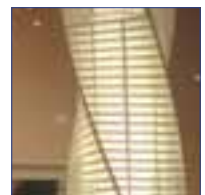
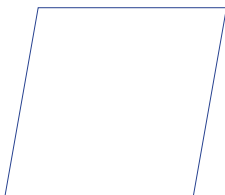
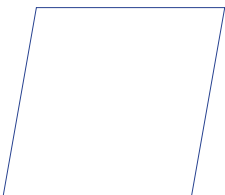
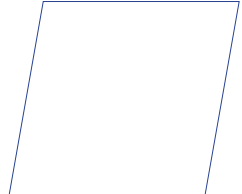
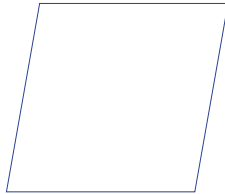
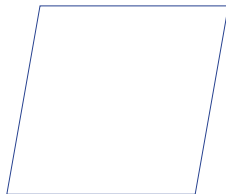
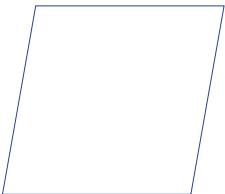


AET Serves the World

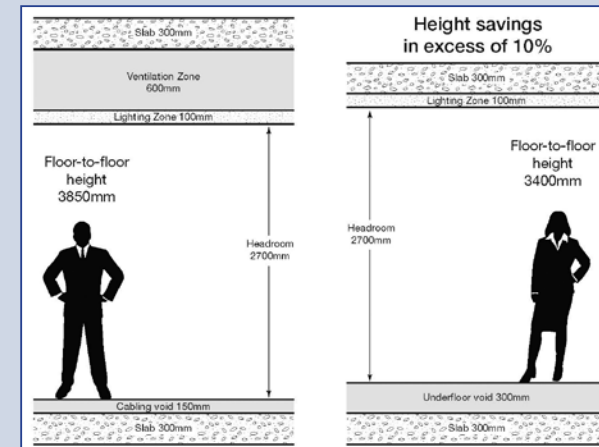
Our Products



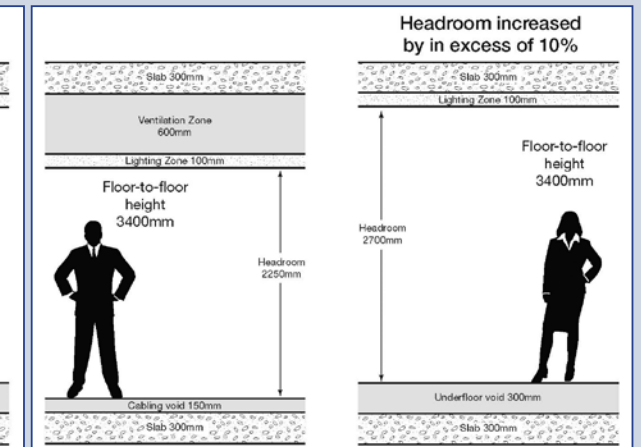
The Flexible Space Concept

Introduction to the principle of Flexible Space underfloor air conditioning and the benefits that all of the featured systems can provide.

In New Buildings, Flexible Space Offers **Height Saving**



In Refurbishments, Flexible Space Offers **Increased Headroom**

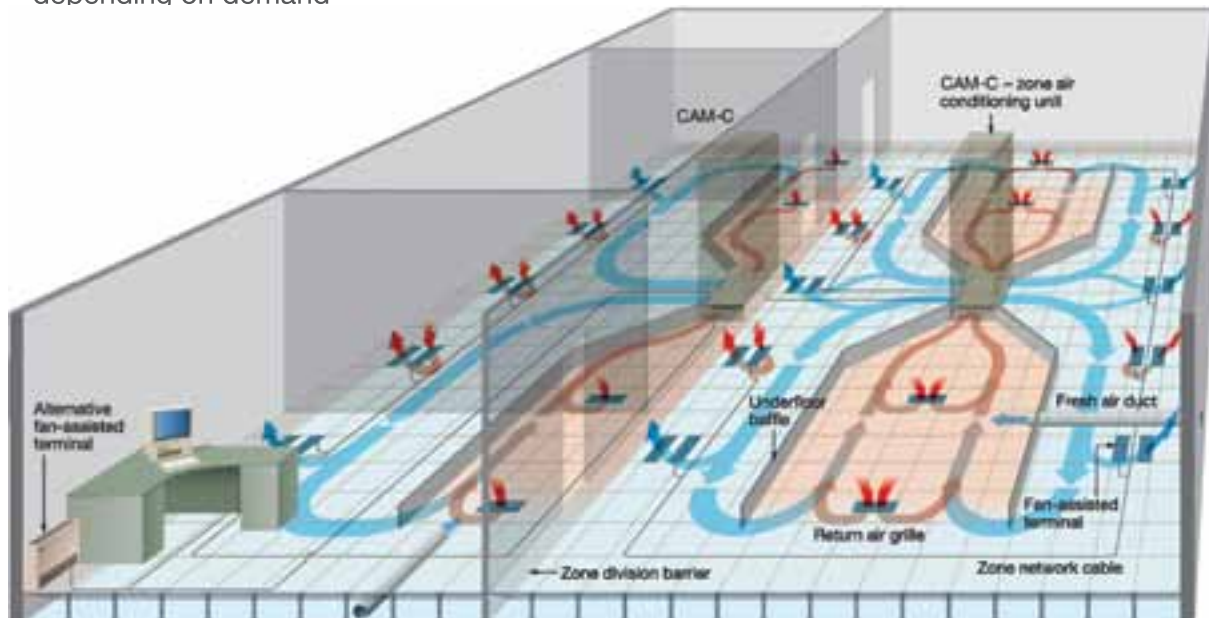


- Over 65 million ft² installed worldwide; including in extreme climatic conditions
- Can be used for both cooling and/or heating in a wide variety of workspaces
- Suitable for both new build and refurbishment projects
- Compatible with most types of raised access floors used to date
- Suitable for floor voids from as little as 150mm; 300mm is ideal
- Capable of operating with all-air central plant or zonal downflow units
- Free cooling available
- In refurbishment, can offer increased headroom through the absence of overhead services
- In new build can save height of up to 15% through the absence of ceiling plant
- Freedom in design through the absence of overhead services
- Floor and all fittings are classed as Plant and Equipment thereby increasing Capital Allowances
- Can save up to 90% in churn costs over ceiling systems through ease of reconfiguration
- Energy savings achieved through zonal control, reduced fan power or free reheat and cooling
- Can be incorporated with re-usable energy applications
- Can assist in achieving improved BREEAM or LEED scores
- Finest indoor air quality and user comfort

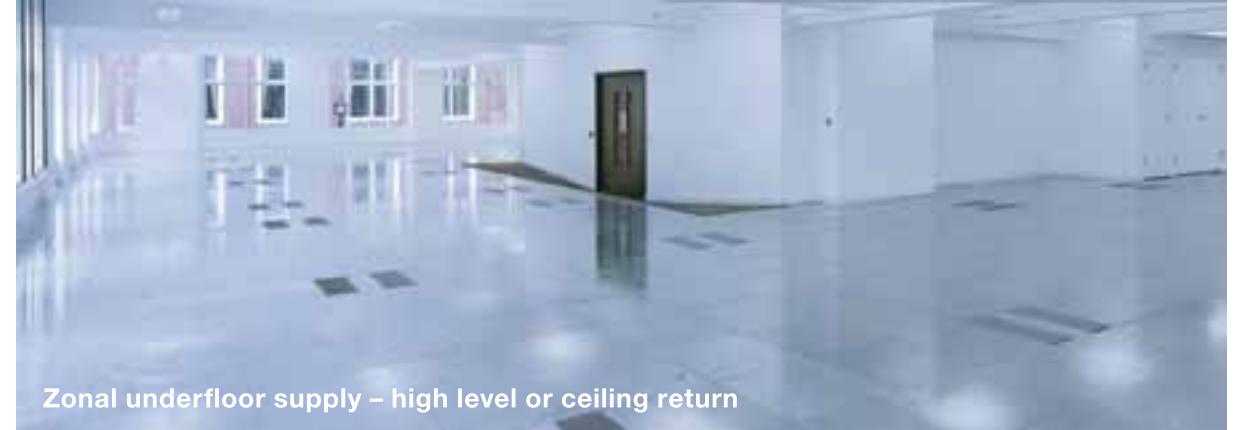
Option 1 AET CAM-C System



- Zonal downflow system
- Modular concept ideal for easy reconfiguration
- Constant volume, variable temperature supply
- Zones of 100-350m² depending on cooling loads
- Ceiling void not required
- Underfloor ducting not required
- Ideal for cellular offices
- Stringered floor system of minimum 150mm void required
- Range of performance capacities depending on demand
- Individual control
- No ducting or piping
- Air supplied to space through vertical fin floor grilles
- Phased installation permits delayed capital expenditure
- Low energy in use
- Zone units connected to data and power, water and drainage
- Particularly suitable for limited headroom applications



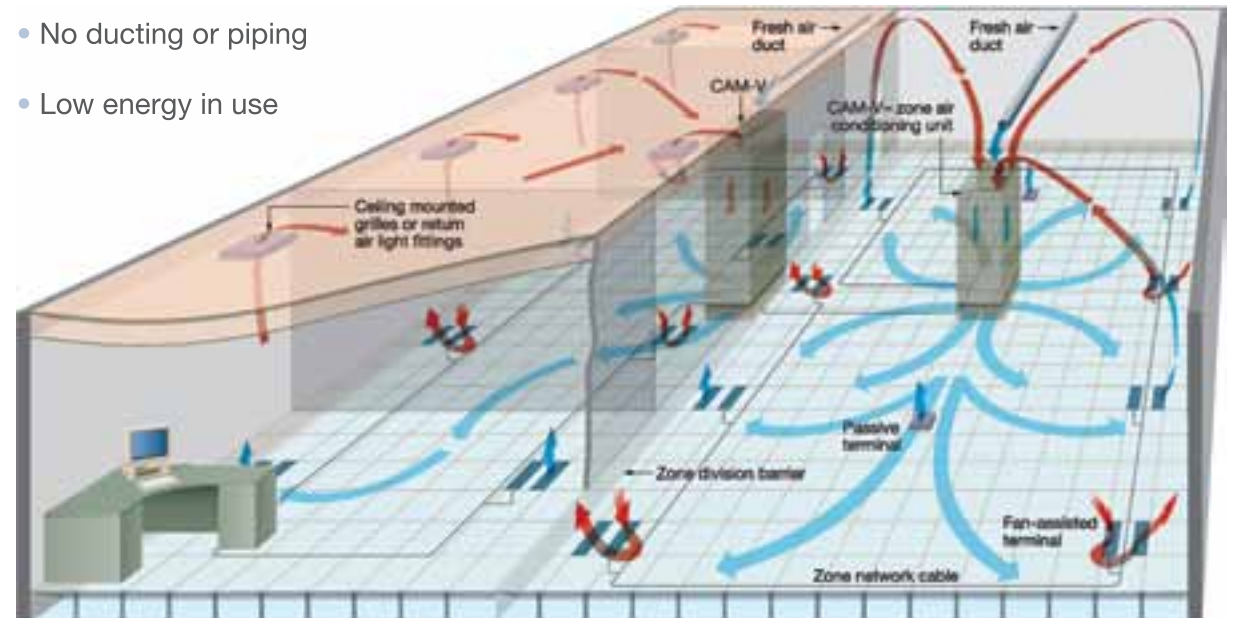
Option 2 AET CAM-V System



- Zonal downflow system
- Modular concept ideal for easy reconfiguration
- Variable volume & temperature supply
- Zones of 100-350m² depending on cooling loads
- Stringered floor system of minimum 150mm void required
- Zone units connected to data and power, water and drainage
- Ducting from ceiling to CAM-V unit if necessary
- Range of performance capacities depending on demand
- No ducting or piping
- Low energy in use



- Air supplied through vertical fin floor grilles
- Phased installation permits delayed capital expenditure



Option 3 AET PleinAir System



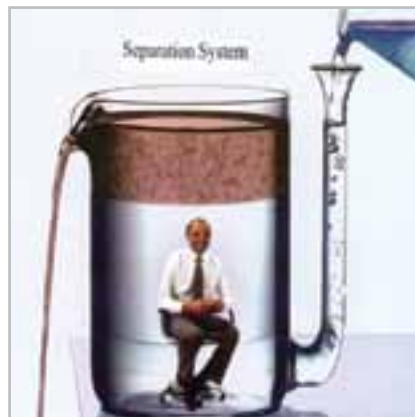
Central plant/zonal underfloor supply - High level or ceiling return

- Leed approved system
- Low carbon emission
- Energy efficiency
- Well mixed breathing zone
- Minimizing waste: "re-usable"
- Well smart control for human comfort
- Relocation? Only 5 mins
- Raised floor of min. 200mm void required
- Free cooling, VAV & low terminal pressure
- Electric heater box can be added very easily



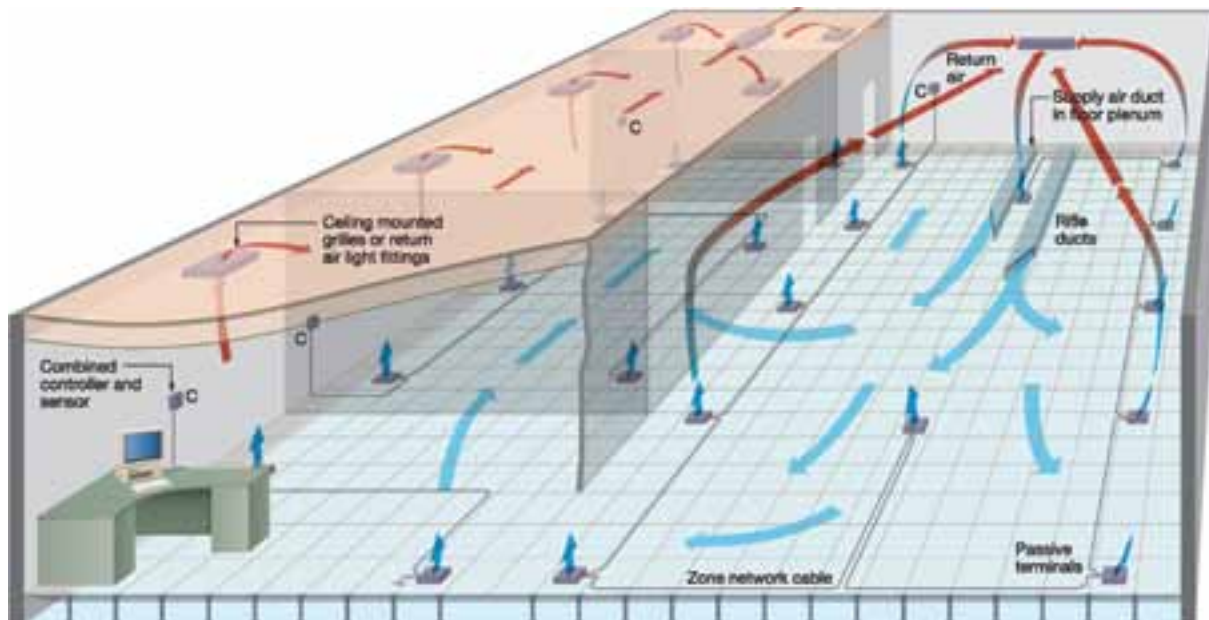
Traditional Air Distribution

Overhead Dilution System : Air is stagnant



Effective Air Distribution by AET

Underfloor Separation System : Air is well mixed



Time Modulation by AET PleinAir

The method of terminal air control has been used successfully in America and the Middle East for more than five years and the system concept has been in use for over eleven years with over 3 million sq m of office buildings successfully air conditioned. It is often working in ambient conditions up to 60°C in the summer and down to minus 28°C in the winter.

Effective Air Distribution by AET

The first thing to remind ourselves is we are using proven variable volume high induction ratio grilles. PleinAir passive terminals create a cool, forced flow, well mixed breathing zone which should not be confused with the displacement system concept which supplies warmer air at much higher volumes and cannot achieve the cooling loads that the PleinAir system can.

The best way to describe how the terminals work in the space is to use the analogy of a water sprinkler system.

If we take a typical perimeter zone of 6m wide by 4.5m deep we will need 4 cooling terminals. In Fig. 1 we have a No Flow condition and in Fig. 2 we have 100% Flow condition with good air distribution. With traditional damper control at part load condition we have an air throw pattern characteristic with Fig. 3 and the typical problem of reduced air throw and the beginning of stagnant areas if part load conditions continue. This situation will only continue to deteriorate as the system throttles back further.

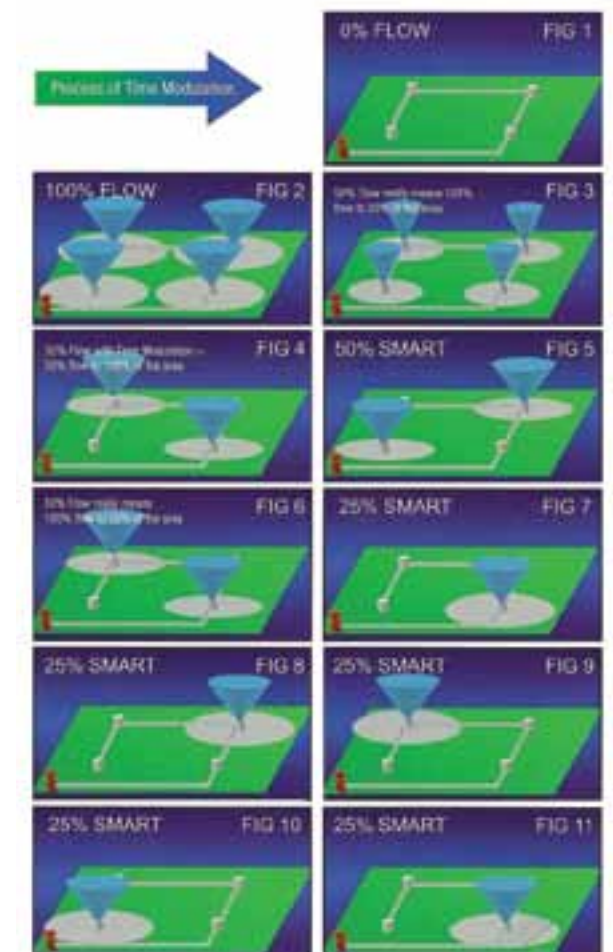
If we now look at Fig. 4 you will see the air distribution pattern when using Time Modulation. Two of the 4 terminals are supplying 100% air flow and after 6 seconds these close and the alternate terminals supply 100% supply air as seen in Fig. 4, 5 and 6.



VAV Time Modulated Diffuser with Round Grill



Constant Volume Diffuser with Personal Control





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