

ASHRAE TC 8.11
Unitary and Room Air Conditioners and Heat Pumps
Meeting Minutes

2025 ASHRAE Winter Conference
Hybrid

Main Meeting

Monday, February 10th 2:30 PM – 4:30 PM EDT
Lake George B (Lobby Level)

Sub-Meeting

Sunday, February 9th 4:00 PM – 6:00 PM EDT
Lake Louise A (Lobby level)

1. Call to order

Creamer

Chair called meeting to order @ 4:00pm

2. Code of Ethics

In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.

3. Review Scope

Technical Committee 8.11 is concerned with products for use in comfort cooling and/or heating systems. The factory-engineered vapor compression systems include: (1) unitary equipment which generally requires the field engineering of the product mounting and ducting, piping and electrical connections, (2) room air conditioners such as window mounted units and ductless split systems and (3) packaged terminal equipment. Specifically excluded are unitary combustion-engine driven systems.

4. Introductions

All

5. Determination of a quorum

Dhillon

VOTING MEMBERS FOR THIS MEETING (Need 5 for a Quorum)

X	Parveen Dhillon	6/30/2028		Chris Stone	6/30/2028
X	Michael Creamer	6/30/2026	X	Andrew Hjortland	6/30/2025
X	Chad Kirkwood	6/30/2028	X	Kevin McFadden	6/30/2026
X	Omar Abdelaziz	6/30/2026		Darin Nutter	6/30/2028
X	Jason LeRoy	6/30/2026			

Quorum Established (7 present, 2 absent)

6. Approval of minutes from Indianapolis

Creamer

Chad Kirkwood motion for approval of Indianapolis meeting minutes and Andrew Hjortland second.
Motion Carrier carries, 6-0-1-2, Chair not voting

7. Agenda additions

All

No agenda addition

8. Membership/Roster

Creamer

a. Current Roster

Name	Role	Voting
Scott Creamer	Chair	Yes
Kevin McFadden	Vice Chair	Yes
Parveen Dhillon	Secretary	Yes
Chris Stone	Standards Chair	Yes
Haotian Liu	Handbook Chair	No
Davide Ziviani	Program Chair	No

Name	Role	Voting
Eric Berg	Research Chair	Yes
Darin Nutter	Webmaster	Yes
Omar Abdelaziz		Yes
Chad Kirkwood		Yes
Andrew Hjortland		Yes
Jason LeRoy		Yes

- Eric Berg (Lennox) wants to become a voting member again.
- Davide or Haotian (Purdue) wants to become a voting member.
- Kishan Padakannaya (JCI) wants to roll on as a voting member as Andrew rolls off.
- **Action Item:** Need to update roster by March 2nd 2025.

9. Chair's Report

Creamer

10. Subcommittee reports

a. Standards

Chris Stone

- Scott, update on ASHRAE standards 41 series, 37, and 16.
 - ASHRAE 37 was released recently. No meeting this time will possibly change to SSPC 37.
 - 41 series: 41.2, 41.3: Revision of the standard. 41.4 Can't publish until 2026.
 - 41.6: Published for public review draft
 - 41.7: Public review draft approved
 - SSPC 41.9: Voted to approve first public review draft
 - 41.10, 41.11, 41.13: Recently published, so dormant for now.
 - SSPC 16: Met on Monday morning. Will reaffirm before doing any work. Set to reaffirm in 2026. Will do some work but will not be able to include it in publication. Need research to perform lower-temperature heating test in calorimeter.
- ASHRAE 206: Are we cognizant of the standard?
 - **Action Item:** Scott will investigate this standard to revisit and come back to the committee on what's going on and follow up with Eric Berg and Chris Stone.

b. Programs

Davide Ziviani

- Seminar 45: Unitary Equipment Rating and Testing: Updates and Perspectives in Orlando (Track 2 HVAC&R Systems and Equipment)
- 7 tracks for ASHRAE Annual Conference 2025. Feb 26 is the deadline.
- Discussed some ideas on the programs for Phoenix and Vegas. Possibly presenting the research outcomes of TC8.11 in the programs.
- Davide will look into the programs related to TC research outcomes.
- **Motion:** Davide will look into the program for Phoenix; Davide first, Omar second; motion carries. 7-0-0-2

c. Handbook

Haotian Liu

- Haotian sent an email to the liaison to get access to the author portal. If it needs to get something done by the next meeting, Haotian will follow up as needed.

d. Research

Eric Berg

Current Research:

4 active projects; 2 final reports done (1721 and 1733); waiting for report to be published

RP 1785: Finishing the work and finalizing the report. Need to get NCE until March.

Chad makes a motion for NCE until March; Omar seconds. Motion carries 6-0-1-2.

RP 1824: Barometric pressure. Need to PMS meeting. Currently testing at MSU. Some delay due to a failed VFD. Testing first unit of 4. As they finish, they will be sent to ULL. Will request an NCE for 1 year.

Chad makes a motion for NCE for 1 year, Andrew seconds. Motion carries 6-0-1-2. Jon (PMS Chair) mentioned that they will do a meeting soon.

New Research:

Finishing RTAR on dynamic measurements; revise and send to RAC liaison before next meeting.

RTAR on the performance mapping approach is currently under development; we might need to divide the project into two different projects.

Defrost degradation mapping: testing at varied conditions; a lot of experimental work; then it can be modeled. Also measure the frost accumulation in experimental work. Frost density changes with cycles. Get enough incentive to improve building energy modeling. Mainly consider reverse cycle defrost.

Methodology for thermal energy storage integrated equipment; it could be of interest later.

e. Web site

Darin Nutter

Darin published the Chicago meeting; it's up to date.

11. Liaison reports (as they arrive)

Liaisons

a. MTG – Low GWP Refrigerants

Robert

Robert volunteered to be the liaison.

49 states allow ducting A2L systems, except Nevada. Working with Northern Nevada and Southern Nevada to make it applicable and working to update the code. Canada: 8 provinces allowing A2L either by code changes or adoption of the B52 standard. Nova Scotia is not sure how it's done to allow for A2L.

b. Refrigeration Technology

Hwang

Hwang retired from the committee, so we need a volunteer.

TPTPR conference in Maryland from June 15-18.

c. Very hot ambient and warm/very humid ambient efficiency STDs

Chao Ding

d. RAC

Carl Huber

e. TAC Section 8

Charlie Henck

f. TFBD

Chad Bowers

- Handbook Liaison: System and equipment handbook 2028; Haotian needs to follow back. Haotian promised to get back to her.

- Kashif, section head update:

TC Chair Breakfast Update: Discussion on how ASHRAE is integrating with international committees; there is a framework for that.

Discussion on how ASHRAE is integrating with developing nations; development affairs; subject matter expert who can contribute to these

Discussion on the balance of committee voting members.

12. Old Business

13. New Business

ASHRAE organizes a decarbonization conference in October; discussion on whether this TC will be interested in joining. The equipment side is not well represented so far.

Craig will be the liaison and provide information for the members.

<https://www.ashrae.org/conferences/topical-conferences/2025-ashrae-building-decarbonization-conference>

14. Adjourn

Meeting adjourned at 5:05 pm.

Research Subcommittee 2025/2/9:

1. **Wrap up the project by Christian RP1785; provided quick update on the challenges.**

RP1785: Refrigerant charge modeling

No cost extension – 30 days (Through March)

RP

RP 1824: Barometric pressure impact on unitary equipment testing

Need no cost extension - recommend a year

RP 1721:

Potential Research Topics:

1. **Co-sponsor one project on capillary pressure drop with TC8.8. Working on research work statement.**
2. **Co-sponsor: Heat loss on 4-way valve for cold climate heat pumps. RTAR submitted. Working on the research work statement.**
3. **Idea on effect of room stratification on the psychrometer testing. We might not need it as of now; might come back for now.**
4. **Budget on Dynamic Measurement RTAR. Guidelines on budget. Send it to Carl (liaison for RTAR) for review. Fill out cover sheet too. Follow up with Eric after the chair breakfast. March deadline.**
5. **Performance mapping RTAR: Need to divide the work to be in reasonable chunk.**
6. **Follow up with Bo Shen for defrost degradation mapping which is related to performance mapping.**
7. **Thermal energy storage method of test.**

Handbook:

Need access for the handbook portal to Haotian Liu. Copy the person, email on chair breakfast.

Chapter 1:

Programs:

1. Seminar 45 in Orlando (Chad Chair, 4 speakers; Tuesday 11:00 am)
2. Annual Meeting: 7 tracks; Phoenix deadline Feb 26th
 - a. Phoenix:
 - b. Vegas:

Standards:

ASHRAE 37 is published. Any update on ASHRAE 41 series and 16. Need to close ASHRAE 116. ASHRAE 206: Might be way out of date and might need some quite effort on revising it. Need to check.

ASHRAE 16 – Waiting on AHRI 310/340 to discuss.

Website:

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