



TC 8.10 - Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components Committee Meeting Minutes for ASHRAE Summer Conference Meeting 2021 Virtual

Date: Tuesday – June 8, 2021

Place: Zoom: <https://ashrae-org.zoom.us/j/94501675044?pwd=Nk1TSUU4cmFaUE9GdWtKcC9xeU9EZz09>

Time: TC 8.10 Sub-Committee Meetings – Monday, June 7, 2021 2:15 – 4:15 PM EDT

Note: TC 8.10 Main Committee Meetings – Tuesday, June 8, 2021 1:00 PM to 3:00 PM EDT

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, ????

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 2:20 PM EDT
2. Brief introductions
 - a. Alkis Triantafyllopoulos, Andrew Lowenstein, Darrel Sandlin, David Baird, Kevin Muldoon, Peter Luttk, Eric Erdman, Gayle Davis, Jim Bogart, Kyle Bergeron, Onieluan (Tam) Tamunobere, Ralph Kittler, Scotty Hutto.

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. 6 VM present with 11 VM + 1 non-quorum

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

1. Leadership: 11 voting, 1 non-voting
 - a. 4 voting members end term 6/30/21
 - b. Darrell Sandlin expressed interest
 - c. Kevin Muldoon rolling off as VM but staying on as non-voting secretary
2. 91 total members, 74 corresponding (22 provisional), Miscellaneous Others: 5
 - a. To become a provisional corresponding member - please sign-up online



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- b. Chair has discretion to convert a provisional corresponding member to a corresponding member before 2 years

Liaisons

1. None

Subcommittee Reports:

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

1. Summarize and update TC on seminar / program proposal for the Summer Virtual meeting.
 - a. None planned for the virtual conference
2. Review proposals for future meetings
 - a. Las Vegas Winter meeting submissions opens 6/18
 - b. Mechanical vs. Desiccant vs. Heat pipe – the great debate

Handbook - Handbook Sub-Committee Chair, Ralph Kittler

1. Responsible for 3 chapters
 - a. HVAC Systems and Equipment
 - 1) Desiccant Dehum and pressure drying equipment (Ch. 24)
 - 2) Mech. Dehum and related equipment (Ch. 25)
 - a) Alkis T. to review and provide feedback to Ralph K.
 - 3) DOAS (Ch. 51)
 - a) Plan to review to align with update to DOAS design guide
 - b. Fundamentals (2021):
 - 1) Sorbents and Desiccants (Ch. 32)
2. DOAS Design Guide
 - a. Working to complete updates by end of 2021
3. Looking for international support for eLearning opportunities

Research - Research Sub-Committee Chair, Alois Malik

1. New Updated RTAR 1566 - "Equations to Estimate Evaporation Rates from Wetted Surfaces"
 - a. Per our research liaison the funding period or project movements did not change since the winter RAC meeting. Maybe the upcoming RAC meeting will shed some light on the issue.
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

Standards - Standards Sub-Committee Chair, Craig Burg

1. ASHRAE Standard 190-2013, Method of test for Rating Indoor Pool Dehumidifiers
2. ASHRAE Standard 198-2013, Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Moisture Removal Efficiency



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3. ASHRAE Standard 174-2018, Method of Test for Rating Desiccant-Based Dehumidification Equipment
4. AHRI performance standard for wrap-around heat pipes
5. Kevin M. to reach out to Craig B. for update at Main meeting.

TC Web Site – TC Webmaster, Gayle Davis

1. Updated on responsible chapters and TC 8.10/8.12 merger

Other Business

1. BaseCamp
2. Goals and Objectives

Motion to Adjourn

1. Gayle Davis, Darrell Sandlin