



TC 8.10 - Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components Main Committee Meeting Minutes for ASHRAE Annual Conference Meeting 2022 In Person and Virtual

Date: Tuesday – February 1, 2022

Place: Caesar’s Palace – Genoa (P)
Virtual- Link TBD

Time: TC 8.10 Main Committee Meetings – 3:30 PM to 5:00 PM PDT

Note: TC 8.10 Sub-Committee Meetings – Tuesday, January 18, 2022 10:00 – 11:30 AM PDT

Items: Related to TC 8.10:

SPC 198 Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Moisture Removal Efficiency, **Sunday, January 30th 3:30 to 5:00 PM PDT Caesar’s Palace – Siena (P)**

Note: Within TC 8.10, we discuss research, handbook, and program activities during one combined subcommittee meeting. Voting members are strongly encouraged to attend the subcommittee meeting. Corresponding members and guests are welcome.

Scope of TC 8.10: is principally concerned with mechanical and solid/liquid desiccant dehumidification equipment and heat pipes and their design performance, applications engineering, related load calculations, commissioning, operation, and maintenance.

Call to order & Introductions: Chair, David Baird

1. Meeting called to order at 3:32 PM PST
2. Brief introductions

ASHRAE Code of Ethics, Chair, David Baird

“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”.

Determination of Quorum - Chair, David Baird

1. Majority of voting members must be present
 - a. 10 VM present
 - b. Quorum

Membership/Roster: Webmaster/Membership Subcommittee Chair, Gayle Davis

1. Leadership: 9 voting, 2 non-voting
 - a. 3 voting ends 6/30/22
 - 1) David, Ralph and Alois rolling off
 - 2) Craig, Tam, and Kevin to roll on.
 - 3) James Piscopo to roll on as Secretary.
2. 100 total members, 80 corresponding (10 provisional), Miscellaneous Others: 5



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- a. To become a provisional corresponding member - please sign-up online
- b. Chair has discretion to convert a provisional corresponding member to a corresponding member before 2 years

Request for Approval of Annual 2021 Minutes – Secretary, Kevin Muldoon

- 1. Modifications?

Request for Any Additions to Current Agenda

Section 8 Meeting Report - Chair, David Baird, Vice-Chair, Peter Luttk

- 1. Discussion of items from meeting to occur
- 2. When “Awards Nominations” are due
- 3. Deadlines for programs discussed and addressed in Programs report
- 4. TC opportunities for tracks

Liaison Reports:

Section Head	Kevin Mercer – Charlie Henck
TAC Chair	Dustin Meredith
Handbook	
Research	Christopher Seeton
Standard	Srinivas Katipamula
Staff	Steven Hammerling

As Liaisons might not be available at the beginning of the meeting, we will provide them the opportunity to address as they enter following the item on the agenda.

- 1. Section Head
 - a. FG workbooks available for use
 - b. Update roster online
 - c. Minutes due 60 days after meeting

Subcommittee Reports:

Programs – Program Sub-Committee Chair, Onieluan (Tam) Tamunobere

- 1. Summarize and update TC on seminar / program proposal for the Annual Vegas/Virtual meeting.
 - a. None planned for the virtual conference
- 2. Review proposals for future meetings
 - a. Toronto Annual meeting submissions opens 1/6/22 and due by 2/22/22
 - 1) Fundamentals and Applications
 - 2) HVAC&R Systems & Equipment



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- 3) Research Summit
- 4) Connected Buildings, Connected Communities
- 5) Cold Climate Building System Design, Operation and Resilience
- 6) IAQ, Energy Use, and Health of Sustainable Buildings
- 7) Professional Development and Education
- 8) Buildings in the Aftermath of COVID-19

Handbook - Handbook Sub-Committee Chair, Ralph Kittler

1. Handbook Chapters responsible for:
 - a. HVAC Systems & Equipment (2020):
 - 1) Desiccant Dehumidification and Pressure-Drying Equipment (Chapter 24)
 - 2) Mechanical Dehumidifiers and Related Equipment (Chapter 25)
 - a) Need to add something for CEA
 - 3) Dedicated Outdoor Air Systems (Chapter 51)
 - a) Plan to revise to align with update to DOAS Design guide
 - b. Fundamentals (2021):
 - 1) Sorbents and Desiccants (Chapter 32)
2. Design Guide responsible for:
 - a. Dedicated Outdoor Air Design Guide
 - 1) Team working on updating with goal of completing by end of 2021
 - 2) ASHRAE looking for support outside of North America for 2nd edition and/or support with eLearning course development
3. Ralph sent chapters to volunteers for review and comment.

Research - Research Sub-Committee Chair, Alois Malik

1. New Updated RTAR 1566 - "Equations to Estimate Evaporation Rates from Wetted Surfaces"
 - a. Work Statement 1566 has been conditionally accepted and RL approved for potential bid. Currently there are seventeen work statements that could be potentially bid this spring. RAC will review and prioritize work statements during the 2022 winter meeting. If 1566-TRP is selected to be released for bid this spring, the TC will be notified.
2. Co-sponsorship with TC 2.2 on Determination of Latent Loads for Crops
3. Test standards for liquid desiccants proposed at summer meeting
4. Benefits of pressurizing residential homes discussed at summer meeting
5. MOTION: Submit RTAR for Commercial Building Pressure Control
 - a. Moved: Jim Bogart, Second: Kevin Muldoon
 - b. VOTE: 10-0-0

Standards - Standards Sub-Committee Chair, Craig Burg

1. ASHRAE Standard 198-2013, Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Moisture Removal Efficiency
 - a. In the process of being revised



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2. ASHRAE Standard 174-2018, Method of Test for Rating Desiccant-Based Dehumidification Equipment
3. ASHRAE Standard 139-2019, Method of Testing for Rating Desiccant Dehumidifiers Utilizing Heat for the Regeneration Process
4. ASHRAE Standard 190-2020, Method of test for Rating Indoor Pool Dehumidifiers
5. AHRI performance standard for wrap-around heat pipes not completed at this time with no actions suggested.
6. MTG.CEA discussion regarding energy efficiency regulations and minimum levels.

TC Web Site – TC Webmaster, Gayle Davis

1. No update

Other Business

1. Basecamp management
2. TC 8.10 Goals and Objectives
3. Continue TC
 - a. Darrel moved, Alois second.
 - b. 10-0-0 PASSED

Motion to Adjourn – 5:08 PM PST