

Breadth Topics

Acoustical Breadth

If a variable refrigerant flow system is used, there will be a need for only a small air handler in order to supply the required outside air. The air handler will be placed on the roof because, with a VRF system, there is not a need for as much mechanical room space and they can probably even be eliminated. The air handler and the condenser for the VRF system will both make noise and an acoustical study will be done to determine the required material that must surround each of them to minimize the noise to an acceptable level.

Structural Breadth

If a variable refrigerant flow system is used, the three large air handlers will be eliminated thus (possibly) reducing the structural requirements for the two mechanical rooms where the air handlers used to be. There will also have to be increased structural requirements for the roof in order to support the condenser and the air handling unit.