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## ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.02)

For National Version 1.2:

For Equipment Types not listed here, minimum efficiencies shall be based on ~~54~~50% improvement over those listed in ASHRAE 90.1-2019. Use the ~~efficiency~~ values for "after 1/1/2023" where listed.

Equipment Type	CZ 1-4b <sup>10</sup>	CZ 4c5-8 <sup>10</sup>
Room AC (window, through-wall)	ENERGY STAR certified	
Air conditioners, air cooled (Split system & single package)		
Air conditioners, air cooled (<65 kBtu/h)	See Reference Design	
Air conditioners, air cooled (≥65 and <135 kBtu/h)	CZ 1-4: 15.7 IEER	CZ 5-8: 14.6 IEER
Air conditioners, air cooled (≥135 and <240 kBtu/h)	CZ 1-4: 15.1 IEER	CZ 5-8: 14.0 IEER
Air conditioners, air cooled (≥240 and < 760 kBtu/h)	CZ 1-4: 14.1 IEER	CZ 5-8: 13.0 IEER
Electric resistance space heating	<ul style="list-style-type: none"> <li>Not permitted in any dwelling unit using the Prescriptive Path</li> <li>Electric resistance heating specified in common spaces has a total heating capacity ≤ 12 kBtu/h (3.5 kW) per enclosed space and has automatic thermostatic controls</li> </ul>	
Warm-Air Furnace (<225 kBtu/h, common spaces)	See Reference Design	CZ 5-8 90% AFUE
Warm-Air Furnace (≥225 kBtu/h, common spaces)	80% Et	81% Et
Warm-Air Furnace (dwelling units)	See Reference Design	
Packaged Terminal Air Conditioner (PTAC), w/gas-fired heat (dwelling units)	80% Et in CZ 1-4;	82% Et in CZ 5-8, AND 0.25 cfm50/ft2 avg per unit
PTAC (dwelling units)	12.5 EER	11.9 EER
PTAC (common spaces)	<7 kBtu/h: 12.5 EER	<7 kBtu/h: 11.9 EER
	≥7 and ≤15 kBtu/h: 14.7 - (0.320 X Cap/1000) EER	≥7 and ≤15 kBtu/h: 14.0 - (0.300 X Cap/1000) EER
	>15 kBtu/h: 10.0 EER	>15 kBtu/h: 9.5 EER
Packaged Terminal Heat Pump (PTHP) (Cooling)*	<7 kBtu/h: 12.5 EER	<7 kBtu/h: 11.9 EER
PTHP (dwelling units, cooling)*	≥7 and ≤ 10 kBtu/h: 14.7 - (0.320 X Cap/1000) EER	≥7 and ≤ 15 kBtu/h: 14.0 - (0.300 X Cap/1000) EER
	> 10 kBtu/h: 11.5 EER	> 15 kBtu/h: 9.5 EER
PTHP (common spaces, cooling)*	≥7 and ≤ 15 kBtu/h: 14.7 - (0.320 X Cap/1000) EER	≥7 and ≤ 15 kBtu/h: 14.0 - (0.300 X Cap/1000) EER
	>15 kBtu/h: 10.0 EER	>15 kBtu/h: 9.5 EER
PTHP (dwelling units, heating)*	< 8 kBtu/h: 3.3 COP ≥ 8 kBtu: 3.7- (0.052 X Cap/1000)	3.4 COP
PTHP (common spaces, heating)*	<7 kBtu/h: 3.3 COP	<10.5 kBtu/h: 3.4 COP
	≥7 and ≤15 kBtu/h: 3.7- (0.052 X Cap/1000) COP	≥10.5 and ≤12 kBtu/h: 3.3 COP
	> 15 kBtu/h: 2.9 COP	> 12 kBtu/h: 3.2 COP
Air cooled heat pump (Split system and single package)*		
Air cooled heat pump (<65 kBtu/h)	See Reference Design	
Air cooled heat pump (≥65 and <135 kBtu/h)	15.1 IEER, 3.5 COP	
Air cooled heat pump (≥135 and <240 kBtu/h)	14.4 IEER, 3.4 COP	
VRF Air Conditioners and Heat Pumps*	16.2 IEER, 3.3 COP	
Water-loop heat pump (WLHP) (<135 kBtu/h)*	15.0 EER, 4.5 COP	
Boilers, hot water (<300,000 Btu/h, <u>dwelling units</u> )	See Reference Design	
Boilers, hot water (≥300,000 Btu/h)	CZ 1-3 80% Et CZ 4a+4b 86% Et (89% Et with WLHP)	95% Et (90% Et with WLHP)
<u>Boilers, hot water (common spaces)</u>	CZ 1-3 80% Et CZ 4a+b 86% AFUE or Et	86% AFUE or Et

Cap means the rated capacity of the product in Btu/h.

\*For buildings where dwelling units are served by heat pump hot-water heaters, space conditioning efficiency-equipment may instead meets the efficiency listed in ASHRAE 90.1-2019. Use the ~~efficiency~~ values for "after 1/1/2023" where listed.