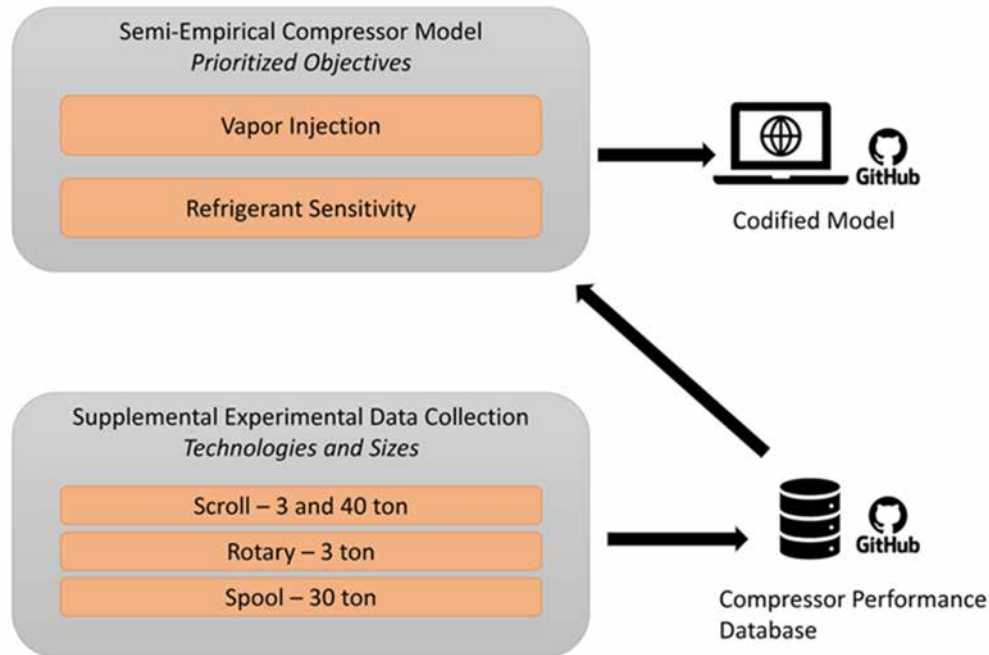# Development of a Vapor Injected and Refrigerant Flexible Semi-Empirical Compressor Model

Project Number 23-01-2

PROJECT TEAM:

Students: Amjid Khan
Faculty: Craig R. Bradshaw

Goal

This project aimed to develop a reduced order semi-empirical model for vapor injected compressor that has the potential to predict the performance against variation in refrigerant properties

Outcomes/Deliverables

This project aimed to deliver:

1. A refrigerant flexible vapor injected compressor model
2. Automation upgrade to compressor load stand
3. High-fidelity experimental data for various compressor technologies

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