



DRAFT National Rater Field Checklist Footnotes

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 5% improvement over those listed in ASHRAE 90.1-2019. Use the values for "after 1/1/2023" where listed.

| Equipment Type | CZ 1-4b ¹⁰ | CZ 4c-8 ¹⁰ |
|---|---|--|
| 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) | 15.7 IEER | 14.6 IEER |
| Air conditioners, air cooled (≥135 and <240 kBtu/h) | 15.1 IEER | 14.0 IEER |
| Air conditioners, air cooled (≥240 and < 760 kBtu/h) | 14.1 IEER | 13.0 IEER |
| Electric resistance space heating | <ul style="list-style-type: none"> Not permitted in any dwelling unit using the Prescriptive Path 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 | |
| Warm-Air Furnace (<225 kBtu/h, common spaces) | See Reference Design | 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 | 82% Et 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, dwelling units) | 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) |
| Boilers, hot water (common spaces) | 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 water heaters, space conditioning equipment may instead meet the efficiency listed in ASHRAE 90.1-2019. Use the values for "after 1/1/2023" where listed.