



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 $< 8,000 \text{ ft}^2$

(Note: If the Retail Food Store Conditioned Area is $< 8,000 \text{ ft}^2$ then the Retail Food Store need not comply)

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

If Yes to both questions for all systems, the condenser(s) need not comply (exception §120.6(b)). Continue to page 3 or 4.

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 worksheet CR-2C							
Is the installed condenser efficiency \geq the minimum allowed condenser efficiency?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exception 1 to §120.6(b)1E. Condenser with total heat rejection capacity of $< 150,000 \text{ Btuh}$ at the specific efficiency conditions.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exception 2 to §120.6(b)1E. Condenser operating in Climate Zone 1.		<input type="checkbox"/>					
Exception 3 to §120.6(b)1E. Existing condenser reused for an addition or alteration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exception 2 to §120.6(b)1F. Existing condenser is being reused.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Existing compressor system reused? If Yes, the compressor system need not comply. Yes No
If Yes to both questions for all systems, the condensers need not comply (exception §120.6(b)). Continue to page 4 or 4.

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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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exception 1 to §120.6(b)2A. Single compressor system with no variable capacity capability.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exception 2 to §120.6(b)2A. Suction group with design saturated suction temperature (SST) ≥ 30°F.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exception 2 to §120.6(b)2A. Suction group comprises of the high stage of a two-stage or a cascade system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exception 2 to §120.6(b)2A. Suction group serves the secondary cooling fluid (e.g. glycol) chiller.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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REFRIGERATED DISPLAY CASES MANDATORY MEASURES	T-24 Sections	<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 <input type="checkbox"/>	No <input type="checkbox"/>	
Exception 1 to §120.6(b)3. Retail Food Store is open for business for 140 hours or more per week.		<input type="checkbox"/>		
HEAT RECOVERY MANDATORY MEASURES	T-24 Sections	<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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.		<input type="checkbox"/>		
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 from.	§120.6(b)4B			
A Specify the increase in refrigerant charge associated with heat recovery equipment and piping in lbs				
B Specify the total amount of heat recovery heating capacity in MBH [MBH = 1,000 Btuh]				
C A / B. Complies if C < 0.35 lbs/MBH.				

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C. Fan-Powered Condenser Specific Efficiency Worksheet

EVAPORATIVE CONDENSER

Tag/ID	Fans				Pumps				Condenser		
	A	B	C	D	E	F	G	H	I	J	K
	Motor Power (HP) ¹	Motor Efficiency	Motor Input Power (kW) 0.746 * A / B	Total Fan Power (kW)	Motor Power (HP)	Motor Efficiency	Motor Input Power (kW) 0.746 * E / F	Total Pump Power (kW)	Capacity (MBH) ²	Total Input Power (kW) D + H	Specific Efficiency (Btuh/Watt) I / J
	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 ___				

1. Enter the nominal HP for each fan motor. If the manufacturer specifies the input power in kW, then skip to column C and enter it there.
 Enter the rated capacity of the condenser at 100°F saturated condensing temperature and 70°F ambient wetbulb temperature.

AIR-COOLED CONDENSER

Tag/ID	Fans				Condenser	
	A	B	C	D	E	F
	Number of Fans	Motor Power (HP) ¹	Motor Efficiency	Total Input Power (Watts) 746 * A * B / C	Capacity (Btuh) ²	Specific Efficiency (Btuh/Watt) E / D

1. Enter the nominal HP for each fan motor. If the manufacturer specifies the input power in kW, then skip to column D and enter it there.
 2. Enter the rated capacity of the condenser at 105°F saturated condensing temperature and 95°F ambient drybulb temperature (10°F temperature difference).

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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:	
<ol style="list-style-type: none"> 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: