

MINUTES

DRAFT / UNOFFICIAL

TECHNICAL COMMITTEE 8.7

2023 Winter Conference

February 6, 2023

Note: These draft minutes have not been approved and not the official, approved record until approved by the Technical Committee.



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DRAFT

TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. 8.7 DATE

TC/TG/MTG/TRG TITLE Variable Refrigerant Flow

DATE OF MEETING February 6, 2023 LOCATION Atlanta, Georgia

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Shawn Andrews, Chair	2022			
Scott McGinnis, Vice Chair	2022			
Douglas Tucker, Secretary	2021			
Kyle Gluesenkamp	2022			
Walter Hunt	2022			
Badri Patel	2022			
Christopher Williams	2022			

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head:	SH8@ashrae.net Where x is the section number
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	See ASHRAE email alias list for needed addresses.
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

1. Call to Order and Introductions

The meeting was called to order at 1:00pm.

- a. **Code of Ethics** – The Chair reviewed the ASHRAE Code of Ethics statement.
- b. **Anti-Trust Policy** – The Chair reviewed the ASHRAE Anti-Trust statement.
- c. **Introductions** – Introductions were made.

2. Minutes

- a. No minutes were distributed from the previous (unofficial) meeting. Roster issues, which meant that the TC had only one or two official voting members at the time, have been mostly resolved (see below).

3. Chair Update

- a. The Chair provided an update from the TC chair breakfast: The Annual Conference program deadline is February 27. ASHRAE will track international TC members, outside of the US and Canada. Roster issues have been fixed, with additional members added, and future changes effective July 1, 2023.
- b. Prospective TC members should send their email with ASHRAE member number to ASHRAE staff if they cannot get an application online.

4. Agenda Review

- a. The agenda was not posted or circulated but reviewed and accepted during the meeting.

5. Sub-Committee Reports

- a. **Handbook:** Chris Williams reported that Chapter 18 edits and additions for the 2024 HVAC Systems and Equipment handbook have been completed and submitted to ASHRAE staff through the Handbook Portal. A review period of 30 days will be provided to TC 8.7 members.
- b. **Membership:** Madhav Kashinath asked for a volunteer to handle membership.
- c. **Programs:** Badri Patel reported that the TC 8.7 program submittal for Atlanta was not approved. For the 2023 annual conference, a few tracks are offered that may be of interest to TC 8.7: HVAC&R systems, Energy & Decarbonization. Scott volunteered to help Badri with proposals. One possible topic is the publication of AHRI 1230-2021 and the DOE test procedure for VRF, with revised efficiency levels effective on January 1, 2024.
- d. **Webmaster** Badri reported that he needs to contact ASHRAE staff regarding use of the TC website interface. It may be beneficial to move document distribution to Basecamp.
- e. **Research:** Chris Laughman was not in attendance. Doug volunteered to follow up with Chris to determine whether he intends to continue as research subcommittee chair.
- f. **ALI.** Brian Bogdan reported that the VRF training class needs to be revised. At the meeting in Toronto, John Cummings, Walt Hunt, and Chandra Gollapudi volunteered to collaborate with Brian on the update. One specific area to update is standards and code compliance with UL 60335-2-40 and ASHRAE Standard 15. Another update is the efficiency testing change with AHRI 1230-2021 and IEER/EER levels that are effective on 1/1/2024.
- g. **Standards:** Chandra Gollapudi.
 - i. UL 60335-2-40, 4th edition, was published in December 2022.
 - ii. ASHRAE 62.2, issued IAQ Procedure revision public review draft.
 - iii. ASHRAE 90.2 issued draft IEQ requirements for public review.
 - iv. ASHRAE 90.1 added DX-DOAS efficiency table revisions.

6. Liaison reports

- a. ASHRAE 90.1: John Cummings reported that the committee is focusing on decarbonization and renewable energy. The committee identified an error in the 2022 edition VRF efficiency table for <65,000 Btu/h, which should reference AHRI 210/240. No motions during this meeting affected VRF equipment.
- b. ASHRAE 62.1: no report

- c. ASHRAE 205: Walt reported that the 205 has been published but does not include VRF. The SSPC 205 VRF working group met twice in 2022 with a goal of providing a data entry method.
- d. ASHRAE SGPC 41: Chris intends to republish the standard after the five planned addenda are approved. A continuous maintenance proposal (CMP) was received for operation of VRF systems during building construction.
- e. ASHRAE 189.1: no report
- f. ASHRAE 15: Addenda are in development for data centers, terminology, retrofit safety (A1 to A2L), and pressure test values.
- g. ASHRAE MTG.LowGWP: Short comment on meetings coming in next 2 days; encourage attendance.

7. Old Business

- a. Membership issues have been addressed by ASHRAE staff. Roster will be growing and voting status corrected.
- b. Research Subcommittee: verifying that Chris will continue to chair.

8. New Business

- a. The TC agreed that it would be good to have a speaker at every meeting, addressing a topic of interest.
- b. UL research on undercut doors (flow of refrigerant and verification that spaces are connected)?
- c. Kevin Frost, Slipstream, volunteered to report on an energy benchmarking study.
- d. Need to advise Standard 15 on Refrigerant Detection System / Sensor Location for VRF equipment.

9. Adjourn

- a. The meeting was adjourned at 2:40pm.