

# Appendix 2

## ENERGY AND SUSTAINABILITY REPORT

EXTRACT FROM ORIGINAL REPORT SUBMITTED  
AS PART OF APPROVED APPLICATION

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Ref: 3295-120404ah

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### HEAT PUMP/HEAT RECOVERY SYSTEM

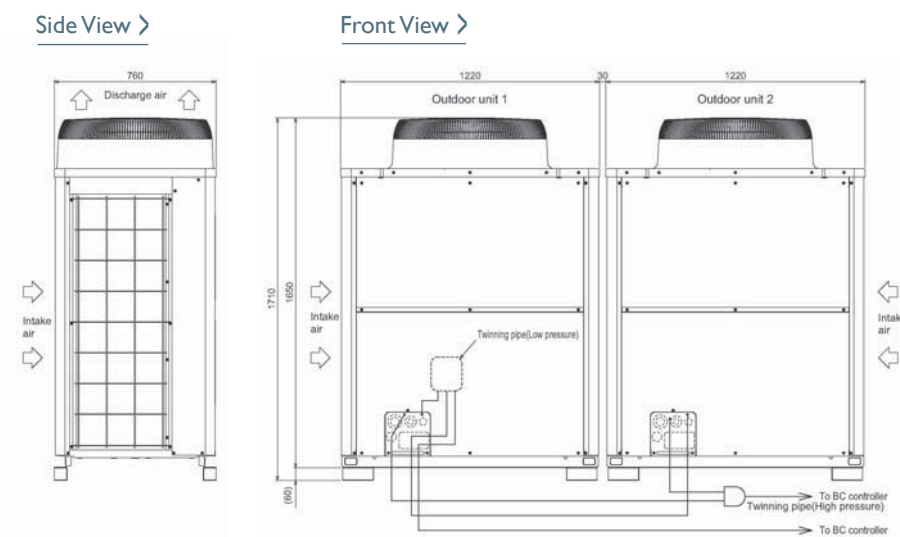
Domestic heat pump VRF/VRV air-conditioning units will provide heating and comfort cooling to all seminar rooms and office areas. Fan coils will generally be floor standing vertical discharge. Fan coils within museum and library areas will be enclosed within a joinery casing, fan coils in office and seminar areas will be provided with standard factory supplied casings.

Design room temperature in summer conditions is 21°C at 30°C ambient temperature.

Local wall mounted controllers will be provided to control the system on a room by room basis. [Option to control the system via the building automation system to be advised].

The heat recovery VRV outdoor units will be installed on the roof of the adjacent auditorium. The installation will be acoustically treated to comply with the local authority planning consent conditions. Refrigerant pipework distribution will rise vertically within new service riser and distribute within floor within joisted floor voids.

### PURY-EP550, 600YSJM-A



### PURY-EP650YSJM-A

Simultaneous heating and cooling with heat recovery outdoor unit



Model view to rear looking West from the roof of the Bolivar Hall showing the position of proposed unit with the louvred enclosure located behind the existing large metal duct