BPA Heat Pump Specification

Version 10/1/2017

Applicable to: Commercial Heat Pump Upgrades and Heat Pump Conversions

Note: Selected equipment must meet both cooling and heating Tier requirements (if listed)

Specification last updated 4/2017

Heat Pumps - Air Source

Eqiuipment Size		Heating		Tier 1 (High	Tier 2 (Highest
(Btu/h)	Mode	Туре	Subcategory	Efficiency)	Efficiency)
	Cooling Mode	All	Split System	15 SEER	16 SEER
<65,000		All	Single Package	15 SEER	16 SEER
<03,000	Heating Mode	-	Split System	8.5 HSPF	9 HSPF
		-	Single Package	8 HSPF	8.2 HSPF
	Cooling Mode	Electric Resistance	Split System and	12.2 IEER	13.6 IEER
		(or None)	Single Package		
≥65,000	Cooling Mode	All Other	Split System and	12 IEER	13.4 IEER
and			Single Package		
<135,000	Heating Mode	-	47°F db/43°F wb	3.4 COP	N/A
			Outdoor Air		
		-	17°F db/15°F wb	2.4 COP	N/A
			Outdoor Air		
	Cooling Mode	Electric Resistance	Split System and	11.6 IEER	N/A
		(or None)	Single Package		
≥135,000		All Other	Split System and	11.4 IEER 3.2 COP	N/A N/A
and			Single Package		
<240,000	Heating Mode	-	47°F db/43°F wb		
			Outdoor Air		
		-	17°F db/15°F wb	2.1 COP	N/A
			Outdoor Air		
	Cooling Mode	Electric Resistance	Split System and	10.6 IEER	N/A
≥240,000 and <760,000		(or None)	Single Package		
		All Other	Split System and	10.4 IEER	N/A
			Single Package		
	Heating Mode	-	N/A	N/A	N/A

Heat Pumps - Water Source

Eqiuipment Size		Heating		Tier 1 (High	Tier 2 (Highest
(Btu/h)	Mode	Type	Subcategory	Efficiency)	Efficiency)
<135,000	Cooling Mode	All	86° Entering Water	14 EER	N/A
	Heating Mode	-	68° Entering Water	4.6 COP	N/A

SEER—Seasonal Energy Efficiency Ratio EER—Energy Efficiency Ratio

HSPF— Heating Seasonal Performance Factor IEER—Integrated Energy Efficiency Ratio COP—Coefficient of Performance db—Dry Bulb wb—Wet Bulb

The BPA specification is based on the Consortium for Energy Efficiency (CEE) Commercial Unitary Air-conditioning and Heat Pumps Specification, last updated January 12, 2016. BPA is a member of the CEE High Efficiency Commercial Unitary Air-conditioning and Heat Pump Initiative. As part of this Initiative, BPA has adopted CEE's Tier 1 and Tier 2 convention, in addition to a part-load metric in order to focus on energy efficiency savings rather than peak energy savings. More information about CEE can be found at http://www.cee1.org/