



Introducing NEEP's new Cold Climate ASHP Product List Website

- Dave Lis, Director, Technology and Market Solutions
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-



Webinar Logistics



- Attendees will be muted for the entirety of the webinar
- There will be an opportunities to comment/ask questions. We will ask you to enter questions via chat box on the GoToWebinar sidebar
- Webinar is being recorded and will be made publically available



**Slides will be
circulated
following call**

Purpose of today's webinar

Provide ASHP stakeholders:

- An introduction to the new web-based ccASHP Product List format and functionality
- A clearer understanding of how to subscribe/engage the Initiative

Northeast Energy Efficiency Partnerships



“Assist the Northeast and Mid-Atlantic region to reduce building sector energy consumption 3% per year and carbon emissions 40% by 2030 (relative to 2001)”

Mission

We seek to accelerate regional collaboration to promote advanced energy efficiency and related solutions in homes, buildings, industry, and communities.

Approach

Drive market transformation regionally by fostering collaboration and innovation, developing tools, and disseminating knowledge



About NEEP

A Regional Energy Efficiency Organization



Launch Polls



- Stakeholder type?
- Current level of engagement with NEEP's ASHP Initiative?

Agenda

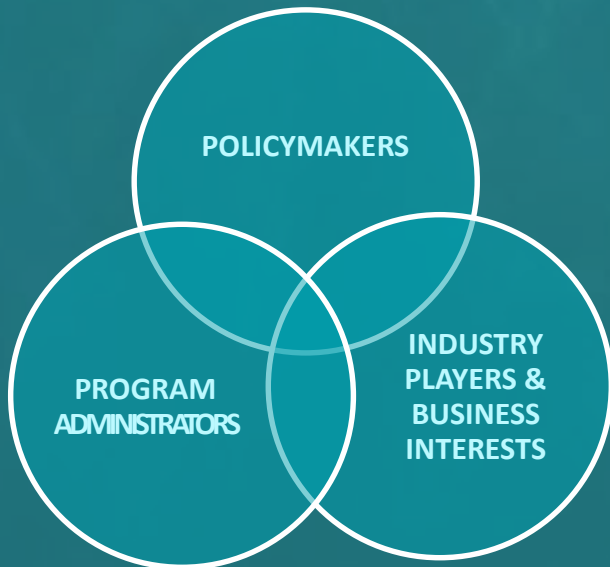
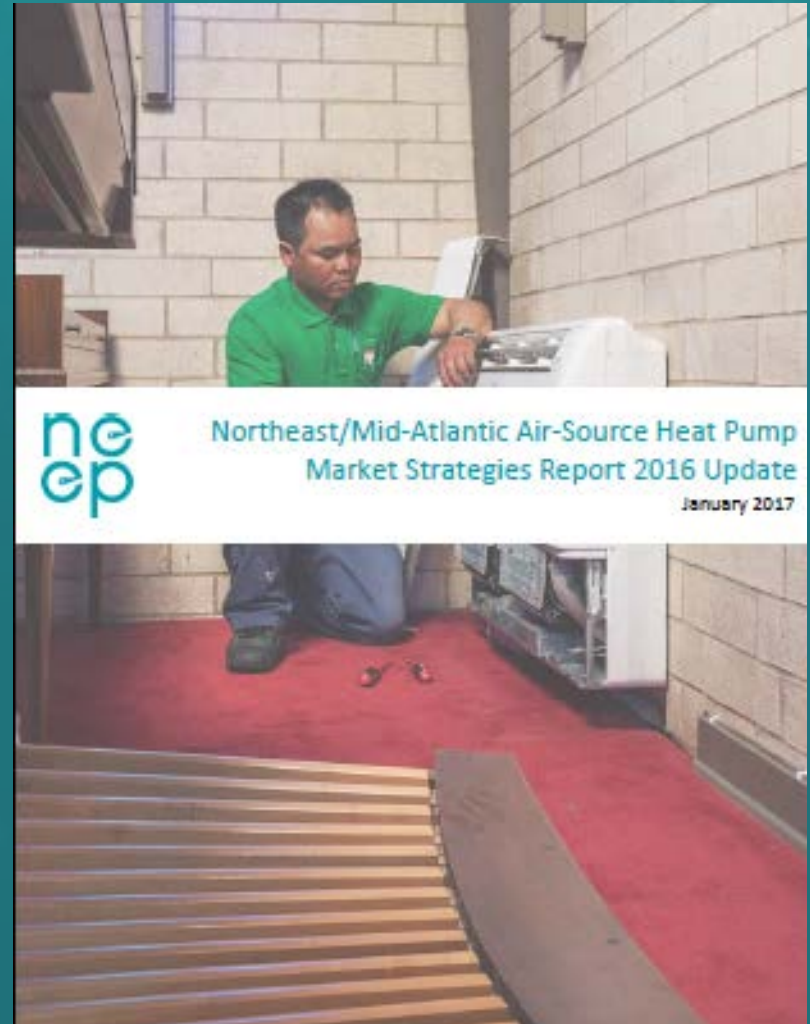


- Welcome
- Background of Specification/Product List
- Demo of new Website's format/functionality
- How to become a subscriber
- Q&A
- Wrap-up

Initiative history



Regional ASHP Market Transformation Strategy



Market Transformation Strategies



- 1. Increase consumer education and awareness**
- 2. Increase installer/builder awareness of, and confidence in, ASHP through expanded training and education**
- 3. Reduce upfront costs of installed systems through robust and aligned promotional programs and the support of alternative business models**
- 4. Mobilize state and local policymakers to expand support for ASHPs**
- 5. Promote advanced control technologies to allow automated coordination among multiple heating systems**
- 6. Enable the promotion of climate-appropriate ASHPs through improved performance metrics**
- 7. Develop more accurate tools to predict energy, cost and GHG savings associated with ASHP installation through collection and analysis of real world performance data**

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Drivers for ccASHP Specification/Product list



- Antiquated test procedure/performance metrics for ASHPs
- Creates difficulty in differentiating high performing systems, particularly for cold climate applications
- For more background on development of Specification, visit NEEP's website - <https://neep.org/ASHP-Specification>

NEEP Cold-Climate Specification/ Product List



General Information														Capacity (btu/hr)		
Manufacturer	Brand (if applicable)	AHRI Certificate No.	Outdoor Unit Model	Indoor Unit Model(s)	HSPF (Region IV)	SEER	EER (@ 95°F)	ENERGY STAR Certified	Ductless or Ducted	If Ductless, Multi-zone or Single-zone	Minimum Capacity 47°F	Rated Capacity 47°F	Maximum Capacity 47°F			
DISCLAIMER- Some of the performance values reported as part of the Cold-Climate ASHP Specification are NOT derived from industry standard test procedures or third-party tested/verified (i.e. performance values at 5°F).																
Products added to list since previous update highlighted in pink																
Updated: March 9, 2017																
7	Daikin		3208521	RXG09HVJU	FTXG09HVJU	11	26.1	15.8	Yes	Ductless	Single-zone	4,668	12,000	18,670		
8	Daikin		3208522	RXG12HVJU	FTXG12HVJU	10.55	24.2	14	Yes	Ductless	Single-zone	4,668	16,000	19,130		
9	Daikin		3208523	RXG15HVJU	FTXG15HVJU	10	21	12.9	Yes	Ductless	Single-zone	4,668	18,000	21,280		
10	Mitsubishi		4217888	MUZ-FE18NA	MSZ-FE18NA	10.3	20.2	14.2	Yes	Ductless	Single-zone	7,500	21,600	29,700		
11	Mitsubishi		4908219	MUZ-FE09NA	MSZ-FE09NA	10	26	15.5	Yes	Ductless	Single-zone	3,000	10,900	18,000		
12	Mitsubishi		4934170	MUZ-FE12NA	MSZ-FE12NA	10.5	23	12.9	Yes	Ductless	Single-zone	3,000	13,600	21,000		
13	Fujitsu		5063325	AOU9RLS2	ASU9RLS2	12.5	27.2	16.1	Yes	Ductless	Single-zone	3,100	12,000	22,000		
14	Fujitsu		5063326	AOU12RLS2	ASU12RLS2	12	25	13.8	Yes	Ductless	Single-zone	3,100	16,000	22,110		
15	Daikin		5265753	RXS09LVJU	FTXS09LVJU	12.5	24.5	15.3	Yes	Ductless	Single-zone	4,400	12,000	15,600		
16	Daikin		5265755	RXS12LVJU	FTXS12LVJU	12.5	23	12.8	Yes	Ductless	Single-zone	4,800	14,400	18,000		
17	Daikin		5265756	RXS15LVJU	FTXS15LVJU	11.6	20.6	14.4	Yes	Ductless	Single-zone	5,800	18,000	22,300		
18	Daikin		5265757	RXS18LVJU	FTXS18LVJU	11	20.3	12.7	Yes	Ductless	Single-zone	5,800	21,600	26,700		
19	Daikin		5265758	RXS24LVJU	FTXS24LVJU	10.6	20	12.5	Yes	Ductless	Single-zone	7,800	25,400	31,400		
20	Nortek Global	Maytag	5597453	PSH4BG024K	B6VMAX024K-B	10	19	13.9	Yes	Ducted	N/A	10,200	22,400	24,700		
21	Nortek Global	Maytag	5597457	PSH4BG036K	B6VMAX036K-B	10	19	12.9	Yes	Ducted	N/A	16,500	34,400	36,800		
22	Fujitsu		5751311	AOU9RLFC	AUU9RLF	13	24	14.5	Yes	Ductless	Single-zone	3,100	12,000	18,000		
23	Fujitsu		5751312	AOU9RLFC	ARU9RLF	12.2	21.5	14.5	Yes	Ductless	Single-zone	3,100	12,000	18,000		
24	Fujitsu		5751313	AOU12RLFC	AUU12RLF	12.2	21.9	12.8	Yes	Ductless	Single-zone	3,100	16,000	19,400		
25	Fujitsu		5751314	AOU12RLFC	ARU12RLF	11.5	20	12.8	Yes	Ductless	Single-zone	3,100	16,000	19,400		
26	LG		5859619	LUU187HV	LCN187HV	10.1	20	15	Yes	Ductless	Single-zone	9,300	20,000	22,000		
27	LG		6236101	LSU240HSV3	LSN240HSV3	10.2	20	12.5	Yes	Ductless	Single-zone	3,070	27,600	38,900		
28	American Standard		6749789	4A6V0024A1	*AM8C0B30V21	10	19.25	13.75	Yes	Ducted	N/A	7,800	20,200	21,900		
29	American Standard		6749791	4A6V0048A1	*AM8C0C48V41	10	19.25	12.5	Yes	Ducted	N/A	11,800	42,500	42,600		
30	Trane		6749942	4TWV0024A1	*AM8C0B30V21	10	19.25	13.75	Yes	Ducted	N/A	7,800	20,200	21,900		
31	Trane		6749944	4TWV0048A1	*AM8C0C48V41	10	19.25	12.5	Yes	Ducted	N/A	11,800	42,500	42,600		
32	American Standard		6750232	4A6V8036A1	*AM8C0C36V31	10	18	13	Yes	Ducted	N/A	8,200	32,200	32,200		
33	American Standard		6750233	4A6V8048A1	*AM8C0C48V41	10	18	12.5	Yes	Ducted	N/A	11,800	41,000	43,000		

Current Product List (3.9.17)

Delisted (on 1.1.17)



Search bar

How is the Specification/Product List being used? Program Summary



Program summary:

<https://neep.org/sites/default/files/resources/2019ASHPProgramSummaryUpdatedFeb2019.pdf>

List both used by:

- Programs for qualification
- Engineers, contractors, and other practitioners to assist in sizing/selection of products

Drivers for Change....



1. DISC AMPER: Some of the performance values reported as part of the CACI Climate ASHP Specifications are NOT defined from industry standard test procedures or third party tested content (i.e. performance values at 97°F).

2. Products added to list since previous update highlighted in pink.


3.

4.

5. Updated March 9, 2017

General Information													Capacity (at 97°F)		
Manufacturer	Brand (if applicable)	AHRI Certificate No.	Outdoor Unit Model	Indoor Unit Model(s)	HP/HPF	SEER	SEER 95	ENERGY STAR	Efficient	† Ductless or Ductless	† Ductless, Multi-zone or Single-zone	Minimum Capacity 47°F	Rated Capacity 47°F	Maximum Capacity 47°F	
Daikin		32905791	RX2DP09VJ01	FTX2509V010	11	26.1	15.8	Yes	Ductless	Single-zone		4,000	12,000	18,800	
Daikin		32905792	RX2DP09VJ01	FTX2509V010	13.5	24.2	14	Yes	Ductless	Single-zone		4,000	16,000	19,120	
Daikin		32905793	RX2DP09VJ01	FTX2509V010	10	21	12.9	Yes	Ductless	Single-zone		4,000	16,000	21,700	
Mitsubishi		42979980	MSZ-FE17NA	MSZ-FE17NA	10.9	20.2	14.2	Yes	Ductless	Single-zone		2,500	23,000	29,700	
Mitsubishi		49002119	MSZ-FE20NA	MSZ-FE20NA	10	20	15.5	Yes	Ductless	Single-zone		3,000	10,000	15,000	
Mitsubishi		49134170	MSZ-FE17NA	MSZ-FE17NA	10.9	20	12.9	Yes	Ductless	Single-zone		3,000	13,000	17,000	
Fujitsu		50052295	ASQG09L02	ASQG09L02	12.5	27.2	16.1	Yes	Ductless	Single-zone		3,500	12,000	16,000	
Fujitsu		50052296	ASQH12R02	ASQH12R02	12	25	13.8	Yes	Ductless	Single-zone		3,500	16,000	19,000	
Daikin		52607253	RX2S14VJ01	FTX2509V010	12.5	24.5	15.3	Yes	Ductless	Single-zone		4,000	12,000	18,000	
Daikin		52607254	RX2S14VJ01	FTX2509V010	12.5	22	12.8	Yes	Ductless	Single-zone		4,000	12,000	18,000	
Daikin		52607256	RX2S14VJ01	FTX2509V010	11.8	20.6	14.4	Yes	Ductless	Single-zone		3,000	12,000	18,000	
Daikin		52607257	RX2S14VJ01	FTX2509V010	11	20.5	12.7	Yes	Ductless	Single-zone		3,000	12,000	18,000	
Daikin		52607258	RX2S14VJ01	FTX2509V010	10.6	20	12.5	Yes	Ductless	Single-zone		2,800	12,000	18,000	
North Central	Maytag	55074531	P5H11C400K	D2VMA0324K-B	10	16	13.0	Yes	Ducted	N/A		10,500	24,000	34,000	
North Central	Maytag	55074532	P5H11C400K	D2VMA0324K-B	10	19	12.9	Yes	Ducted	N/A		10,500	24,000	34,000	
Fujitsu		57513111	ASQG09L02	ASQG09L02	13	24	14.5	Yes	Ductless	Single-zone		3,500	12,000	16,000	
Fujitsu		57513112	ASQK09L02	ASQK09L02	12.2	21.5	14.5	Yes	Ductless	Single-zone		3,500	12,000	16,000	
Fujitsu		57513113	ASQK09L02	ASQK09L02	12.2	21.5	12.8	Yes	Ductless	Single-zone		3,500	16,000	19,400	
Fujitsu		57513114	ASQK09L02	ASQK09L02	11.5	20	12.8	Yes	Ductless	Single-zone		3,500	16,000	19,400	
L.G.		58061191	LUA1100W	CU1187V	10.1	20	10	Yes	Ductless	Single-zone		3,500	20,000	27,000	
L.G.		60274191	LUA2000V01	CU1187V	10	20	12.5	Yes	Ductless	Single-zone		3,000	27,000	30,000	
American Standard		67491789	44AV12R4A1	AMBAC3002V1	10	19.25	13.75	Yes	Ducted	N/A		2,800	20,200	21,900	
American Standard		67491791	44AV12R4A1	AMBAC3002V1	10	19.25	12.9	Yes	Ducted	N/A		11,800	42,500	42,500	
Traze		67499442	41VW00R4A1	AMBAC3002V1	10	19.25	13.75	Yes	Ducted	N/A		2,800	20,200	21,900	
Traze		67499444	41VW00R4A1	AMBAC3002V1	10	19.25	12.5	Yes	Ducted	N/A		11,800	42,500	42,500	
American Standard		67500212	44AV12R4A1	AMBAC3002V1	10	18	13	Yes	Ducted	N/A		9,200	32,200	32,200	
American Standard		67500213	44AV12R4A1	AMBAC3002V1	10	18	12.5	Yes	Ducted	N/A		11,800	41,000	41,000	

- User-friendly
- Sort/Search functions
- Streamline application process
- Security/content control



Amana AVZC20
Amana
AHRI Cert #: 10324704 | AHRI Type: HRCU-A-CB-0
23,400 Btu

Efficiency Specs	
EER	13.00
Energy Star	true
...	
Duct Type	Centrally Ducted

Model Numbers	
Indoor/Outdoor	Model #
Outdoor	AVZC200241A*
Indoor	CA*3642*6D**MBVC1200**-1A**TX

Performance Specs					
Outdoor Dry Bulb	Indoor Dry Bulb	Unit	Min	Rated Max	
47°F	70°F	Btu/h	5,507	23,600	23,600
		kW	0.33	1.87	1.87
		COP	4.92	3.70	3.70
17°F	70°F	Btu/h	3,943	13,915	15,200
		kW	0.34	1.49	1.82
		COP	3.42	2.74	2.45
5°F	70°F	Btu/h	1,650	-	11,400
		kW	0.30	-	1.60
		COP	1.63	-	2.09

Pan Heater	
Type	None

Thanks for you patience

- Special thank you to Manufacturers for your engagement and patience during transition period.
- Still going to be a work in progress



...Demo time!

1. Landing Page... neep.org/ashp
2. Product Search features
 1. Products page; Intro to search filters
 2. Detailed view (pdf capability)
3. Complete List Download (restricted to subscribers)
ccASHP@neep.org

Subscription Benefits

- “Unfettered” Access to ccASHP Product List
- Participation in NEEP’s ASHP/VRF Working Groups
- Participation in a number of sub-committees
- Opportunity to contribute to the development of NEEP resources/tools
- Technical assistance
- Visibility

Initiative Subscription Costs



TABLE B: 2019 NEEP ASHP & Smart Controls Annual Subscription Fees
(Required by 4/1/2019)

1. State Partnership Subscription (same as 2019 State Partnership pricing)	Population < 3 million	Population 3-10 Million	Population > 10 million
	\$25,000	\$35,000	\$50,000
2. Utility/Government Program Subscription (i.e., utilities/programs not part of a state partnership)	Program Budget <\$10M	Program Budget \$10M-\$100M	Program Budget >\$100M
	\$5,000	\$10,000	\$20,000
3. Industry Subscription (i.e., manufacturers, service providers, consultants, non-profit organizations, trade associations)	Non-profit, Small Business (<20 employees)	Standard Industry	
	\$2,500	\$5,000	
4. Individual ASHP installer/Municipal Employee/ Community-Based Organization Subscription/Grant Providers ^{Note 1}	No Cost		

Next steps to become a subscriber

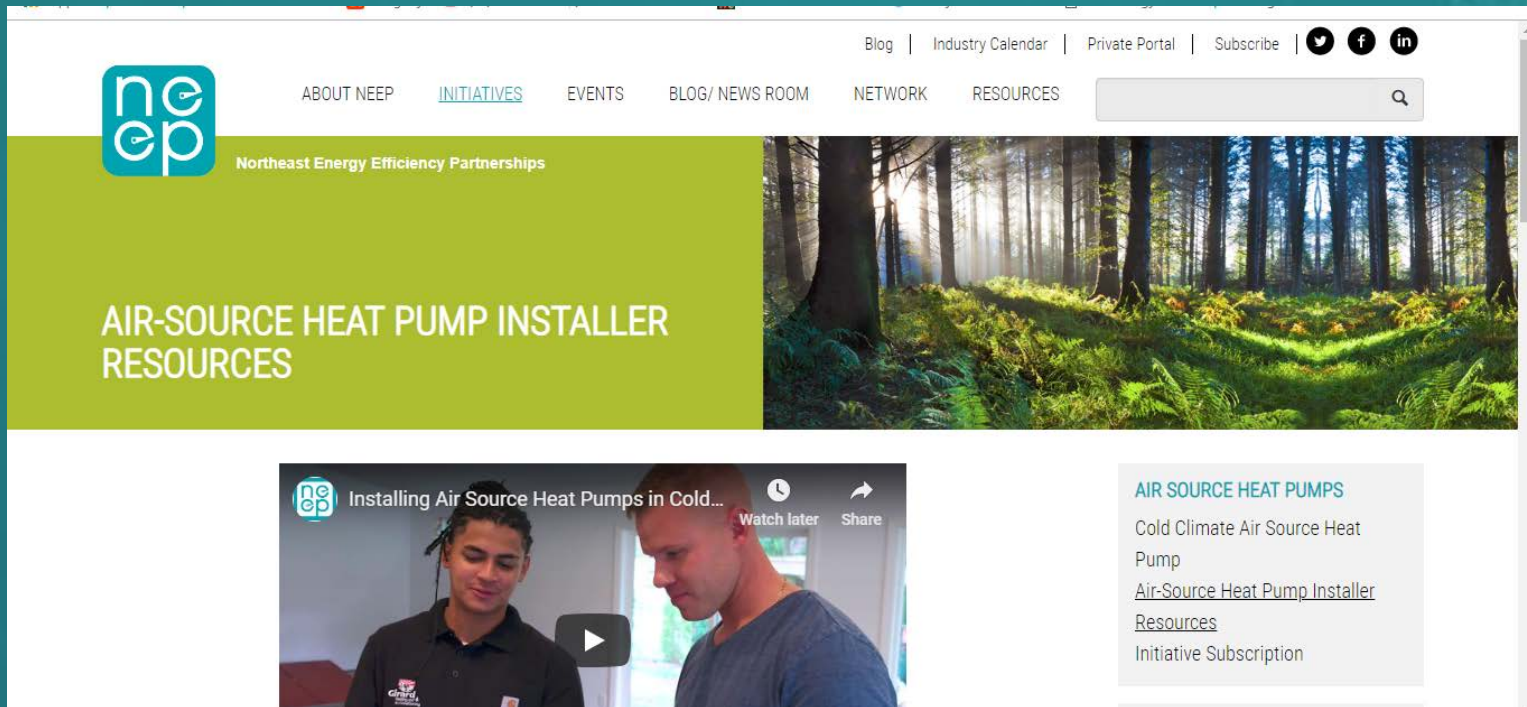
- Go to NEEP's website
 - <https://neep.org/initiatives/high-efficiency-products/emerging-technologies/ashp/subscription>
- Complete Subscription Form linked at top or bottom of Subscription page
- Subscribers receive 25% discount toward NEEP's Allies Program





Please type your questions into the sidebar

Installer/Consumer Resources



Go to; www.neep.org/ASHPIntallerResources
Need your help in driving use!

In-person ASHP Workshop- Save the dates!



- June 18-19
- Woburn, MA
- Day 1: ASHP
- Day 2: ASHP/VRF
- Topics of discussion include:
 - Policy and Decarbonization
 - ASHPs and Controls
 - Mass Adoption: Getting this right, right now!
 - Transforming the VRF Market



Sponsorship options available!

2019 NEEP Summit: Pathways to Decarbonization in the Northeast



<https://neep.org/events/2019-neep-summit-electrification-northeast-symposium>

For sponsorship opportunities, please contact Lucie Carriou

THANK YOU FOR JOINING TODAY'S MEETING!



- Slides/Recording will be circulated tomorrow
- Go to NEEP website to Subscribe!
 - <https://neep.org/initiatives/high-efficiency-products/emerging-technologies/ashp/subscription>
- Register for our annual 2019 ASHP Market Transformation Workshop
 - <https://neep.org/events/2019-ASHP-workshop>
- Please follow up with Dave Lis and/or Claire Miziolek with any further questions or comments.
 - djlis@neep.org , 781-860-9177 x127
 - cmiziolek@neep.org, 781-860-9177 x115
 - ccASHP@neep.org

Hands in!



THANK YOU!

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