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Duct Configuration for HORD Systems

The HORD consists of four separate plenum/slot combinations, each having multiple inlets to allow precise balancing and flow equalization.

1. The HORD diffusers and LFD diffusers should be fed from separate branch ducts, each having a splitter damper at the main duct takeoff. These dampers should be used to achieve design flow to either the HORD diffuser array or the LFD diffuser array. Dampers should be accessible from the room or interstitial space (if available).
2. The HORD array should be fed with 2 branches, each supplying 2 HORD sections.
3. Trim balancing dampers should be supplied either at each HORD/LFD inlet takeoff or at the HORD/LFD inlet. Trim dampers are used to achieve proper proportion of air flow at each inlet.

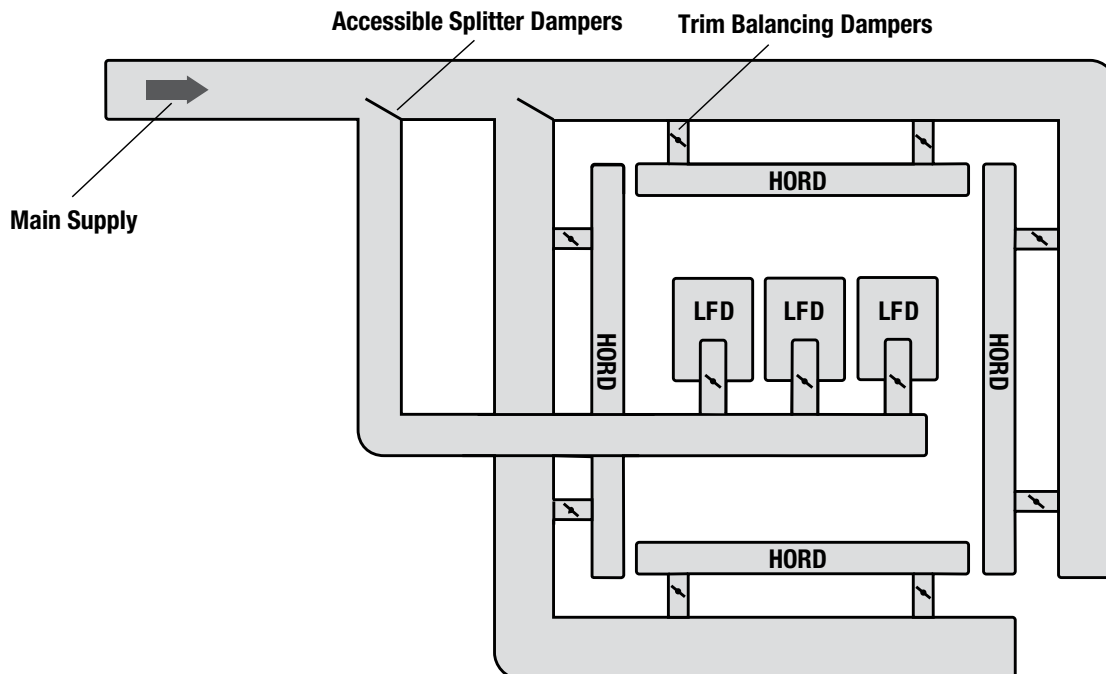


Figure 1. Plan view of modular HORD system.



October 2012

4. Continuous plenum HORD systems do not require supply air to all four sides.
5. In a continuous plenum system, it is recommended to have a minimum of two HORD sections receiving primary supply air, situated opposite each other.

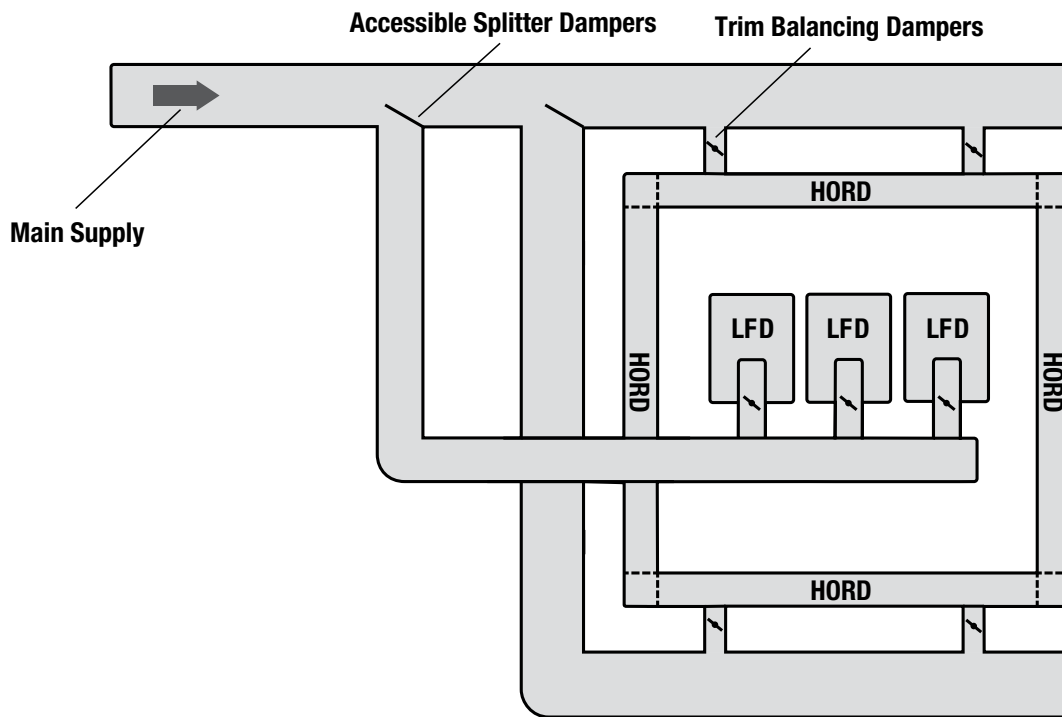


Figure 2. Plan view of continuous plenum HORD system.