AHU Certify-All Flowchart

AHU definition from PSOM: A factory-made encased assembly consisting of a fan or fans and other necessary equipment to perform one or more of the functions of circulating, cleaning, heating, cooling, humidifying, dehumidifying and mixing of air. It shall not contain a source of cooling or heating other than gas or electric heat. The AHU shall have a maximum design external static pressure (ESP) greater than 1.0 in H₂O [0.25 kPa]. While the ESP for a specific application may be less than 1.0 in H₂O, any units generally capable of delivering greater than 1.0 in H₂O ESP shall be considered to be an AHU. This certification program applies to supply fan ratings for plenum fans in a cabinet with a full face opening axial discharge, fan arrays in a cabinet, housed centrifugal fans, and axial fans.
Is the fan(s) airfoil, backward-inclined, forward-curved, or axial?

What type of drive does the unit have?

Is it a motorized impeller?

Is your unit sold within the Intended Market (US and Canada)?

Does the unit have an airflow greater than 50,000 cfm?

Does the unit have a maximum design pressure greater than or equal to +10” or less than or equal to -10” H₂O?

Your unit is part of the scope exclusions but may be optionally certified.

Your unit is within the scope of AHU 430 cert. program and subject to certify-all.

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Plenum AHU Certify-All Flowchart

Is the fan(s) airfoil or backward-inclined?
- Yes
  - Is the discharge parallel to the shaft of the fan(s)?
    - Yes
      - Not eligible for certification in the 430 program
    - No
      - Not eligible for certification in the 430 program
- No
  - Not eligible for certification in the 430 program

What type of drive does the unit have?
- Direct
- Belt
- Other

Is it a motorized impeller?
- Yes
  - Not eligible for certification in the 430 program
- No
  - Does it have a fan array?
    - Yes
      - Not eligible for certification in the 430 program
    - No
      - Does your unit sold within the Intended Market (US and Canada)?
        - Yes
          - Continue, if optional certification is desired
        - No
          - Not eligible for certification in the 430 program

Does the unit have an airflow greater than 50,000 cfm?
- Yes
  - Your unit is part of the scope exclusions but may be optionally certified.
- No
  - Your unit is within the scope of AHU 430 cert. program and subject to certify-all.

Does the unit have a maximum design pressure greater than or equal to +10" or less than or equal to -10" H2O?
- Yes
  - Your unit is part of the scope exclusions but may be optionally certified.
- No
  - Continue, if optional certification is desired