REFRIGERATED WAREHOUSE EVAPORATOR & EVAPORATOR FAN MOTOR CONTROLS

CERTIFICATE OF ACCEPTANCE	NRCA-PRC-04-F
Refrigerated Warehouse Evaporator & Evaporator Fan Motor Controls Acceptance	(Page 1 of 2)

Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:

Note: This test required for all newly installed evaporators. Submit one Certificate of Acceptance for each evaporator that must demonstrate compliance.	Enforcement Agency Use: Checked by/Date

Intent:	*Verify that the evaporator fans are controlled to modulate their speed in response to space temperature. For control strategies that utilize relative humidity for control, the design engineer should be consulted for designing an appropriate test method.*

A. Construction Inspection

A. Installation. Verify the following:

- ☐ All refrigerated space temperature sensors used for control are verified to be mounted in a location away from direct evaporator discharge air draft.
- ☐ All fans motors are operational and rotating in the correct direction.
- ☐ Fan speed control is operational and connected to evaporator fan motors.
- ☐ All speed controls are in “auto” mode.

B. Field Calibration:

Sensors used for control must be calibrated to read accurate from the control system. Calibration values must be documented. Attached field calibration records to this form. The following sensors are used for air-cooled condenser control:

- Refrigerated space temperature sensors used for control

The calibrating instrument used to calibrate the sensors used for control must have the following accuracy:

- ☐ Temperature: ±0.7°F between -30°F and 200°F

Notes:

B. Functional Testing

	Results
Record the zone temperature setpoint:	°F
Step 1: Disable any conflicting controls (such as defrost override) if currently active. Measure current space temperature from the operators interface. Program this temperature as the test temperature setpoint into the control system for the functional test steps. Allow 5 minutes for system to normalize.	
Step 2: Lower the test temperature setpoint in 1 degree increments.	
a. Evaporator fan controls modulate to increase fan motor speed?	Y / N
b. Evaporator fan motor speed increases in response to controls?	Y / N
Step 3: Raise the test temperature setpoint in 1 degree increments until fans go to minimum speed.	
a. Evaporator fan controls modulate to decrease fan motor speed?	Y / N
b. Evaporator fan motor speed decreases in response to controls?	Y / N
c. Record the minimum fan motor control speed. Enter, with units, as rpm, Hertz, or percent of full speed.	
Step 4: Restore control system to original zone space setpoint and restore controls disabled in Step #1.	Y / N

C. Testing Results

	PASS	FAIL
Step 1: Evaporator fans increase speed when actual space temperature is higher than the test setpoint (plus any deadband).		
Step 2: Evaporator fans decrease speed when actual space temperature is lower than the space setpoint (plus any deadband).		

D. Evaluation

☐ PASS: All **Construction Inspection** responses are complete and all **Testing Results** responses are "Pass"

Notes:

CERTIFICATE OF ACCEPTANCE	NRCA-PRC-04-F
Refrigerated Warehouse Evaporator & Evaporator Fan Motor Controls Acceptance	(Page 2 of 2)

Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Acceptance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Documentation Author Company Name:	Date Signed:
Address:	CEA/HERS/ATT Certification Identification (If applicable):
City/State/Zip:	Phone:

FIELD TECHNICIAN'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Acceptance is true and correct.
2. I am the person who performed the acceptance verification reported on this Certificate of Acceptance (Field Technician).
3. The construction or installation identified on this Certificate of Acceptance complies with the applicable acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7.
4. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and signed by the responsible builder/installer and has been posted or made available with the building permit(s) issued for the building.

Field Technician Name:	Field Technician Signature:	
Field Technician Company Name:	Position with Company (Title):	
Address:	CEA/HERS/ATT Certification Identification (If applicable):	
City/State/Zip:	Phone:	Date Signed:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I am the Field Technician, or the Field Technician is acting on my behalf as my employee or my agent and I have reviewed the information provided on this Certificate of Acceptance.
2. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement (responsible acceptance person).
3. The information provided on this Certificate of Acceptance substantiates that the construction or installation identified on this Certificate of Acceptance complies with the acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7.
4. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and is posted or made available with the building permit(s) issued for the building.
5. I will ensure that a completed, signed copy of this Certificate of Acceptance shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Certificate of Acceptance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Acceptance Person Name:	Responsible Acceptance Person Signature:	
Responsible Acceptance Person Company Name:	Position with Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone:	Date Signed: