US Consumer Product Safety Commission
Log of Meeting

Subject: CANENA UL/CSA 60335-2-40 Sub Working Group Meeting to Discuss GFCI Requirements as they Pertain to HVAC Systems
Date: May 25, 2021
Location: Teleconference
Prepared By: Einstein Miller (emiller@cpsc.gov, 301-987-2469), May 28, 2021

CPSC Attendees: Einstein Miller
Non-CPSC Attendees: Contact The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) for a list of attendees

Summary of Meeting:
Contact AHRI for more details of this meeting.

This was the second meeting for the sub working group of CANENA UL/CSA 60335-2-40 working group. The sub working group (SWG) is focused on the ground fault circuit interrupter (GFCI) requirements for HVAC systems. Article 210.8(F) of the 2020 edition of the National Electric Code (NEC) added a GFCI requirement for outdoor outlets, including those providing power to HVAC equipment. Since the implementation of this requirement a number of HVAC manufacturers and installers have received numerous complaints of nuisance tripping of the GFCI protection.

The meeting began with the group continuing the previous discussion for a proposed test plan to test the leakage current of residential heat pumps and air conditioning units. The group determined the short-term goal for the test plan is to develop representative ground leakage data for outdoor units during system tests. The group's long-term goal for the test plan is to determine how to comply (or revise) NEC 210.8(F). The group established a deadline of June 18, 2021 for data collection and June 30, 2021 for standard completion.

Continuing the discussion on the test plan, group members representing equipment manufacturers agreed to measure leakage current across Line 1 and Line 2 of their respective equipment. The members were given an action item to provide a response by noon on May 28, 2021 on whether they will be able to complete the equipment testing.

CPSC staff will participate in the next meeting of the SWG scheduled for Friday, June 4.