A C P AIRCONDITIONING

PROJECT PROFILE

Lunar House, Croydon

The Problem

The consultants required the installation of high quality desiccant cooling systems to operate with chilled ceilings in the conditioned space.

Some plant area inside the building was available, but to accommodate all the 9

Desiccant AHUs required, roof space also had to used. To save the cost of constructing roof plantrooms external AHU's needed to be fully weathered and packaged.

Technical Data

AHUs 1,2, 3 and 4 (4.7m3/s each):

Each basic 7600 long x 2500 wide x 2750mm (overall) height, plus corridor 1400 wide.

AHU 8, 9, 10, 11 and 12 (8.1m3/s each)

Each basic 7500 long x 3150 wide x 3300mm (overall) height.

All equipment was supplied during mid-2000.

The Solution

5 desiccant AHUs for internal location were supplied each rated at approximately 8.1m3/s, Each was a basic double-deck AHU with remote Control Panels and plantroom installation of pipework and valves by the installer.

4 desiccant AHUs for location on the roof were each rated at approximately 4.7m3/s, Each was a fully packaged Unit with services corridor incorporated along one side. This formed a plant area for location of Control Panels and all associated internal electrical and pipework. Each package was completely factory fabricated ready for site connection of LTHW and CW mains, power supply and control interfacing by others.

Because of the size of each package, they were delivered to site in sections, for re-assembly by ACP after positioning on the roof by the installer.