

GAC Report

Date: 04.04.2024

Chapter Chair: GAC
Event: Project committee meeting (5/2024) development of SIRIM Industry Standard on Healthy Purification of Refrigerating Appliances for Household and Similar Use
Organization: SIRIM STS Sdn Bhd
Government Agency: SIRIM STS Sdn Bhd
Organised By: SIRIM STS Sdn Bhd
Date: 27th March 2024
Time: 9.30am to 1.30pm
Place: Online via Microsoft Teams
Report By: Dr Chin Wai Meng
MASHRAE Rep: Dr Chin Wai Meng
Air Conditioning industries: Midea (China), Daikin, MACRA
Other participants: SIRIM, Jabatan Kimia Malaysia, Universiti Malaya, Universiti Teknologi Mara
Report: The meeting was conducted fully online via Microsoft Teams.

In this meeting, the committee continued on discussing the test methods put up in the draft standard:

- For Annex A (Deodorization performance), SIRIM QAS has proposed a new test method based on ISO 22197-5 standard. The committee has accepted this and SIRIM QAS will amend and prepare write-up for this test method.
- For Annex C (Eliminating bacterial for air), Daikin R&D Malaysia will refine the write-up of the test method.
- For Table 2, a revised healthy purification grading level was adopted:

A clean version of the draft standard will be sent out by 29/3/2024 to all committee members for review and amendments.

All members shall review, provide amendments, as per in the meeting and feedback, to the secretary not later than 4th April 2024.

This is the final working group meeting. Next, the Secretariat will prepare the final draft for public comment, which will be informed later.

Proposal A: Increasing requirement and criteria to higher grade

Reference: GB 21551.4 Clause 4.2(a)

Health purification rate	Evaluation criteria				
	Deodorisation Rate	Antibacterial Rate	Bacterial Elimination Rate for Air	Bacterial Elimination Rate for Surface	Mould prevention Grade
A	>60%	>90%	NA	NA	Grade ≤ 1
A+	>90%	>99%	>90%	NA	Grade 0
A++	>90%	>99%	>90%	>99%	Grade 0

Midea commented >90% is hard to achieve

Entry Grade / Minimum requirement →

Reference: GB 21551.4 Clause 4.3

Reference: 1) ASTM G21-15 Clause 9.3.1
2) GB 21551.4 Clause 4.2(b)

Increasing requirement and criteria to achieve higher grade

Adopted revised Table 2.

Photos: No photos available.