AHRI CERTIFIED™ www.ahridirectory.org	**FORM WCCL-FA4** **WCCL CALIBRATION SUMMARY** **AHRI CERTIFICATION PROGRAM FOR WATER-COOLED WATER CHILLING AND HEAT PUMP WATER-HEATING (WCCL) PACKAGES**

The purpose of this Form is to provide sufficient information so that a determination can be made of the range over which the calibration process achieves the required accuracy for each of the Systems listed.

SYSTEM 1: LIQUID MASS FLOW RATE

1. Using the Table below, list all instruments and data acquisition devices in the System.

Instrument/Device	Description	Manufacturer's Stated Accuracy

- What is the intended range-of-use for the System? (Upper – Lower): _____ - _____
- Was the System calibrated as a whole, or were each of the instruments/devices calibrated individually? (Check)
  - Whole System _____ (if checked, complete the Whole System Calibration Points section, below)
  - Individual Components _____ (if checked, complete the Individual Components section, below)

2. **Whole System Calibration Points**: Attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard551/591 (SI) Calibration Worksheet (available online at www.ahrinet.org).
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____

3. **Individual Component Calibration Points**: For each Instrument/Device listed in the Table above, attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard551/591 (SI) Calibration Worksheet (available online at www.ahrinet.org).
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____
   - Describe the method of analysis used to make the determination of System accuracy:

     _____
     _____
     _____

SYSTEM 2: DIFFERENTIAL PRESSURE

1. Using the Table below, list all instruments and data acquisition devices in the System.

Instrument/Device	Description	Manufacturer's Stated Accuracy

- What is the intended range-of-use for the System? (Upper – Lower): _____ - _____
- Was the System calibrated as a whole, or were each of the instruments/devices calibrated individually? (Check)
    - Whole System _____ (if checked, complete the Whole System Calibration Points section, below)
    - Individual Components _____ (if checked, complete the Individual Components section, below)

2. **Whole System Calibration Points**: Attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
    - Does the System meet the required accuracy over the intended range-of-use? (Check)

      YES: ____ NO: _____

3. **Individual Component Calibration Points**: For each Instrument/Device listed in the Table above, attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
    - Does the System meet the required accuracy over the intended range-of-use? (Check)

      YES: ____ NO: _____
    - Describe the method of analysis used to make the determination of System accuracy:

      _____
      _____
      _____

SYSTEM 3: ELECTRICAL POWER

1. Using the Table below, list all instruments and data acquisition devices in the System.

Instrument/Device	Description	Manufacturer's Stated Accuracy

- What is the intended range- of-use for the System? (Upper – Lower): _____ - _____
- Was the System calibrated as a whole, or were each of the instruments/devices calibrated individually? (Check)
    - Whole System _____ (if checked, complete the Whole System Calibration Points section, below)
    - Individual Components _____ (if checked, complete the Individual Components section, below)

2. **Whole System Calibration Points**: Attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
    - Does the System meet the required accuracy over the intended range-of-use? (Check)

      YES: ____ NO: _____

3. **Individual Component Calibration Points**: For each Instrument/Device listed in the Table above, attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
    - Does the System meet the required accuracy over the intended range-of-use? (Check)

      YES: ____ NO: _____

    - Describe the method of analysis used to make the determination of System accuracy:

      _____
      _____
      _____

SYSTEM 4: LIQUID TEMPERATURE - ENTERING EVAPORATOR

1. Using the Table below, list all instruments and data acquisition devices in the System.

Instrument/Device	Description	Manufacturer's Stated Accuracy

- What is the intended range- of-use for the System? (Upper – Lower): _____ - _____
- Was the System calibrated as a whole, or were each of the instruments/devices calibrated individually? (Check)
    - Whole System _____ (if checked, complete the Whole System Calibration Points section, below)
    - Individual Components _____ (if checked, complete the Individual Components section, below)

2. **Whole System Calibration Points**: Attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
    - Does the System meet the required accuracy over the intended range-of-use? (Check)

      YES: ____ NO: _____

3. **Individual Component Calibration Points**: For each Instrument/Device listed in the Table above, attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
    - Does the System meet the required accuracy over the intended range-of-use? (Check)

      YES: ____ NO: _____
    - Describe the method of analysis used to make the determination of System accuracy:

      _____
      _____
      _____

SYSTEM 5: LIQUID TEMPERATURE - LEAVING EVAPORATOR

1. Using the Table below, list all instruments and data acquisition devices in the System.

Instrument/Device	Description	Manufacturer's Stated Accuracy

- What is the intended range- of-use for the System? (Upper – Lower): _____ - _____
- Was the System calibrated as a whole, or were each of the instruments/devices calibrated individually? (Check)
  - Whole System _____ (if checked, complete the Whole System Calibration Points section, below)
  - Individual Components _____ (if checked, complete the Individual Components section, below)

2. **Whole System Calibration Points**: Attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____

3. **Individual Component Calibration Points**: For each Instrument/Device listed in the Table above, attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____
   - Describe the method of analysis used to make the determination of System accuracy:

     _____
     _____
     _____

SYSTEM 6: LIQUID TEMPERATURE: ENTERING CONDENSER

1. Using the Table below, list all instruments and data acquisition devices in the System.

Instrument/Device	Description	Manufacturer's Stated Accuracy

- What is the intended range- of-use for the System? (Upper – Lower): _____ - _____
- Was the System calibrated as a whole, or were each of the instruments/devices calibrated individually? (Check)
  - Whole System _____ (if checked, complete the Whole System Calibration Points section, below)
  - Individual Components __ __ (if checked, complete the Individual Components section, below)

2. **Whole System Calibration Points**: Attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____

3. **Individual Component Calibration Points**: For each Instrument/Device listed in the Table above, attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____
   - Describe the method of analysis used to make the determination of System accuracy:

     _____
     _____
     _____

SYSTEM 7: LIQUID TEMPERATURE: LEAVING CONDENSER

1. Using the Table below, list all instruments and data acquisition devices in the System.

Instrument/Device	Description	Manufacturer's Stated Accuracy

- What is the intended range- of-use for the System? (Upper – Lower): _____ - _____
- Was the System calibrated as a whole, or were each of the instruments/devices calibrated individually? (Check)
  - Whole System _____ (if checked, complete the Whole System Calibration Points section, below)
  - Individual Components _____ (if checked, complete the Individual Components section, below)

2. **Whole System Calibration Points**: Attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____

3. **Individual Component Calibration Points**: For each Instrument/Device listed in the Table above, attach a completed AHRI Standard 550/590 (I-P) or AHRI Standard 551/591 (SI) Calibration Worksheet.
   - Does the System meet the required accuracy over the intended range-of-use? (Check)

     YES: ____ NO: _____
   - Describe the method of analysis used to make the determination of System accuracy:

     _____
     _____
     _____