NSF Standard(s) Impacted: NSF/ANSI 49-2019

Background:
Provide a brief background statement indicating the cause and nature of concern, the impacts identified relevant to public health, public understanding, etc., and any other reason why the issue should be considered by the Committee. Reference as appropriate any specific section(s) of the standard(s) that are related to the issue.

During the recent general revision of Airflow Alarm Language in Section 5.25 (issue 59), the Task Group created a new section to include Type A1, A2 and C1 Cabinets (section 5.25.6). During this process, language was added regarding performance requirements from a BSC starting from a dead stop:

When starting the cabinet blowers from a dead stop, the inflow alarm must activate a visual indication until the cabinet either enters into a visually indicated warm up period not to exceed 2 minutes or the appropriate inflow velocity is achieved to ensure proper alarm system function.

Placing a limit on the warm up period in this section means it only applies to cabinets that have a low inflow alarm. As such, if there is a low inflow alarm present, it is limited to 2 minutes. If there is no inflow alarm present, the BSC could technically have a multi-hour warm up and still comply with the standard. If the standard is to specify a maximum warm up period, this is not the place for it.

Recommendation:
Clearly state what action is needed: e.g., recommended changes to the standard(s) including the current text of the relevant section(s) indicating deletions by use of strike-out and additions by highlighting or underlining; e.g., reference of the issue to a Task Group for detailed consideration; etc.

5.25  Alarms

   5.25.6  Type A1, A2, or C1 cabinet low inflow alarm

Type A1, A2, or C1 cabinets may contain an inflow alarm system to alert the user of a potential loss of personnel protection. When present, an audible and visual alarm shall be required to indicate within 15 seconds of reaching the manufacturer-specified inflow alarm set point.

When starting the cabinet blowers from a dead stop, the inflow alarm must activate a visual indication until the cabinet either enters into a visually indicated warm up period not to exceed 2 minutes or the appropriate inflow velocity is achieved to ensure proper alarm system function.

If the manufacturer-specified inflow velocity alarm set point is more than 10 ft/min (0.051 m/s) less than the nominal inflow velocity, the test as specified in Section N-1.6.3.1.h will be performed with the inflow velocity at this set point ± 3.0 ft/min (0.015 m/s).

If the manufacturer-specified inflow velocity alarm set point is no more than 10 ft/min (0.051 m/s) less than the nominal inflow velocity, the inflow alarm point shall be tested as specified in Section N-1.6.3.1.h.
Supplementary Materials (photographs, diagrams, reports, etc.):
If not provided electronically, the submitter will be responsible to have sufficient copies to distribute to committee members.

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