ENERGY STORAGE FOR A/C

Project Name and Address	Authority Having Jurisdiction
Name: Project Name	Enforcement Agency: Agency
Address: Project Address	Permit Number: Permit Number
City, Zip: City, Zip Code	Permit Acceptance Date: Date

Building: Enter Value	Floor: Enter Value	Room: Enter	Value	Control/tag: Value
Construction inspecDoes not comply	tion and functional testin	ng comply	Date Sub	mitted to AHJ: Date

This acceptance test applies to direct expansion (DX) systems with distributed energy storage (DES/DXAC). These acceptance requirements are in addition to those for other systems or equipment such as economizers or packaged equipment. This acceptance test was developed by AEC for Distributed Energy Storage for Direct-Expansion Air Conditioners, January 27, 2005, and is directly referenced by the 2025 Building Energy Efficiency Standards. Submit one Certificate of Acceptance for each system that must demonstrate compliance.

References: §120.5(a)13, §160.3(d)1M, and NA7.5.13.

Table A: Construction Inspection

Prior to functional testing, verify and document all of the following:

		Thomas	Code
Step	Entry	Item Check all of the following: designs, plans, schematics,	Reference
1.0	Pass Fail	and schedules as approved by the authority having jurisdiction.	N/A
2.0	No Entry	Prior to Performance Testing, verify and document the following:	NA7.5.13.1
2.1	☐ Pass ☐ Fail	The water tank is filled to the proper level.	NA7.5.13.1(a)
2.2	☐ Pass ☐ Fail	The water tank foundation structural strength is identified in the design, plans, schematics, or schedule and approved by the authority having jurisdiction.	NA7.5.13.1(b)
2.3	☐ Pass ☐ Fail	The water tank is insulated, and the top cover is in place.	NA7.5.13.1(c)
2.4	Pass Fail	The DES/DXAC is installed correctly (refrigerant piping, etc.).	NA7.5.13.1(d)
2.5	Pass Fail	Verify that the correct model number is installed and configured.	NA7.5.13.1(e)
3.0	Pass Fail	Verify that the proper time and date as specified by manufacturer's installation manual for approved installers has been set.	NA7.5.13.3
4.0	Pass Fail	Indicate that the Construction Inspection complies with ALL requirements.	N/A



Table B: Functional Testing

Step	Entry	Functional Test	Code Reference
1.0	No Entry	Simulate cooling load during daytime period (e.g. by setting time schedule to include actual time and placing thermostat cooling set-point below actual temperature). Verify and document the following:	NA7.5.13.2 Step 1
1.1	☐ Pass ☐ Fail	Supply fan operates continuously.	NA7.5.13.2 Step 1(a)
1.2	☐ Pass ☐ Fail ☐ N/A	The DES/DXAC runs to meet the cooling demand (in ice melt mode).	NA7.5.13.2 Step 1(b)
1.3	Pass Fail	The DES/DXAC has no ice and there is a call for cooling while the DES/DXAC runs in direct cooling mode.	NA7.5.13.2 Step 1(c)
2.0	No Entry	Simulate no cooling load during daytime condition. Verify and document the following:	NA7.5.13.2 Step 2
2.1	☐ Pass ☐ Fail	Supply fan operates as specified by the facility thermostat or control system.	NA7.5.13.2 Step 2(d)
2.2	☐ Pass ☐ Fail	The DES/DXAC and the condensing unit do not run.	NA7.5.13.2 Step 2(e)
3.0	☐ Pass ☐ Fail	Simulate no cooling load during morning shoulder time period. Verify and document that the DES/DXAC is idle.	NA7.5.13.2 Step 3(f)
4.0	Pass Fail	Simulate a cooling load during morning shoulder time period. Verify and document that the DES/DXAC runs in direct cooling mode.	NA7.5.13.2 Step 4(g)
5.0	No Entry	Return the system to normal operations.	N/A
6.0	☐ Pass ☐ Fail	Indicate that the Functional Test complies with ALL requirements.	N/A
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Declaration Statement	Signatory
Document Author	Name
I assert this Certificate of Acceptance documentation is accurate and complete.	Company Name Author Signature Date Signed
Acceptance Test Technician	
I certify the following under penalty of perjury, under the laws of the State of California:	Name
The information provided on this Certificate of Acceptance is true and correct. I am the person who	Company Name
performed the acceptance verification reported on this Certificate of Acceptance (Field Technician). The	ATT No.: ATT Cert. No.
construction or installation identified on this Certificate of Acceptance complies with the applicable	Title
acceptance requirements indicated in the plans and specifications approved by the enforcement agency	Phone
and conforms to the applicable acceptance requirements and procedures specified in Reference	Signature
Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or	Date Signed
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.	
Responsible Person	
I assert the following under penalty of perjury, under the laws of the State of California:	
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. 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	Name
scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement.	Company Name
The information provided on this Certificate of Acceptance substantiates that the construction or	Lic. No.: License No.
installation identified on this Certificate of Acceptance complies with the acceptance requirements	Title
indicated in the plans and specifications approved by the enforcement agency and conforms to the	Phone
applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I	Signature
have confirmed that the Certificate(s) of Installation for the construction or installation identified on this	Date Signed
Certificate of Acceptance has been completed and is posted or made available with the building permit(s)]
issued for the building. I understand 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 shall be made	
available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill	
this requirement. 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. I will take the	
necessary steps to fulfill this requirement.	