



**TC 8.10 - Mechanical and Desiccant Dehumidification  
Equipment, Heat Pipes and Components  
Sub-Committee Meeting Agenda for ASHRAE  
Annual Conference Meeting 2022  
Virtual**

**WELCOME!**

No need to say hello.  
We will begin at 3:00 pm EST

**HOUSEKEEPING**

**Audio**

- **PLEASE** mute yourself upon entry.
- Only Un-mute your line when you need to speak
- If you are joining via computer and phone line, ensure BOTH are muted

**Video**

- You are welcome and encouraged to share your webcam.
- To save internet bandwidth, keep your webcam off by default unless presenting.
- Be mindful that you are on display! Turn off your video when needed.

**Agenda**

- Facilitator this virtual meeting: TC 8.10 Chair, David Baird
- Draft Agenda was posted on TC 8.10 Website.
- Introduction
- Presentation
- Concluding Remarks



# **TC 8.10 - Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components Sub-Committee Meeting Agenda for ASHRAE Annual Conference Meeting 2022 Virtual**

**Date:** Tuesday – June 21, 2022

**Place:** Webex:

<https://ashrae.webex.com/ashrae/j.php?MTID=mc0edcc16e584c02985b6dd1d3aac440f>

Meeting number: 2330 370 6301

Password: TC8.10

**Time:** TC 8.10 Sub-Committee Meetings – Tuesday, June 21, 2022 3:00 – 5:00 PM EST

**Note:** TC 8.10 Main Committee Meetings – Tuesday, June 28, 2022 1:00 – 3:00 PM EST  
Sheraton, Davenport (4) and Virtual

**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, Monday, June 27<sup>th</sup> 2:30 to 4:30 PM EST Sheraton – Forest Hill (4) and Virtual

*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. 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 ( of 11 present)

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

1. Leadership: 11 voting (2 non-quorum)
  - a. 3 voting ends 6/30/22
2. 104 total members, 83 corresponding (14 provisional), Miscellaneous Others: 6
  - 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. xx

## **Subcommittee Reports:**

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

- 1. Summarize and update TC on seminar / program proposals
  - a. Proposal for Atlanta (Winter 2023) Seminar: “High Performing Heating, Ventilation and Air-Conditioning (HVAC) Systems and Equipment for Controlled Environmental Agriculture”
    - 1) Plants are not People – Introduction to Controlled Environmental Agriculture: Eric Sturm
    - 2) Pros and Cons of DX vs Chilled water System: Craig Burg
    - 3) Standalone Dehumidification Equipment in Controlled Environment Agriculture: Josh Spalding
    - 4) Latent Enhancement Devices for Energy Efficiency: Darrell Sandlin
- 2. Review proposals for future meetings
  - a. Atlanta (Winter 2023)
    - 1) Fundamentals and Applications
    - 2) HVAC&R Systems and Equipment
    - 3) Refrigerants and Refrigeration
    - 4) Grid Resilience and Thermal Storage
    - 5) Pathways to Zero Energy Emissions and Decarbonization
    - 6) Multifamily and Residential Buildings
    - 7) Operations and Maintenance
    - 8) Building Simulations and Virtual Design in Construction
    - 9) Mini Track – Innovative responses to supply chain challenges
  - b. Last program was Chicago 2020 for this committee

### **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)
    - 3) Dedicated Outdoor Air Systems (Chapter 51)
  - b. Fundamentals (2021):
    - 1) Sorbents and Desiccants (Chapter 32)
- 2. Design Guide responsible for:
  - a. Dedicated Outdoor Air Design Guide

### **Research - Research Sub-Committee Chair, Alois Malik**



## **TC 8.10 - Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components Sub-Committee Meeting Agenda for ASHRAE Annual Conference Meeting 2022 Virtual**

1. New Updated RTAR 1566 - "Equations to Estimate Evaporation Rates from Wetted Surfaces"
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. Impact of variable loads for full dehumidification equipment potential RTAR – Peter Luttkick & Craig Burg

### **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
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

### **TC Web Site – TC Webmaster, Gayle Davis**

1. Content is current

### **Other Business**

1. BaseCamp
2. Goals and Objectives

### **Motion to Adjourn**