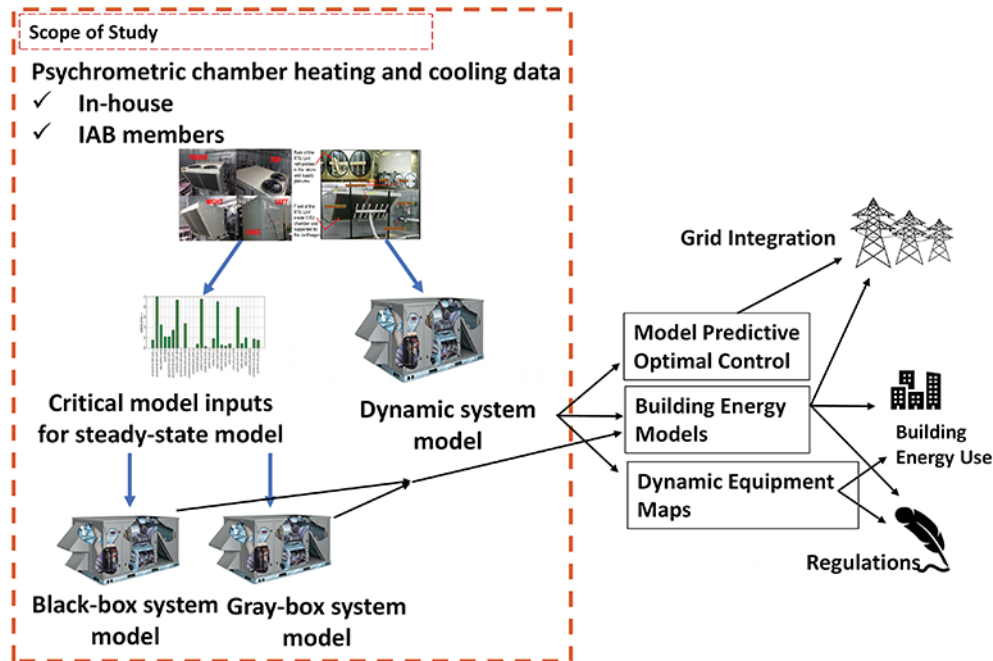

Development of Reduced-order System Models for Next Generation Comfort Cooling Equipment

Project Number AR-042



Goal

PROJECT TEAM:

Students: Shahzad Yousaf,
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Faculty: Craig R. Bradshaw,
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Omer San

This project aimed to develop reduced order models for variable speed unitary equipment to support development of equipment maps, building energy models, and model-predictive optimal control.

Outcomes/Deliverables

This project aimed to deliver:

1. Reduced-order black-box model
2. Reduced-order gray-box model
3. Equipment test data
4. High-fidelity dynamic equipment model.