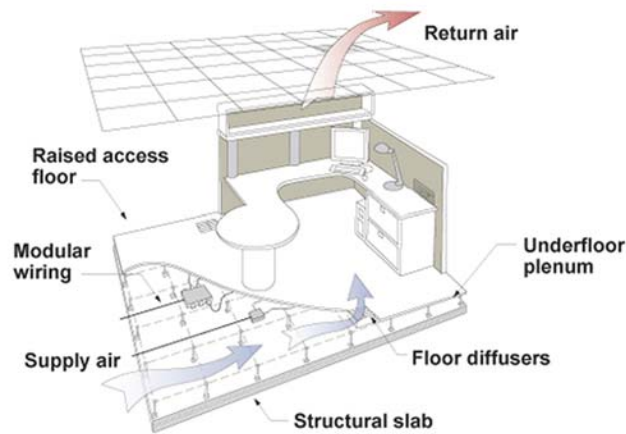


Under Floor Air Distribution



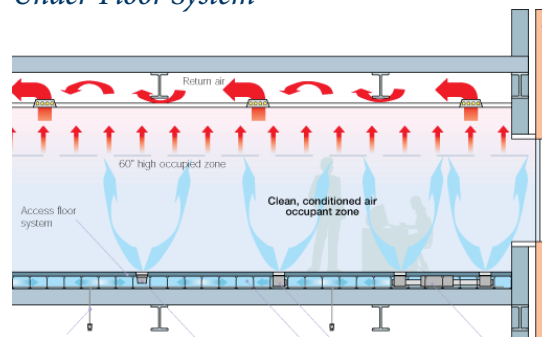
Westway Building III will include an under floor air conditioning system (UFAD). In general, UFAD uses the same air-conditioning equipment, namely, chillers, pumps, cooling towers and AHUs as in conventional air-conditioning system. The main difference between the two is the manner that air is being distributed. Conventional system supplies air from the ceiling level while UFAD supplies air from floor level and returns to the air-handling unit from the ceiling.

UFAD by virtue of its design has the advantage of moving air in the same direction as the thermal lift in the room. Heat generated from the occupied zone normally moves upwards. This upward movement helps the UFAD in removing heat from the occupied zone. It is important to note that the conventional system supplies air from the top and continuously fights against the thermal lift. The cool supply air mixes with the rising heat from the occupied zone and it will require a colder supply air to provide the same space conditions.

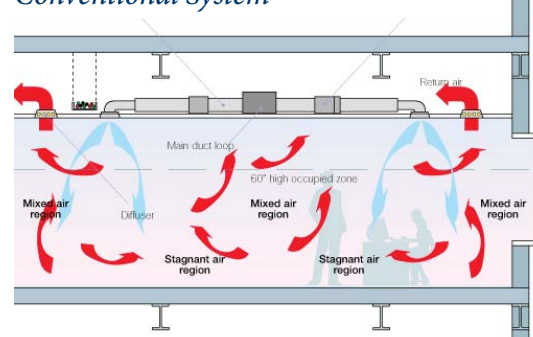
UFAD has additional benefits from an operational standpoint. As the air does not need to be as cold to achieve the proper cooling temperature, less energy is required to cool the spaces. Also, because the outside air required to be mixed with the return air in the space enters from the floor, occupants in the space benefit from 100% of the outside air introduced, improving indoor air quality. Finally, individuals control their own "zone" using adjustable floor registers, reducing "hot & cold" complaints, increasing comfort and productivity.



Under-Floor System



Conventional System



■ Warm Air ■ Cool Air

