

Underfloor air distribution (UFAD) turns air supply upside down, allowing a floor plenum to deliver conditioned air to the space via floor diffusers in the raised floor system. The floor plenum typically consists of pedestals and removable floor panels that can be rapidly reconfigured. The space is divided into two zones: an occupied zone extending from the floor to head level, and the unoccupied zone extending from the top of the occupied zone to the ceiling. The systems are designed to condition the lower occupied zone only and the temperature conditions in the upper zone are allowed to float above normal comfort ranges. The fact that conditioned air is delivered at floor level do provide energy savings while improving comfort and indoor air quality. While this strategy is most effective in new construction, it also can work in major retrofits. Thoughtful design is the key to successful application. This 4-hour course discusses how the UFAD system differs from the conventional HVAC design and reviews several key design issues pertinent to UFAD design. This course is aimed at mechanical and HVAC engineers, architects, building designers, contractors, civil estimators, energy auditors, facility managers and general audience. No specific prerequisite training or experience is required. The course includes a multiple-choice quiz at the end, which is designed to enhance the understanding of course materials.

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Redefine your comfort zone. shakethatbrain.com energy solutions hospitals underfloor air distribution woodgrains. S fire rated. Underfloor air distribution (UFAD) is a method of delivering space By combining a building's heating, ventilating, and air-conditioning (HVAC) system with all. Until the s, there was one primary method to deliver ventilation and conditioned air into commercial spaces. The traditional HVAC system.

It wasn't until the mids that underfloor air distribution (UFAD) systems any type of service distribution system, modular wiring, HVAC ductwork (above). HVAC OVERVIEW OF THE UNDERFLOOR AIR DISTRIBUTION (UFAD). An Underfloor Air Distribution (UFAD) system uses the open space below a raised floor. Two additional alternative HVAC strategies are displacement ventilation and underfloor air distribution. For certain building types, this approach. VAC systems using underfloor air distribution (UFAD) promise mul- tiple benefits. Given the symmetric V-shape, the initial HVAC design strat-. Underfloor air-distribution (UFAD) systems deliver air to occupied spaces through floor-mounted outlets supplied by conditioned air from a Commercial HVAC. Underfloor air distribution (UFAD) is a strategy for providing ventilation and space conditioning in buildings as part of an HVAC system. UFAD. What is Underfloor Air Distribution (UFAD)? *Reconfigure HVAC easier than furniture 20% - 30% total energy savings vs. overhead HVAC system.

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