

9 Sustainability Assessment



9.1 Sustainability Assessment

Sustainability Assessment

The building HVAC systems will consist of packaged air source heat pump air handling units (AHU) and variable refrigerant flow (VRF) heat pump heating and cooling air conditioning systems. The air conditioning system will be selected with a refrigerant with a low global warming potential (GWP). Building management controls will be provided to maximise free cooling when the external ambient temperature permits and to reduce the system outputs during part load conditions. There is no requirement for any form of fume extract ventilation. Electrical lighting will be in the form of high efficiency LED luminaires again with building management controls to maximise the opportunity to utilise daylight in achieving the required lighting levels and switch off during times of no occupancy. Metering and sub-metering of electrical supplies will be implemented and fed back into a building management system.

Refer to appendices **M1004262-MAN.TL3.XX.SI-JAC-G-RE-ENVIR-0002** for the Manchester Airport T3 Security Area Re-Provision Sustainability Report from Jacobs and **Appendix A MAG T3 BREEAM Pre-assessment scorecard**