

### 3.5.6 VRV Heating and Comfort Cooling

The commercial office space shall be provided with space heating and comfort cooling by use of 2No Variable Refrigerant Volume (VRV) heat pumps.

The VRV systems shall comprise of external condensers, mounted at roof level directly above the communal entrance foyer, connected to a combination of vertical and wall mounted fan coil units by interconnecting refrigerant pipework.

The VRV systems shall be of the heat pump type, providing either heating or cooling, and shall as manufactured by Daikin Europe Ltd or equal and approved.

The VRV systems, condensers and connected fan coil units, shall be arranged to allow ease of subdividing the available office space into two independent spaces, for tendering purposes it should be assumed that the office space will be split midway between grid lines F & G.

The VRV condensers shall be as indicated below.

Ref	C1	C2
Area Served	Front Office	Rear Office
Location	Roof	Roof
Model	RXYSQ8TY1	RXYSQ8TY1
Heating Capacity (kw)	22.4	22.4
Cooling Capacity (kw)	22.4	22.4
Electrical Supply	415/3/50	415/3/50
Running Current (A)	9.6	9.6
MFA (A)	25	25
Dimensions (WxDxH)	940x320x1430	940x320x1430
Weight (kg)	218	218

Each condenser shall be located within an acoustic housing to comply with Local Authority noise control requirements and planning consent.

The final acoustic enclosure selection is subject to confirmation of Local Authority requirements, however for tendering purposes the contractor shall allow for each acoustic enclosure to be model LM40V2HPSP03.01 as manufactured by Environ Acoustic Technologies.

The contractor shall include within their Tender sum for Environ to supply, install and commissioning the acoustic enclosures, including the undertaking of post installation noise tests.

The enclosures shall have external dimensions not exceeding 1700mm Wide x 1250mm Deep x 1950mm High.

Fan coil units shall be of the vertical chassis type, mounted within joinery with discharged air ducted to a side wall grille and return air via shadow gap arrangements in the joinery, or wall mounted, as indicated on the drawings and in the schedules below.