

FACILITY AND EQUIPMENT QUESTIONNAIRE

 Company (Participant) Name

 Test Facility Address

1. What is the operating range of the facility?

a. Minimum

- i. Room Dry Temperature _____ °F
- ii. Unit Cooler SST _____ °F
- iii. Capacity @ SST _____ kBtuh
- iv. Airflow _____ SCFM

b. Maximum

- i. Room Dry Temperature _____ °F
- ii. Unit Cooler SST _____ °F
- iii. Capacity @ SST _____ kBtuh
- iv. Airflow _____ SCFM

2. What is the size of the test chamber? _____ ft²

3. Does the test chamber have obstacles minimizing Unit Coolers size – as defined in Appendix C6 on AHRI Standard 420? _____

a. What is the largest face area Unit Cooler that can be installed? _____ ft²

b. What is the maximum airflow rate (CFM) based on the test chamber volume (ft³) that can be tested? _____ CFM

4. What types of instruments are used for measuring refrigerant temperatures?

a. RTD _____

b. Thermistor _____

c. Other _____

d. How often are these instruments calibrated?
Every _____ months

e. Is the primary standard traceable to NIST? _____

5. What types of instruments are used for measuring refrigerant flows?

a. Coriolis _____

b. Turbine _____

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- c. Ultrasonic _____
- d. Other _____
- e. How often are these instruments calibrated?
Every _____ months
- f. Is the primary standard traceable to NIST? _____

6. What types of instruments are used for measuring refrigerant pressure?

- a. Transducer _____
- b. Gauge _____
- c. Other _____
- d. How often are these instruments calibrated?
Every _____ months
- e. Is the primary standard traceable to NIST? _____

7. What types of instruments are used for measuring liquid pressure?

- a. Transducer _____
- b. Gauge _____
- c. Other _____
- d. How often are these instruments calibrated?
Every _____ months
- e. Is the primary standard traceable to NIST? _____

8. What types of instruments are used for measuring liquid temperatures?

- a. RTD _____
- b. Thermistor _____
- c. Other _____
- d. How often are these instruments calibrated?
Every _____ months
- e. Is the primary standard traceable to NIST? _____

9. What types of instruments are used for liquid flows?

- a. Coriolis _____
- b. Turbine _____
- c. Orifice _____
- d. Magnetic _____

- e. Venturi _____
- f. How often are these instruments calibrated?
Every _____ months
- g. Is the primary standard traceable to NIST? _____

10. How are the refrigerant properties required to calculate Unit Cooler capacity determined?

- a. Software _____
If so, what software package is utilized and what version?

- b. Reference Text _____
If so, what reference text is being utilized and what version?

11. What types of instruments are used for measuring motor power?

- a. Transducer _____
- b. KW Meter _____
- c. Other _____
- d. How often are these instruments calibrated?
Every _____ months
- e. Is the primary standard traceable to NIST? _____

12. Does the test chamber have means for adding moisture in the room for wet testing?

- a. How will moisture be supplied to the room?

- b. How will relative humidity be measured?

13. Does the refrigeration loop circulate oil? _____

- a. If yes, how will the refrigeration oil be removed?

- b. If yes, how will the oil concentration be measured?

14. How long does it take to install a unit for test (fully instrumented)?

- a. Direct Supervision Man-Hours _____ Persons _____ Hours

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15. How long does it take to conduct a rating test (start to finish, including calculations)?

	Persons	Hours
a. Direct Supervision Man-Hours	_____	_____

16. How many shifts per day will be employed for the AHRI witness test(s)?

17. Where are the temperature probes placed?

- a. Thermo Well _____
- b. Directly in the Stream _____
- c. Outside of Pipe _____
- d. Other _____

18. What provisions are made for the Independent Third-Party Laboratory's instrumentation?

- a. Refrigerant or Liquid Temperature
 - i. Thermowell _____
- b. Refrigerant or Liquid Pressure
 - i. Valved 1/4" NPT _____
 - ii. Off Common Tap _____
 - iii. Other _____
- c. Refrigerant or Liquid Flowmeter Installation
 - i. Flanged Spool Section _____
 - ii. Blank Pipe Section _____
 - iii. Side Stream Option _____
 - iv. Other _____

19. Explain the facility's data acquisition system

Submitted by: _____

Date: _____