

AQUIS Compliance Document

- ASHRAE 62.1 – 2016 “Ventilation for Acceptable Indoor Air Quality”

ASHRAE 62.1 Compliance

ASHRAE 62.1 sets specific requirements for the design and operation of HVAC drain pans to ensure acceptable indoor air quality. The purpose of these requirements is to ensure that no standing water is present in the drain pan. Standing water within drain pans represents a possible source of pathogenic biologic agents in an HVAC air handling unit.

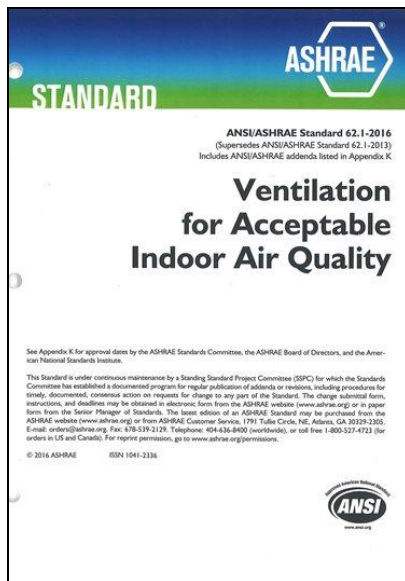
The ASHRAE 62.1 requirements for HVAC drain pans are as follows:

ASHRAE 62.1 Requirements:

- Drain pan slope is at least 0.125 in. per linear foot
- Drain outlet is at the lowest point of the drain pan
- P-Trap or other seal is present for negative pressure drains

The AQUIS System exceeds the requirements of AHSRAE 62.1 as it is installed in drain pans at a slope of 0.250 in. per linear foot, twice the requirement of the standard. Furthermore, the AQUIS System will raise the surface of the drain pan floor until the drain outlet is the lowest point of the drain pan, ensuring successful drainage.

AQUIS does also address improper P-Trap configuration for negative pressure or draw-through air handling units. AQUIS also has a unique solution for negative pressure drains that lack the necessary vertical clearance and cannot utilize a properly configured P-trap.



5.11 Drain Pans. Drain pans, including their outlets and seals, shall be designed and constructed in accordance with this section.

5.11.1 Drain Pan Slope. Pans intended to collect and drain liquid water shall be sloped at least 0.125 in. per foot (10 mm per meter) from the horizontal toward the drain outlet or shall be otherwise designed to ensure that water drains freely from the pan whether the fan is on or off.

5.11.2 Drain Outlet. The drain pan outlet shall be located at the lowest point(s) of the drain pan and shall be of sufficient diameter to preclude drain pan overflow under any normally expected operating condition.

5.11.3 Drain Seal. For configurations that result in negative static pressure at the drain pan relative to the drain outlet (such as a draw-through unit), the drain line shall include a P-trap or other sealing device designed to maintain a seal against ingestion of ambient air while allowing complete drainage of the drain pan under any normally expected operating condition, whether the fan is on or off.

Joint Commission & U.S. Green Building Council Note

It should also be noted the ANSI/ASHRAE 62.1 Standard is a requirement for *The Joint Commission* and is a prerequisite to meet the *U.S. Green Building Council's* Indoor Environmental Quality standards for LEED Accreditation.