



Biosafety Level 2 + Area High Efficiency Particulate Air Filtered Air Handling Unit

Photographic documentation of equipment acquired through the Mexican National Science & Technology Council (CONACYT) 2019 grant #0299608 “Upgrade and Maintenance of Molecular and Biosafety Infrastructure: Human & Viral Genomics Laboratory, UASLP School of Medicine”.

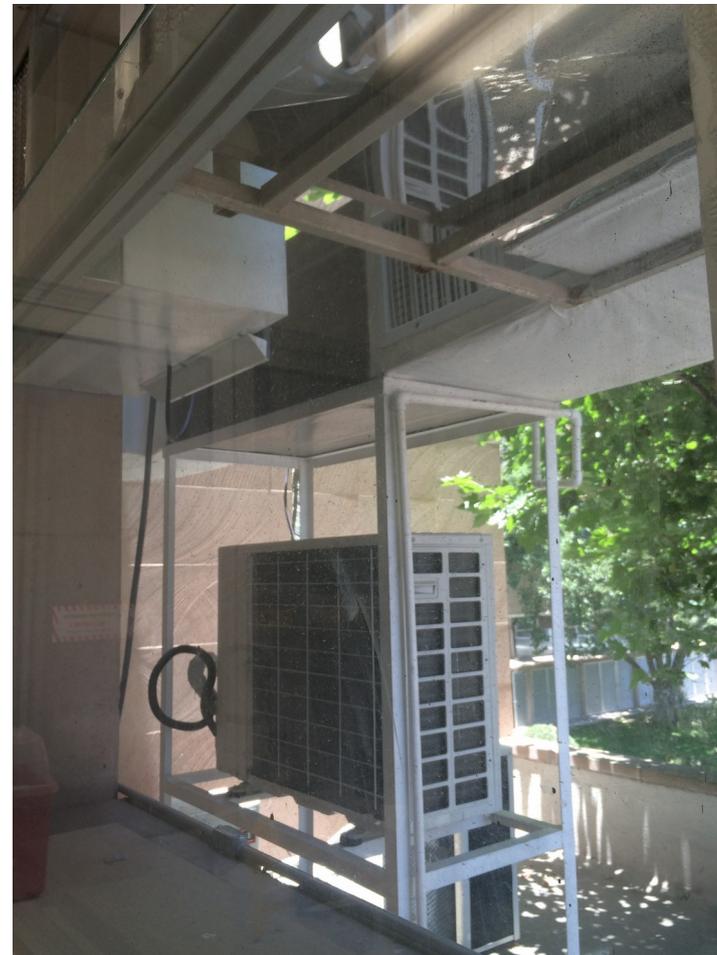
Air Handling Unit

An air handling unit (often abbreviated to AHU), is a device used to regulate and circulate air as part of a heating, ventilating, and air-conditioning (HVAC) system.. An AHU is usually a large metal box containing a blower, heating or cooling elements, filter racks or chambers, sound attenuators, and dampers. AHU's typically connect to a ductwork ventilation system that distributes the conditioned air through the building and returns it to the AHU. Sometimes AHUs discharge and admit air directly to and from the space served without ductwork

The grant provided \$120,000 MXN (\$6,350 USD) for reparative work on filter stack, blower motors, condenser and evaporator as well as \$200,000 MXN (\$10,600 USD) to pay up-front for a five year maintenance service contract with Climas y Refrigeración del Centro SA de CV, the same provider that assembled the main AHU.

Current AHU is equipped with two High-efficiency particulate air (HEPA) filters to provide environmental protection from accidenta release of airborne pathogens. One is located on the main recirculation shatf, while the second one is placed on the purge extractor blower duct. Filters meeting the HEPA standard must satisfy certain levels of efficiency. Common standards require that a HEPA air filter must remove—from the air that passes through—at least 99.95% (European Standard) or 99.97% (ASME, U.S. DOE Standard) of particles whose diameter is greater than or equal to 0.3 μm .

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CONVOCATORIA 2019

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