Integral pump to be disabled.
- 16./ No central controller is required.
- 17./ Fan Coil Units Type FXNQ shall be wall mounted
- 18./ Manufacturer shall confirm unit selection meets the designers requirements detailed in this schedule, prior to any equipment delivery on-site.

Schedule Ref.	T1
Author	DW
Checked	MS
Date	3rd July 2020