

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

**2023 ASHRAE Summer Conference  
Hybrid**

**Main Meeting**

Monday, June 26 4:00 PM – 6:00 PM EST

☐ Tampa Marriott Waterside, Grand Salon D (2)

**Sub-Meeting**

Sunday, June 25 3:30 PM – 6:30 PM EST

☐ Tampa Marriott Waterside, Meeting Room 10 (3)

**1. Call to order**

**Worthington**

*Meeting called to order at 4:00pm.*

**2. 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.

**3. ASHRAE Code of Ethics Commitment**

**Worthington**

"In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests." See full ASHRAE Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

**4. Introductions**

**All**

a. Determination of a quorum

**McFadden**

*VOTING MEMBERS FOR THIS MEETING (Need 7 for a Quorum)*

X	Kasey Worthington	6/30/2024
X	Michael Creamer	6/30/2025
X	Eric Berg	6/30/2024
X	Omar Abdelaziz	6/30/2026
X	Davide Ziviani	6/30/2024
X	Craig Bradshaw	6/30/2024

X	Kirk Stifle	6/30/2023
X	Andrew Hjortland	6/30/2025
X	Kevin McFadden	6/30/2026
X	Jon Winkler	6/30/2024
X	Khaled Saleh	6/30/2025
X	Jason LeRoy	6/30/2026

*12 of 12 voting members attended – 9 in person, 3 online.*

**5. Agenda additions**

**All**

No additional agenda items were added.

**6. Chair's Report**

**Worthington**

a. Announcements and Highlights from TC Chairs Breakfast Meeting

*Chad Bowers will be liaison to the Decarbonization Task Force.*

*ASHRAE has a dedicated Government Affairs office. This office provides a biweekly letter.*

*TAC encouraged TCs to meet more than twice a year. TC 8.11 discussed this topic and intends to maintain the twice per year schedule.*

**7. Liaison reports (as they arrive)**

**Liaisons**

a. MTG – Low GWP Refrigerants

Siva G

b. Refrigeration Technology

Hwang

- c. Very hot ambient and warm/very humid ambient efficiency STDs Chao Ding  
*Chao Ding to circulate presentation.*
- d. RAC Seeton
- e. TAC Section 8 Mercer  
*No updates.*

## 8. Approval of minutes from Atlanta Winter Meeting Worthington

**Minutes approved 9 / 0 / 2 (Craig Bradshaw motion, Scott Creamer second)**

## 9. Membership/Roster McFadden

Name	Role	Voting
Kasey Worthington	Chair	Yes
Scott Creamer	Vice Chair	Yes
Kevin McFadden	Secretary	
Chris Stone	Standards Chair	
Chad Bowers	Handbook Chair	
Davide Ziviani	Program Chair	Yes
Eric Berg	Research Chair	Yes
Darin Nutter	Web-master	

Name	Role	Voting
Omar Abdelaziz		Yes
Craig Bradshaw		Yes
Kirk Stifle		Yes
Andrew Hjortland		Yes
Jon Winkler		Yes
Khaled Saleh		Yes
Jason LeRoy		Yes

- a. Kirk Stifle term is up in after this meeting as a voting member. Kirk will move to a corresponding member.
- b. *Chris Stone and Darin Nutter volunteered to be voting members of TC 8.11.*

## 10. Subcommittee reports

- a. Handbook Chad Bowers  
*Two chapters are due to publish in 2024: Unitary AC/HP and RAC/PTAC. TC already has several volunteers. Contact Chad Bowers if interested in assisting.*
- b. Programs Davide Ziviani
- i. *Applications are due on August 2, 2023*
  - ii. *Two program seminars were proposed:*
    1. *Known challenges to load-based testing*
      - *Speakers may be Christian Bach, Parveen Dhillon (or someone from Herrick), David Yuill.*
      - *Parveen to chair*
      - **Motion to approve (Craig Bradshaw motioned, Eric Berg seconded)**
      - **9 / 0 / 2 Motion Passed**
    2. *"Future Test Procedures for Unitary Equipment" (pending title) with three speakers*
      - *Someone from USE STC on AHRI 210/240 to cover CVP/M2 (Chad Kirkwood was mentioned); Someone from ULE (Dick Lord was mentioned); Kasey said he has someone.*
      - *Kasey to chair, Chad to speak*
      - **Motion to approve (Craig Bradshaw motioned, Eric Berg seconded)**

- **9 / 0 / 2 Motion Passed**

c. Standards

Chris Stone

- i. TC 8.11 to discuss and consider recommending that the Standards Committee form a separate Standing Standards Project Committee (SSPC) for SPC 15.2.
  1. TC 6.3, Residential and Light Commercial Forced Air Heating and Cooling Systems, have already made this recommendation to the Standards Committee
- ii. TC 8.11 to discuss and consider if they want to be a cognizant TC for this newly formed SSPC 15.2
  1. TC 6.3 is willing to be the cognizant or co-cognizant committee for this standard.
- iii. TC 8.11 Need to vote on Standard 137.
  1. Open for Revision or Reaffirmation  
*Committee supposedly voted to withdraw 137, need to confirm. No concerns were expressed in TC 8.11 with withdrawing 137.*
- iv. TC 8.11 to discuss what their involvement/participation/actions on Standard 206 and Standard 124 should be? What does the overlap of these two standards mean, and what does/doesn't it impact?

*Standard 206 needs to be reaffirmed. Could be opened for revision at any time, per Chris Stone.*

**Motion to reaffirm (Eric Berg motioned, Andrew Hjortland seconded)**

**9 / 0 / 2 Motion Passed**

*SPC 16 met today and is ongoing. DOE has an open TP NOPR on PTAC/HP. Will be short term revisions incorporating ASHRAE 37 updates. SPC 16 may pursue SSPC status.*

*SPC 37 will meet Wednesday. Out for public review. Closes July 3. No comments currently in the portal, but SSPC 37 has some comments to discuss already.*

*TC 8.11 is cognizant with Standard 15.2.*

*Rusty Tharp (chair of 15) spoke on 15.2 – it is currently out of balance. 4-5 manufacturers would need to be added to achieve balance (or several other interest categories would need to join.*

d. Research

Eric Berg

- i. TC 8.11 to consider Co-Sponsor with TC 8.4 on an RTAR for Anti-frosting surfaces/coatings for evaporators?
- ii. *RP 1721 Oil Return and Retention. Final report complete. PMS reviewing still. Will be circulated to voting members for letter ballot.*
- iii. *RP 1733 Develop Design Criteria for Psychrometric Samplers. Final report complete.*
- iv. *RP 1785 Refrigerant charge modeling. Needs a no-cost extension until Jan 2024.. Target finish date is late next year.*
  1. **Motion to extend through Feb 28, 2024 (Jason LeRoy motioned. Davide Ziviani seconded.)**
  2. **8 / 0 / 3 Motion Passed**

- v. *RP 1824 Barometric pressure effects. Waiting on response from Montana State University to resume testing. Will need to do a letter ballot for a no-cost extension.*
- vi. *Christian Bach is working on RTAR with TC 8.8 for low-GWP capillary tubes.*
- vii. *TC 8.4 is seeking co-sponsor for RTAR on anti-frosting surface coatings for evaporators.*
  - 1. *Craig Bradshaw made motion to co-sponsor. (Craig Bradshaw motioned, Scott Creamer seconded)*
  - 2. *Discussion: Kishan and Jun Li explained that the RTAR is to investigate existing potential coatings (not create a new one). Deliverable to ASHRAE would be ideal candidates for coating and impact on energy consumption. Omar proposed to split into two RTARs, with TC 8.11 unlikely to sponsor the first half. Kishan will discuss with TC 8.4 tomorrow.*
  - 3. *Craig rescinded his motion.*
- viii. *Bo Shen proposed an RTAR on heat loss from 4-way valves in cold-climate heat pump applications.*
- ix. *SPC 16 proposed an RTAR on cyclic degradation performance.*
- x. *SPC 16 also proposed an RTAR on dehumidification performance of make-up air PTACs. Khaled and Kevin McFadden to draft RTAR.*

e. Web site

Darin Nutter

#### **11. Old Business**

#### **12. New Business**

#### **13. Adjourn**

*Motion to adjourn (Jason LeRoy motioned, Omar Abdelaziz seconded)*

*Meeting adjourned at 5:18pm.*