

ASHRAE TC 10.7
Commercial Food & Beverage Refrigeration Equipment
2024 Summer ASHRAE Meeting

Monday, 24 June 2024, 2:00PM– 4:00PM EST

Hybrid Meeting:

JW Marriott, White River IJ and Microsoft Teams

MINUTES

a. Welcome & Introductions

- i. Meeting called to order.

b. Review and Revise and Approve Agenda

- i. Approved

c. Determination of Quorum

- i. Quorum present 5/1/1 (VM, VMNQ, ABSENT)

d. Review and approve draft minutes from June Annual and September Interim meetings.

- i. Approved

e. Review Scope / MBO's

- i. **TC10.7 Scope:** TC 10.7 is concerned with the application and performance of equipment and systems for the refrigeration of food and beverages in commercial operations. This includes commercial equipment such as refrigerated merchandisers and storage cases, walk-in freezers, and coolers.
- ii. **TC10.7 MBO's (Objectives):** - The pursuit of technological advancement of commercial food and beverage equipment and systems to enhance overall performance through improved food safety, food quality, energy efficiency, and reduced environmental impacts. -To provide engineering design, application knowledge, and technical expertise to effectively support research and the Refrigeration handbook chapters and standards for which we are responsible.

Recognition of Liaisons and Announcements

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|-----------------------------------------------------|------------------|
| iii. Section Head: | G.D. Mathur |
| iv. Program Committee Liaison: | TBD |
| v. Research Committee Liaison: | WenBin NG |
| vi. Handbook Committee Liaison: | Kevin Muldoon |
| vii. Chapter Technology Transfer Committee Liaison: | TBD |
| viii. Standards Committee Liaison: | Kwang Woo Kim |
| ix. Refrigeration Committee Liaison: | Cameron Labunski |
| x. ALI/PDC Liaison: | TBD |
| xi. MTG Low GWP Liaison: | Brian Fricke |

f. Membership:

i. Management Team

- Chair: Stephen Schaefer (VM 06/25)
 - Vice Chair: Niles Purohit (VM 06/27)
 - Secretary: Neil Monson (VM 06/24)
 - Research Subcommittee Chair: Vishaldeep Sharma (VM 06/25)
 - Standards Subcommittee Chair: Jon Murray
 - Program Subcommittee Chair: Jian Sun (NV)
 - Handbook Subcommittee Chair: Brian Fricke (NV)
 - Webmaster: Neil Monson (VM)
- ii. Additional Voting Members:** Cesar Lim [Non-Quorum] (06/25), Ramiro Avila (06/24), Jeff Bauman (06/27),

g. Liaison Reports

- i. GD – 54-page summary. Overview/summary was shared by GD.
- ii. BF – MTGLGWP – Committee relevance? Yes still relevant and should continue decided at Chicago. Wed 10-12 in Indy.

h. Standards (Jon Murray)

- i. **ASHRAE 29** – MOT Automatic Ice Makers
 - a. Not meeting this cycle. Submitted to STANDARDS, awaiting a public review. Stephen to check on status. JM to Ping Mark Weber to confirm they have received it and have everything they need.
- ii. **ASHRAE 32.1**, MOT for Rating Vending Machines for Bottled, Canned and Other Sealed Beverages (2017)
 - b. Republished in 2022.
- iii. **ASHRAE 32.2**, MOT for Rating Premix and Postmix Beverage Dispensing Equipment
 - c. Reaffirmed in 2022.
- iv. **ASHRAE 72** MOT Open and Closed Commercial Refrigerator and Freezer
 - d. Published a little over 2 years with addendum in October 2023. No real work remaining currently.
- v. **ASHRAE 210**, MOT for Rating Commercial Walk-in Cooler and Freezer Equipment,
 - e. Has not met in 2 years. Vishaldeep is new chair and has submitted the required paperwork. Will meet next meeting. Been in the works since 2012 without publishing.
- vi. **ASHRAE 220**, MOT for Rating Small Commercial Blast Chillers, Chiller-Freezers, and Freezers
 - f. Met Monday. Some remaining editorial clean up to do. Should have something to committee for ballot in the next couple of weeks. PR by the end of the year with winter meeting as goal for completion. Updated STANDARDS SPLS Liaison and got next steps.

i. Programs (Jian Sun)

- i. Panel discussion this AM related to standards related to A2L and A3 on retail food refrigeration. Good discussion and questions. Idea is to expand to a seminar next meeting. Panelists from today are on board to this, but if anyone else is interested please let Kaimi Gao know prior to August 2, 2024.
- ii. Other ideas
 - Design challenges related to implementation of changing regulation landscape on equipment. Engage AHRI?
 - Frosting on ice makers
 - RP1831 results. Incorporate with other frosting related topics. Defrost tech with ice makers?
 - Meet in the next 1-2 weeks to flesh out topics for Orlando.

j. Research (Vishal Sharma)

- i. RP1831 – Testing and final report wrapped up. Stefan gave a brief update. First comments have come in. Set deadline for comments? Will need a letter ballot of the TC once PMS has approved and finalized the report.
- ii. New research topics – Research related to commercial kitchen installation and risk mitigation around the 20' open flame rule. Needs more research to support a change. First check with AHRI to see what they have planned or not.
- iii. ASHRAE 72 – No method of testing for liquid overfeed CO2 systems (Neshan). More and more requests for this equipment. (Neshan). Expand to a larger range of refrigerants (Nilesh)?

k. Handbook (Brian Fricke)

- i. We have two chapters. Progress has been made. Goal is to have completed and approved by February 2025 for publication in 2026.

l. Website (Neil Monson)

- i. Please contact Neil Monson if you would like to have access to TC 10.07 Basecamp site.

m. New Business

- i. ASHRAE would like us to update our scope to include residential refrigeration. A draft scope was prepared but this item was tabled until we could have actual input from a member of TC 8.9.
 - TC 10.7 is concerned with the application and performance of equipment and systems for the refrigeration of food and beverages in commercial [and residential operations](#). This includes equipment such as [refrigerators and food freezers](#), refrigerated merchandisers and storage cases, walk-in freezers and coolers [and commercial ice makers](#).
- ii. Neshan – ISO MOT SC7 WG3 Item 1 – Refrigerated lockers. Monthly meetings going on so please be aware and participate if you have interest. You must go through ANSI “expert determination” process to participate.
- iii. Neshan – Harmonization between ISO and ASHRAE 72. Talking about it.
- iv. Neshan – A2L and PFAS. Growing restrictions in Europe.

- v. Neshan – IIR US National Committee. They meet regularly Tuesday 2 PM. Come and participate and take part in the discussion. Room 310.
- vi. Bauman – Gaps in ASHRAE 72. Need to take some steps to close those.
- vii. Nilesh – Since we are considering the residential scope change it might be important down the line to have expertise on foam insulation materials? Probably not since we are most interested in MOT not PERFORMANCE.
- viii. Shitong – Total system efficiency and environmental impact analysis. Would propose a certificate of expertise to do this sort of evaluations.

n. Adjournment

Upcoming ASHRAE Conferences:

Winter 2023 Conference Feb. 4-8, 2023 – Atlanta, GA
Summer 2023 Conference June 24-28, 2023 – Tampa, FL
Winter 2024 Conference Jan. 20-24, 2024 – Chicago, IL
Summer 2024 Conference June 22-26, 2024 – Indianapolis, IN
Winter 2025 Conference Feb 8-12, 2025 – Orlando, FL
Summer 2025 Conference – June 21-25, 2025 – Phoenix, AZ