

WEBINAR HPT ANNEX 51 - INSTRUCTIONS

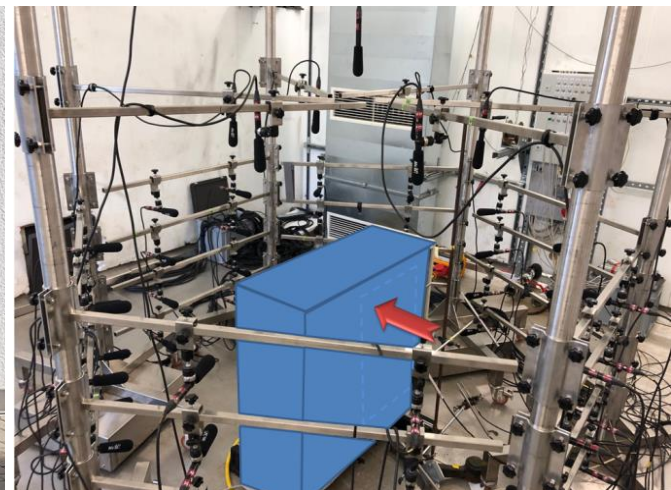
- The webinar will be recorded and posted on the HPT Annex 51 website, <https://heatpumpingtechnologies.org/annex51/>
- Please, mute your microphone and leave you camera off
- For technical support – contact Ulrica Örnemar (inviter to the meeting)
- If you have questions and comments during the introduction or during the presentations, please share them with all of us in the chat
 - Questions will be answered during the Panel Q&A session in the end of the meeting – the questions will be posed anonymously
 - Remaining questions will be answered in written by the presenters, distributed to you and posted on the HPT Annex 51 website along with the recording of the webinar
- Please, avoid to have a parallel discussion in the chat



Webinar Annex 51, 2020

Acoustic Signature of Heat Pumps

Monday, 30th of November, 14:00 – 15:30 CET





Welcome

Caroline Haglund Stignor (Heat Pump Centre)

Agenda

1. **Welcome (5') – Caroline Haglund Stignor (Heat Pump Centre)**
2. **Annex 51 Overview (5') – Christoph Reichl (AIT, Austria)**
3. **European Legislation and Standards (8') – Roberto Fumagalli (Polimi, Italy)**
4. **Noise and seasonal variations based on interlaboratory results (16') – Francois Bessac (CETIAT, France), Thomas Gindre (ISE, Germany)**
5. **Effect of different heat sinks and operation modes (8') - Kamal Arumugam (DTI, Denmark)**
6. **Transient noise of heat pumps (Thore Oltersdorf, ISE Germany) (8')**
7. **Heat pump installation and effects on surrounding environment (8') – Christoph Reichl (AIT, Austria)**
8. **Annoyance rating and psychoacoustical analysis of heat pump sound - Henrik Hellgren (RI.SE, Sweden) (8')**
9. **Panel Q&A of the presentations (20') - lead by Caroline Haglund Stignor (Heat Pump Centre)**



IEA TECHNOLOGY COLLABORATION PROGRAMME ON HEAT PUMPING TECHNOLOGIES (HPT TCP)

Research, Development, Demonstration and Promotion of Heat Pumping Technologies



The HPT TCP is part of a network of autonomous collaborative partnerships focused on a wide range of energy technologies known as Technology Collaboration Programmes or TCPs. The TCPs are organised under the auspices of the International Energy Agency (IEA), but the TCPs are functionally and legally autonomous. Views, findings and publications of the HPT TCP do not necessarily represent the views or policies of the IEA Secretariat or its individual member countries.

What is the HPT TCP?

- A Technology Collaboration Programme (TCP) within the IEA since 1978
- An international framework of cooperation and networking for different HPT actors
- A forum to exchange knowledge and experience
- A contributor to technology improvements by RDD&D projects
- 17 Member Countries

HEAT PUMPING TECHNOLOGIES

Includes:

- Heating and cooling
- Air conditioning
- Refrigeration

Covers applications in

- Residential and commercial buildings
- Industries
- Thermal grids in cities and communities
- Other applications

HPT Annexes = International Collaboration Projects

ANNEX

54

START DATE
17 January 2019
END DATE
31 December 2021

Heat pump systems with low GWP refrigerants

Heat pumps are at the heart of the solar-thermally assisted applications in domestic and commercial buildings. The main objective is to demonstrate the potential of advanced heat pump systems.

Read more

Visit Annex

ANNEX

53

START DATE
10 October 2018
END DATE
31 December 2021

Advanced Cooling/Refrigeration Technologies Development

Working populations and increasing emissions control and efficiency in the building sector are projected to make large research budgets available for rapid cooling, etc.

Read more

Visit Annex

ANNEX

51

START DATE
1 April 2017
END DATE
31 December 2020

Acoustic Signature of Heat Pumps

Reduction of acoustic emissions is important to further increase the acceptance of heat pumps as an air-to-water, water-to-air, air-to-air and brine-to-water ground source.

Read more

Visit Annex

ANNEX

50

START DATE
1 January 2017
END DATE
31 December 2020

Heat Pumps in Multi-Family Buildings for space heating and DHW

The overall aim of this Annex is to increase the use of heat pumps in multi-family buildings. The main objective is therefore to demonstrate possible energy savings and ...

Read more

Visit Annex



The Heat Pump Centre

Information dissemination and communication

- Publications (e.g. project reports)
- HPT Magazine and Newsletter(digital)
- Website
www.heatpumpingtechnologies.org
- Social media: LinkedIn and Twitter
@heatpumpingtech

Program Support

- Support to Executive Committee, National Teams and Project leaders (Operating Agents)
- Generation of new activities
- National Experts meetings
- Support to IEA publications
- Outreach activities



www.heatpumpingtechnologies.org





Annex 51 Overview

Christoph Reichl (AIT, Austria)



Panel Q&A of the presentations

lead by Caroline Haglund Stignor (Heat Pump Centre)