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IECC CHAPTER 5

To be inserted between pages 34 & 35.

Comm 63.0503 Building mechanical systems. (3) HVAC EQUIPMENT PERFORMANCE. Substitute the following wording for the requirements in IECC tables 503.2.3(1) and 503.2.3(2):

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TABLE 503.2.3(1)

**UNITARY AIR CONDITIONERS AND CONDENSING UNITS,
ELECTRICALLY OPERATED, MINIMUM EFFICIENCY REQUIREMENTS**

EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION	MINIMUM EFFICIENCY ^b	TEST PROCEDURE ^a
Air Conditioners, Air Cooled	< 65,000 Btu/h ^d	Split system	13.0 SEER	ARI 210/240
		Single package	13.0 SEER	
	≥ 65,000 Btu/h and < 135,000 Btu/h	Split system and single package	10.3 EER ^c (before Jan 1, 2010) 11.2 EER ^c (as of Jan 1, 2010)	ARI 340/360
	≥ 135,000 Btu/h and < 240,000 Btu/h	Split system and single package	9.7 EER ^c (before Jan 1, 2010) 11.0 EER ^c (as of Jan 1, 2010)	
	≥ 240,000 Btu/h and < 760,000 Btu/h	Split system and single package	9.5 EER ^c 9.7 IPLV ^c (before Jan 1, 2010) 10.0 EER ^c 9.7 IPLV ^c (as of Jan 1, 2010)	
≥ 760,000 Btu/h	Split system and single package	9.2 EER ^c 9.4 IPLV ^c (before Jan 1, 2010) 9.7 EER ^c 9.4 IPLV ^c (as of Jan 1, 2010)		
Through-the-Wall, Air Cooled	< 30,000 Btu/h ^d	Split System	10.9 SEER (before Jan 23, 2010) 12.0 SEER ^c (as of Jan 23, 2010)	ARI 210/240
		Single Package	10.6 SEER ^c (before Jan 23, 2010) 12.0 SEER ^c (as of Jan 23, 2010)	
Air conditioners, Water and evaporatively cooled	< 65,000 Btu/h	Split system and single package	12.1 EER	ARI 210/240
	≥ 65,000 Btu/h and < 135,000 Btu/h	Split system and single package	11.5 EER ^c	
	≥ 135,000 Btu/h and < 240,000 Btu/h	Split system and single package	11.0 EER ^c	ARI 340/360
	≥ 240,000 Btu/h	Split system and single package	11.0 EER ^c 10.3 IPLV ^c	

For SI: 1 British thermal unit per hour = 0.2931 W.

- Chapter 6 contains a complete specification of the referenced test procedure, including the referenced year version of the test procedure.
- IPLVs are only applicable to equipment with capacity modulation.
- Deduct 0.2 from the required EERs and IPLVs for units with a heating section other than electric resistance heat.
- Single-phase air-cooled air conditioners < 65,000 Btu/h are regulated by the National Appliance Energy Conservation Act of 1987 (NAECA), SEER values are those set by NAECA.

**TABLE 503.2.3(2)
UNITARY AND APPLIED HEAT PUMPS, ELECTRICALLY
OPERATED, MINIMUM EFFICIENCY REQUIREMENTS**

EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION	MINIMUM EFFICIENCY ^b	TEST PROCEDURE ^a
Air cooled (Cooling mode)	< 65,000 Btu/h ^d	Split system	13.0 SEER	ARI 210/240
		Single package	13.0 SEER	
	≥ 65,000 Btu/h and < 135,000 Btu/h	Split system and single package	10.1 EER ^c (before Jan 1, 2010) 11.0 EER ^c (as of Jan 1, 2010)	ARI 340/360
	≥ 135,000 Btu/h and < 240,000 Btu/h	Split system and single package	9.3 EER ^c (before Jan 1, 2010) 10.6 EER ^c (as of Jan 1, 2010)	
	≥ 240,000 Btu/h	Split system and single package	9.0 EER ^c 9.2 IPLV ^c (before Jan 1, 2010) 9.5 EER ^c 9.2 IPLV ^c (as of Jan 1, 2010)	
Through-the-Wall, (Air Cooled, Cooling Mode)	< 30,000 Btu/h ^d	Split System	10.9 SEER (before Jan 23, 2010) 12.0 SEER ^c (as of Jan 23, 2010)	ARI 210/240
		Single Package	10.6 SEER ^c (before Jan 23, 2010) 12.0 SEER ^c (as of Jan 23, 2010)	
Water source (Cooling mode)	< 17,000 Btu/h	86°F entering water	11.2 EER	ARI/ASHRAE-13256-1
	< 17,000 Btu/h and < 135,000 Btu/h	86°F entering water	12.0 EER	ARI/ASHRAE-13256-1
Groundwater source (Cooling mode)	< 135,000 Btu/h	59°F entering water	16.2 EER	ARI/ASHRAE-13256-1
Ground source (Cooling mode)	< 135,000 Btu/h	77°F entering water	13.4 EER	ARI/ASHRAE-13256-1
Air cooled (Heating mode)	< 65,000 Btu/h ^d (Cooling capacity)	Split system	7.7 HSPF	ARI 210/240
		Single Package	7.7 HSPF	
	≥ 65,000 Btu/h and < 135,000 Btu/h (Cooling capacity)	47°F db/43°F wb outdoor air	3.2 COP (before Jan 1, 2010) 3.3 COP (as of Jan 1, 2010)	ARI 340/360
≥ 135,000 Btu/h (Cooling capacity)	47°F db/43°F wb outdoor air	3.1 COP (before Jan 1, 2010) 3.2 COP (as of Jan 1, 2010)		

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TABLE 503.2.3(2)
(continued)

Through-the-Wall, (Air Cooled, Heating Mode)	< 30,000 Btu/h ^d	Split System	7.1 HSPE (before Jan 23, 2010) 7.4 HSPE (as of Jan 23, 2010)	ARI 210/240
		Single Package	7.0 HSPE (before Jan 23, 2010) 7.4 HSPE (as of Jan 23, 2010)	
Water source (Heating mode)	< 135,000 Btu/h (Cooling capacity)	68°F entering water	4.2 COP	ARI/ASHRAE-13256-1
Groundwater source (Heating mode)	< 135,000 Btu/h (Cooling capacity)	50°F entering water	3.6 COP	ARI/ASHRAE-13256-1
Ground Source (Heating mode)	< 135,000 Btu/h (Cooling capacity)	32°F entering water	3.1 COP	ARI/ASHRAE-13256-1

For SI: °C = [(°F) – 32] / 1.8, 1 British thermal unit per hour = 0.2931 W.

Db = dry-bulb temperature, °F; wb = wet-bulb temperature, °F

- a. Chapter 6 contains a complete specification of the referenced test procedure, including the referenced year version of the test procedure.
- b. IPLVs and Part load rating conditions are only applicable to equipment with capacity modulation.
- c. Deduct 0.2 from the required EERs and IPLVs for units with a heating section other than electric resistance heat.
- d. Single-phase air-cooled heat pumps < 65,000 Btu/h are regulated by the National Appliance energy Conservation Act of 1987 (NAECA), SEER and HSPF values are those set by NAECA.

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Comm 63.0503 Building mechanical systems. (4) TEMPERATURE CONTROLS.
Substitute the following wording for the requirements in IECC sections 503.2.4 and 503.2.4.1: Each heating and cooling system shall have at least one temperature control device that complies with IECC sections 503.2.4.1.1, 503.2.4.2 and 503.2.4.3.