AWHS 8.0 valid until June 30, 2024

Commercial Multifamily Heat Pump Water Heater Qualified Products List							
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	Climate Zone Hot						
Product Tier See Notes	Product Brand	Model	Qualified Piping Configurations	Modeled System COP	CTA-2045 Compliant Communication Port		
Tier 4							
SYSTEM COP: 3.5							
Tier 3	Tier 3						
SYSTEM COP: 2.75	SanCO2	GS3-45HPA-US-SP	Single Pass, w/ Swing tank temp. maintenance ^c	2.9	Y		
	<u>WaterDrop</u>	WD1T-**-***-**-*-*-*-*-*-*	Single Pass, w/ Swing tank temp. maintenance ^c	2.9	Y		
Tier 2	Tier 2						
SYSTEM COP: 2.25	<u>Mitsubishi</u>	QAHV-N136TAU-HPB(-**)	Single Pass, w/ Swing tank temp. maintenance ^c	2.5	Y		
	Nyle	C-Series	Single Pass, w/ Swing tank temp. maintenance ^c	2.3	N		
Tier 1	Tier 1						
SYSTEM COP: 1.75							

Climate Zone Mild							
Product Tier See Notes	Product Brand	Mode!	Qualified Piping Configurations	Modeled System COP	CTA-2045 Compliant Communication Port		
Tier 4							
SYSTEM COP: 3.0	SanCO2	GS3-****-**	Single Pass, w/ Swing tank temp. maintenance ^c	3	Y		
	<u>WaterDrop</u>	WD1T-**-***-**-*-*-*-*-*-*	Single Pass, w/ Swing tank temp. maintenance ^c	3	Y		
Tier 3	Tier 3						
SYSTEM COP: 2.5	Mitsubishi	QAHV-******-***(-**)	Single Pass, w/ Swing tank temp. maintenance ^c	2.5	Y		
Tier 2							
SYSTEM COP: 2.0							
Tier 1	Tier 1						
SYSTEM COP: 1.5	Nyle	C-***-***	Single Pass, w/ Swing tank temp. maintenance ^c	1.9	N		
Climate Zone Cold							

Product Tier See Notes	Product Brand	Model	Qualified Piping Configurations	Modeled System COP	CTA-2045 Compliant Communication Port	
Tier 4						
SYSTEM COP: 2.75	SanCO2	GS3-45HPA-US-SP	Single Pass, w/ Swing tank temp. maintenance ^c	2.9	Y	
	<u>WaterDrop</u>	WD1T-**-***-***-*-*-*-*-*-*	Single Pass, w/ Swing tank temp. maintenance ^c	2.9	Υ	
Tier 3						
SYSTEM COP: 2.25	Mitsubishi	QAHV-N136TAU-HPB(-**)	Single Pass, w/ Swing tank temp. maintenance ^c	2.4	Υ	
Tier 2						
SYSTEM COP: 1.6	<u>Nyle</u>	C-Series	Single Pass, w/ Swing tank temp. maintenance ^c	1.8	Ν	
Tier 1						
SYSTEM COP: 1.25						

Climate Zone Very Cold							
Product Tier See Notes	Product Brand	Model	Qualified Piping Configurations	Modeled System COP	CTA-2045 Compliant Communication Port		
Tier 4							
SYSTEM COP: 2.5	SanCO2	GS3-45HPA-US-SP	Single Pass, w/ Swing tank temp. maintenance ^c	2.7	Y		
	<u>WaterDrop</u>	WD1T-**-***-**-*-*-*-*-*-*	Single Pass, w/ Swing tank temp. maintenance ^c	2.7	Y		
Tier 3							
SYSTEM COP: 2.15							
Tier 2	Tier 2						
SYSTEM COP: 1.5	Mitsubishi_	QAHV-N136TAU-HPB(-**)	Single Pass, w/ Swing tank temp. maintenance ^c	2.1	Y		
	Nyle	C-Series	Single Pass, w/ Swing tank temp. maintenance ^c	1.5	Ν		
Tier 1							
SYSTEM COP: 1.15							

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Notes Fields

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For models listed with an asterisk "*", any number or letter is allowed to substitute for the *. For example, *** could be 120 or 130.

NEEA Advanced Water Heating Specification, Section 3.3.5 Qualified Piping Configurations:

Single Pass

- a. No hot water circulation, primary heat pump water heating only (Figure 2)
- b. Hot water circulation returned to the primary storage (Figure 3)
- c. Hot water circulation returned to a temperature maintenance tank in series w/electric resistance element, also referred to as a "swing tank" (Figure 4)
- d. Hot water circulation returned to a temperature maintenance storage tank in parallel with multi-pass HPWH for reheat (Figure 5)

Multi-Pass

- e. Integrated HPWH, no hot water circulation (Figure 6)
- f. Integrated HPWH, hot water circulation returned to primary storage (Figure 7)
- g. Split-system HPWH, hot water circulation returned to the primary storage (Figure 8)
- h. Split-system HPWH, no hot water circulation (Figure 6 without return or pump)

Commercial HWPH System Efficiency Tiers

The SysCOP modeled for each configuration of each HPWH product line may qualify for one of four tiers in each of the four climate zones to which it is applied. The SysCOP required to qualify for each tier in each climate zone is shown in Table 3 below. Each product line's tier qualification is published in the Qualified Products List.

Fable 1. HPWH System Efficiency Tiers						
	Minimum SysCOP					
	Hot Climate (IECC Zones 1–2)	Mild Climate (IECC Zones 3-4)	Cold Climates (IECC Zones 5-6)	Extremely Cold Climates (IECC Zones 7-8)		
Tier 1	1.75	1.50	1.25	1.15		
Tier 2	2.25	2.00	1.60	1.50		
Tier 3	2.75	2.50	2.25	2.15		
Tier 4	3.50	3.00	2.75	2.50		





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