

# *Hampden*<sup>®</sup>

**Partners with the Leading  
Air Conditioning Manufacturers in the world!**

## **H-VRST-1**

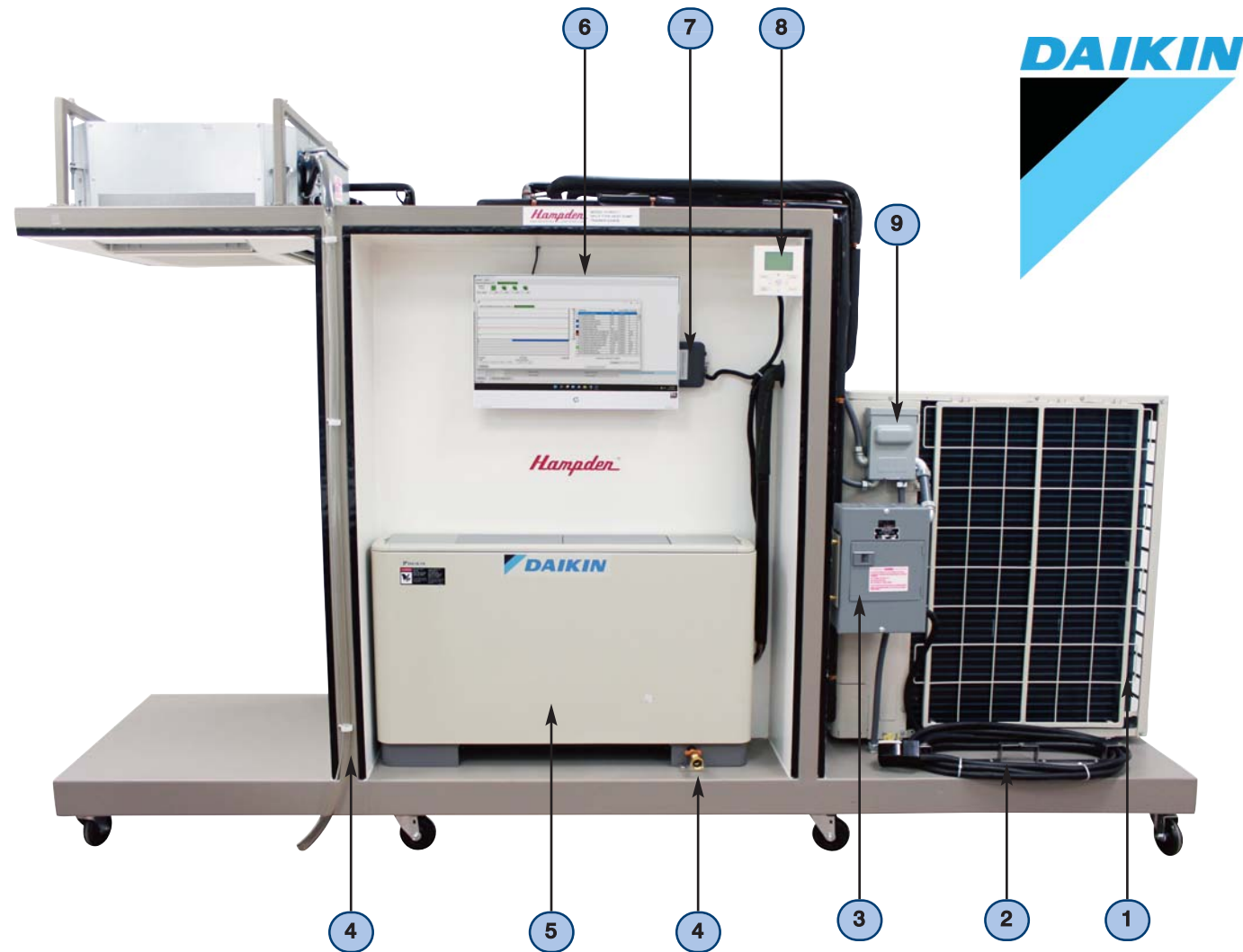
### **VARIABLE REFRIGERANT SYSTEM TRAINER**



*Hampden*<sup>®</sup>  
**ENGINEERING CORPORATION**



# H-VRST-1



Hampden Engineering Corporation introduces state of the art training in Variable Refrigerant HVAC systems. Based on the DAIKIN® VRV Series of “Variable Refrigerant Volume” Heat Pumps that combine VRV, VRT and VAV techniques to provide the most energy savings and comfort.

The Hampden H-VRST-1 Variable Refrigerant System Trainer combines a Daikin VRV heat pump with three indoor units (1 - ceiling mounted cassette, 1 - wall mounted unit and 1- floor standing unit.) each with its own digital controller. The system is built on a 10’L x 2.5’W x 7’H platform and includes all the components carefully arranged to provide maximum accessibility to the student. All equipment and hardware is of commercial quality and is typical of that encountered in the field by the service technician. A computer is built into the trainer and is loaded with Daikin’s Data Acquisition Software.

### Other Units Available

- H-VRST-2 Variable Refrigerant System Trainer (Mitsubishi)
- H-VRST-3 Variable Refrigerant System Trainer (Fujitsu)



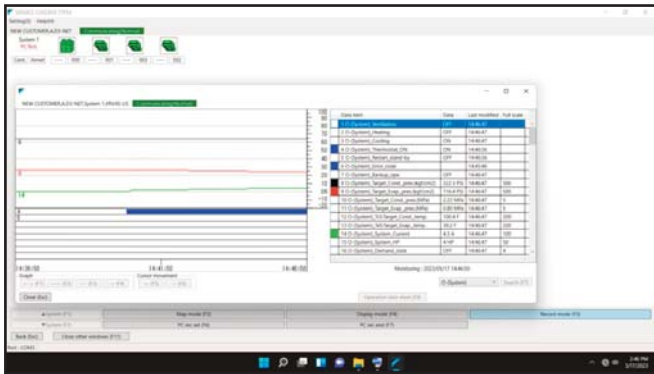
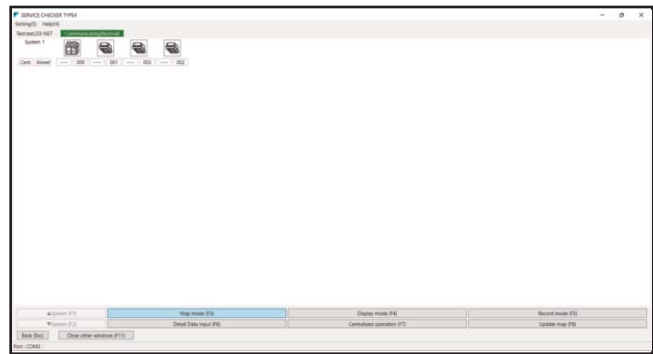
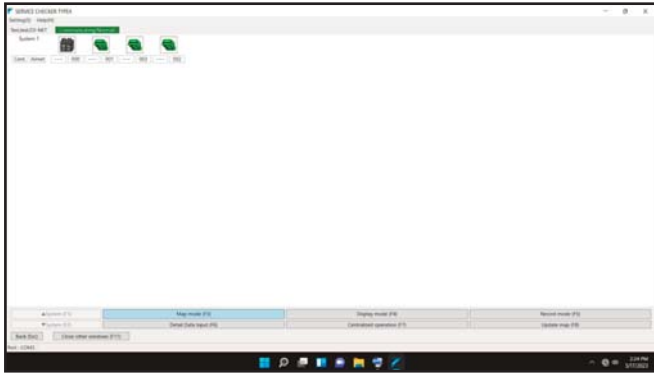
# H-VRST-1



- |                                    |                                       |
|------------------------------------|---------------------------------------|
| 1. Daikin RXTQ 3 Ton VRV Heat Pump | 8. Primary Thermostat                 |
| 2. Power Cord                      | 9. Disconnect Box                     |
| 3. Circuit Breaker Panel           | 10. Daikin FXAQ .5 Ton Wall Unit      |
| 4. Condensate Drain Lines          | 11. Secondary Thermostats             |
| 5. Daikin FXLQ .5 Ton Floor Unit   | 12. Clear Polycarbonate Viewing Panel |
| 6. Computer/Monitor                | 13. Daikin FXZQ 1 Ton Ceiling Unit    |
| 7. Daikin I/O Module               | 14. Castors (8)                       |

**Standard Products...Designed to Meet Your Growing Needs!**

# DAIKIN DATA ACQUISITION SOFTWARE



The proprietary **Daikin** software is used for monitoring or recording operational data, as well as most mechanical functions of the entire system. A built in computer system is connected directly to the outdoor condensing unit through a factory installed USB package.

The software allows the Instructor / Students in real time to observe and record up to 8 of the 106 available data points. Such as temperatures, pressures, compressor speed, as well as on / off binary function of different components. Once recorder this data can be exported to Excel for more in depth study.

The **H-VRST-1** allows students to experience the real world skills necessary when making a service call on a Variable Refrigerant Volume (VRV) System.



2018 National HVACR Educators and Trainers Conference



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