

CERTIFICATE OF COMPLIANCE		NRCC-PRC-05-E
Commercial Refrigeration		(Page 1 of 5)
Project Name:	Date Prepared:	

A. GENERAL INFORMATION			
Building Area:	Retail Food Store Conditioned Area $\geq 8,000 \text{ ft}^2$ Retail Food Store Conditioned Area $< 8,000 \text{ ft}^2$		
<i>(Note: If the Retail Food Store Conditioned Area is $< 8,000 \text{ ft}^2$ then the Retail Food Store need not comply)</i>			
Phase of Construction:	New Construction	Addition	Alteration

B. MANDATORY REQUIREMENTS								
Are new condensers replacing existing condensers when:								
The attached compressor system total heat of rejection does not increase?					Yes	No		
Less than 25% of the attached compressors and the attached refrigerated display cases are new?					Yes	No		
<i>If Yes to both questions for all systems, the condenser(s) need not comply (exception §120.6(b)). Continue to page 3 or 4.</i>								
CONDENSER MANDATORY MEASURE	T-24 Sections	Indicate page reference for information on the plans or specification, or list information below						
Condenser ID or Tag (e.g. Cond-1)								
Continuously variable speed fans? Fan speed controlled in unison for all fans serving a common condenser high side?	§120.6(b)1A							
Saturated condensing temperature setpoint reset based on ambient dry bulb temperature for air-cooled condensers and ambient wet bulb temperature for evaporative condensers?	§120.6(b)1B,C							
Specify the minimum saturated condensing temperature setpoint. Complies if the minimum saturated condensing temperature setpoint $\leq 70^\circ\text{F}$.	§120.6(b)1D							
Minimum allowed condenser efficiency. Reference Table 120.6-C.	§120.6(b)1E							
Installed condenser specific efficiency from Section C.								
Is the installed condenser efficiency \geq the minimum allowed condenser efficiency?								
Exception 1 to §120.6(b)1E. Condenser with total heat rejection capacity of $< 150,000 \text{ Btuh}$ at the specific efficiency conditions.								
Exception 2 to §120.6(b)1E. Condenser operating in Climate Zone 1.								
Exception 3 to §120.6(b)1E. Existing condenser reused for an addition or alteration.								
Air-cooled Condenser Installed? If Yes then Fill Out Next 3 Rows	§120.6(b)1F							
Fin density (fins per inch). Complies if fin density ≤ 10 .								
Exception 1 to §120.6(b)1F. Condenser is a micro-channel condenser.								
Exception 2 to §120.6(b)1F. Existing condenser is being reused.								
Existing compressor system reused? If Yes, the compressor system need not comply. Yes No								
<i>If Yes, the condensers need not comply (exception §120.6(b)). Continue to page 4 or 4</i>								

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COMPRESSOR SYSTEM MANDATORY MEASURES	T-24 Sections	Indicate page reference for information on the plans or specification, or list information below				
Compressor System / Suction Group ID or Tag (e.g. Rack A)						
Saturated suction temperature setpoint reset based on the temperature requirements of the attached refrigeration display cases or walk-ins?	§120.6(b)2A					
Exception 1 to §120.6(b)2A. Single compressor system with no variable capacity capability.						
Exception 2 to §120.6(b)2A. Suction group with design saturated suction temperature (SST) ≥ 30°F.						
Exception 2 to §120.6(b)2A. Suction group comprises of the high stage of a two-stage or a cascade system.						
Exception 2 to §120.6(b)2A. Suction group serves the secondary cooling fluid (e.g. glycol) chiller.						
Design Saturated Suction Temperature (SST) ≤ -10°F and Suction Group Design Cooling Capacity Greater than 100,000 Btu/hr? If Yes then Fill Out the Next 3 Rows	§120.6(b)2B					
Subcooled liquid temperature at the exit of the subcooler. Complies if the temperature is ≤ 50°F.						
Specify the saturated suction temperature (SST) of the suction group doing the subcooling. Complies if SST ≥ 18°F.						
Exception 1 to §120.6(b)2B. Suction group is the low temperature suction group of a cascade system.						

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REFRIGERATED DISPLAY CASES MANDATORY MEASURES	<i>T-24 Sections</i>	<i>Indicate page reference for information on the plans or specification, or list information below</i>		
Refrigerated Display Cases				
Lights in the refrigerated display cases and lights installed on walk-in glass doors automatically turned off during non-business hours, or reduced by 50% of lighting power within 30 minutes after the nearby area is vacated?	§120.6(b)3	Yes	No	
Exception 1 to §120.6(b)3. Retail Food Store is open for business for 140 hours or more per week.				
HEAT RECOVERY MANDATORY MEASURES	<i>T-24 Sections</i>	<i>Indicate page reference for information on the plans or specification, or list information below</i>		
Heat Recovery System ID or Tag (e.g. HR-1)				
Heat recovery of at least 25% of the sum of the total heat rejection of the refrigeration systems with > 150,000 Btuh individual total heat rejection at design conditions?	§120.6(b)4A			
Identify the page in plans showing the heat recovery calculations or attach the calculations to this form.				
Exception 1 to §120.6(b)4A. Retail Food Store located in Climate Zone 15.				
Exception 2 to §120.6(b)4A. Reused refrigeration and HVAC systems for an addition or alteration.				
Identify the page number in plans showing the charge increase calculations or attach the calculations to this compliance document.	§120.6(b)4B			
01 Specify the increase in refrigerant charge associated with heat recovery equipment and piping in lbs				
02 Specify the total amount of heat recovery heating capacity in MBH [MBH = 1,000 Btuh]				
03 B01/B02. Complies if B03 < 0.35 lbs/MBH.				

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C. Fan-Powered Condenser Specific Efficiency Worksheet

EVAPORATIVE CONDENSER											
Tag/ID	Fans				Pumps				Condenser		
	01	02	03	04	05	06	07	08	09	10	11
	Motor Power (HP)	Motor Efficiency	Motor Input Power (kW) 0.746 * C01 / C02	Total Fan Power (kW)	Motor Power (HP)	Motor Efficiency	Motor Input Power (kW) 0.746 * C05 / C06	Total Pump Power (kW)	Capacity (MBH)	Total Input Power (kW) C04 + C08	Specific Efficiency (Btuh/Watt) C09 / C10
	Fan 1 ___ Fan 2 ___ Fan 3 ___	Fan 1 ___ Fan 2 ___ Fan 3 ___	Fan 1 ___ Fan 2 ___ Fan 3 ___		Pump 1 ___ Pump 2 ___	Pump 1 ___ Pump 2 ___	Pump 1 ___ Pump 2 ___				
	Fan 1 ___ Fan 2 ___ Fan 3 ___	Fan 1 ___ Fan 2 ___ Fan 3 ___	Fan 1 ___ Fan 2 ___ Fan 3 ___		Pump 1 ___ Pump 2 ___	Pump 1 ___ Pump 2 ___	Pump 1 ___ Pump 2 ___				

AIR-COOLED CONDENSER						
Tag/ID	Fans				Condenser	
	01	02	03	04	05	06
	Number of Fans	Motor Power (HP)	Motor Efficiency	Total Input Power (Watts) 0.746 * C01 * C02 / C03	Capacity (Btuh)	Specific Efficiency (Btuh/Watt) C05 / C04

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

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

RESPONSIBLE PERSON'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 Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company :	Date Signed:
Address:	License:
City/State/Zip:	Phone: