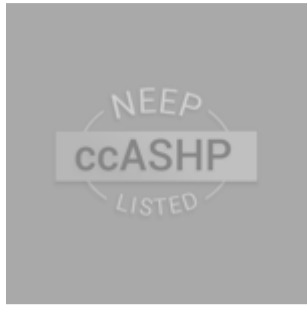


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TEMPSTAR

Central Air Conditioning Heat Pump (HP)

Singlezone Ducted, Centrally Ducted

AHRI Cert #*: **215319098**

Outdoor Unit Model #*: **D5CUHAH30AAK**

Indoor Model #*: **D5FUHAH36XAK**

🔥 Maximum Heating Capacity (Btu/h) @5°F: **33,200**

🔥 Rated Heating Capacity (Btu/h) @47°F*: **33,000**

❄️ Rated Cooling Capacity (Btu/h) @95°F*: **30,000**

[Basic View](#) ⓘ

[Advanced Data - System Sizing](#)

This tool is for preliminary product selection planning only. It is necessary to conduct full engineering capacity assessments that take line-length, multi-head impacts, and other factors into consideration. Use manufacturer's data and tools to finalize product sizing and selection determinations.

ZipCode

Heating Design Temp. (°F) ⓘ

Cooling Design Temp. (°F) ⓘ

Weather Station ⓘ

Heating Design Load (Btu/h) ⓘ

Cooling Design Load (Btu/h) ⓘ

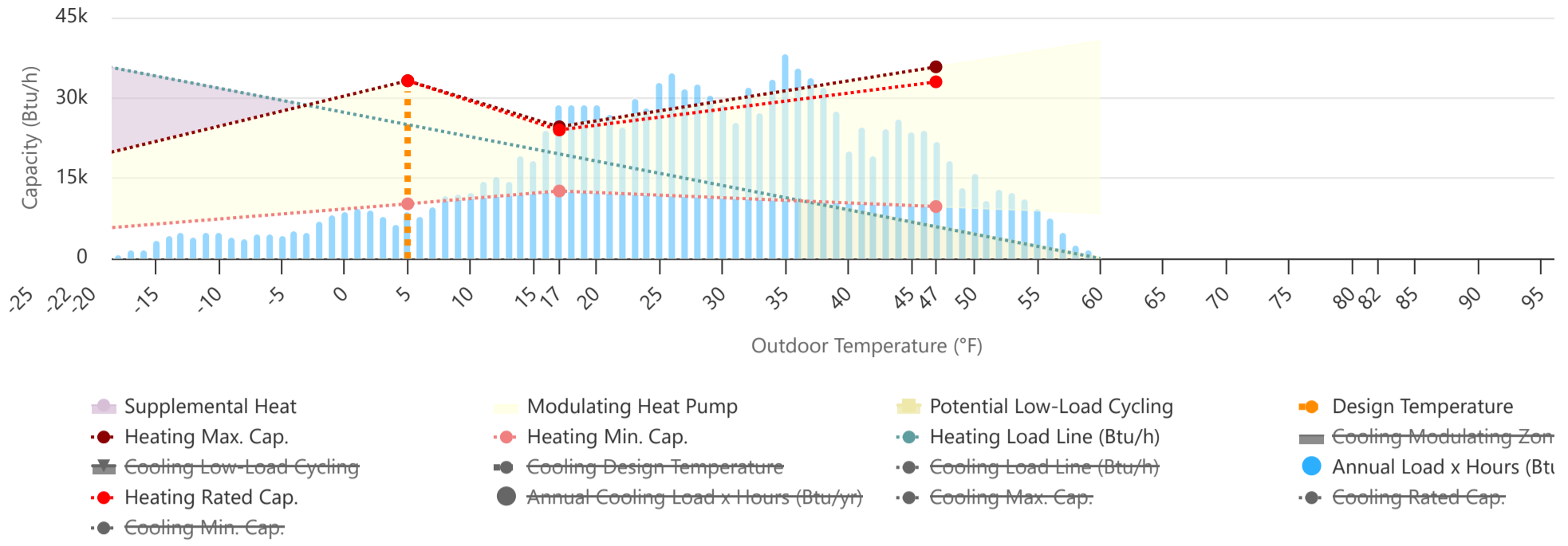
Advanced Search - Sizing for Heating and Cooling [User Guide](#) ⓘ and [Design Load Calculators](#)

[Click here for Optional Settings](#)

[Run System Sizing](#)

Graph Information ⓘ

System Capacity, Heating and Cooling Load, and Weather Data Graph



Product Sizing For Heating

[View Oversizing Effects](#) i

[Definition/Use Cases](#) i

Capacity Balance Point (°F)	-3
Minimum Capacity Threshold (°F)	36
Maximum Capacity at Design Temp (Btu/h)	33,200
Percent Design Load Served	132.8%
Annual Heating Load (MMBtu)	51.8
Percent Annual Heating Load Served	96.5%

[Definition/Use Cases](#) i

Annual Btu's Covered by Supplemental Heat (MMBtu)	1.8
Hours Requiring Supplemental Heat	72
Percent Hours Requiring Supplemental Heat	1.4%
Percent Annual Load Modulating	63.0%
Percent Annual Load with Low-Load Cycling	30.8%

Product Sizing For Cooling

[View Oversizing Effects](#) i

[Definition/Use Cases](#) i

Minimum Capacity Threshold (°F)	99
Maximum Capacity at Design Temp (Btu/h)	37,846
Percent Design Load Served	504.6%
Annual Cooling Load (MMBtu)	5.3

[Definitions/Use Cases](#) i

Percent Annual Cooling Load Served	916.0%
Percent Annual Load Modulating	0.0%
Percent Annual Load with Low-Load Cycling	99.3%

Information Tables

Brand	TEMPSTAR
Series	
Ducting Configuration	Singlezone Ducted, Centrally Ducted
AHRI Certificate #*	215319098

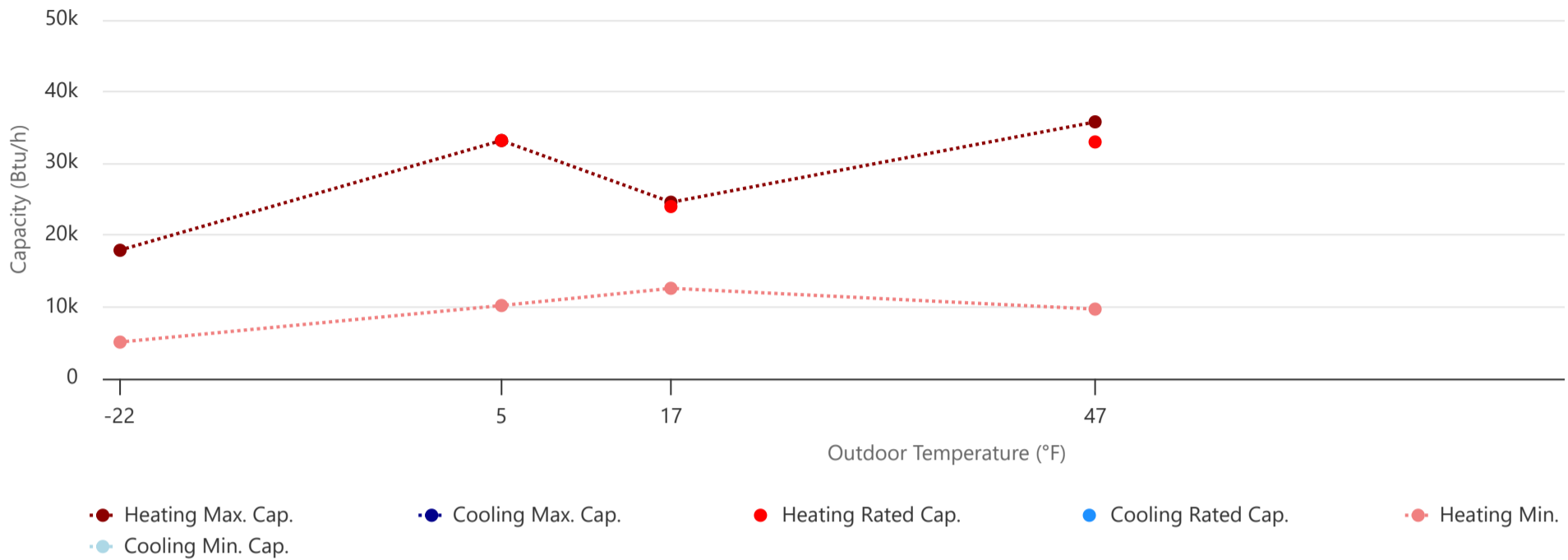
Outdoor Unit Model #⁺	D5CUHAH30AAK
Indoor Model #⁺	D5FUHAH36XAK
Indoor Unit Type⁺	
Furnace Model #⁺	
EER⁺	
SEER⁺	
HSPF (Region IV)⁺	
EER2⁺	12.1
SEER2⁺	17.2
HSPF2 (Region IV)⁺	10.8
HSPF2 (Region V)	8.8
ENERGY STAR V6.1	✓
ENERGY STAR V6.1 Cold Climate	✓
ENERGY STAR V5.0	✗
Federal Tax Credit Eligibility North	✓
Federal Tax Credit Eligibility South	✓
CEE Tier 1 Path A (2025)	✓
CEE Tier 1 Path B (2025)	✓
Capacity Maintenance (Rated 17°F/Rated 47°F)	72%
Capacity Maintenance (Rated 5°F/Rated 47°F)	100%
Capacity Maintenance (Max 5°F/Rated 47°F)	100%
Variable Capacity	✓
Integration	
Connectivity	
Operational Diagnostics	
Refrigerant	R-454B
Created At	2024-09-16
Updated At	2024-09-16
Sold In⁺	USA, Canada

Performance Specs

Heating / Cooling	Outdoor Dry Bulb	Indoor Dry Bulb	Unit	Min	Rated ⁺	Max
Cooling	95°F	80°F	Btu/h ⁺	11,200	30,000	40,000
			kW	1.02	2.48	3.88
			COP	3.22	3.55	3.02
Cooling	82°F	80°F	Btu/h ⁺	12,600	-	34,400
			kW	0.63	-	2.15
			COP	5.86	-	4.69
Heating	47°F	70°F	Btu/h ⁺	9,700	33,000	35,800
			kW	0.58	2.73	3.03
			COP	4.9	3.54	3.46
Heating	17°F	70°F	Btu/h ⁺	12,600	24,000	24,600
			kW	1.33	2.61	3.71
			COP	2.78	2.69	1.94

Heating	5°F	70°F	Btu/h ⁺	10,200	33,200	33,200
			kW	1.27	4.94	4.94
			COP	2.35	1.97	1.97
Heating	-22°F	70°F	Btu/h ⁺	5,100	-	17,900
			kW	1.14	-	3.61
			COP	1.31	-	1.45

Heating/Cooling Capacity Graph

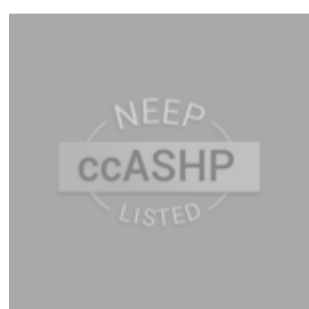
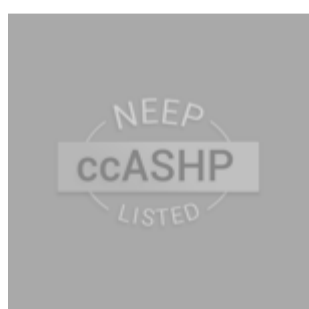
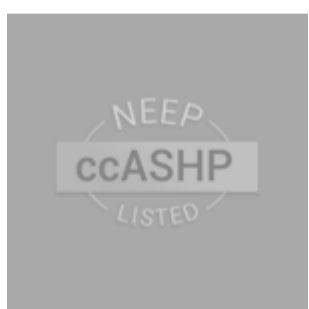
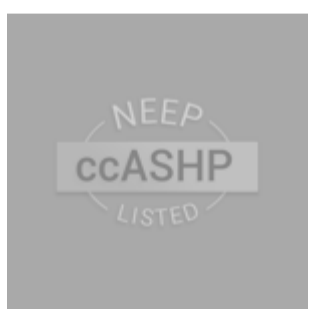
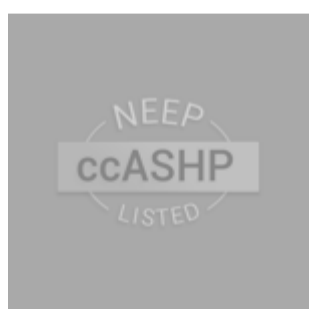


Pan Heater

Type	Integrated
Input Power (W)	150
Operation	1. When the unit power is on/in heating mode, and if the outdoor temperature drops below 30C for 30 seconds, after running for 25mins, the base pan heater will be activated for 5 minutes. 2. In defrost mode and the outdoor temperature lower 10C for 10 seconds the base pan heater will be activated and will be 5 mins delay inactive after defrost.

Additional Heat Pump Images

Related Products

				
GOODMAN GZV7SA AHRI # ⁺ : 215488058 Singlezone Ducted, Centrally Ducted Central Air Conditioning Heat Pump (HP) 🔥 28,400 Max Btu/h @5°F 🔥 35,000 Rated Btu/h @47°F ⁺ ❄️ 34,800 Rated Btu/h @95°F ⁺ COP @5°F: 2 HSPF2 ⁺ : 8.5 Outdoor Unit Model	COMFORTMAKER SOFTSOUND DELUXE 18 VS HP AHRI # ⁺ : 213779950 Singlezone Ducted, Centrally Ducted Central Air Conditioning Heat Pump (HP) 🔥 24,800 Max Btu/h @5°F 🔥 33,200 Rated Btu/h @47°F ⁺ ❄️ 32,200 Rated Btu/h @95°F ⁺ COP @5°F: 1.92 HSPF2 ⁺ : 8.1 Outdoor Unit Model # ⁺ : CVH837GKA**	GE APPLIANCES Connect AHRI # ⁺ : 216604773 Singlezone Ducted, Centrally Ducted Central Air Conditioning Heat Pump (HP) 🔥 29,000 Max Btu/h @5°F 🔥 34,000 Rated Btu/h @47°F ⁺ ❄️ 33,000 Rated Btu/h @95°F ⁺ COP @5°F: 1.8 HSPF2 ⁺ : 7.8 Outdoor Unit Model	AIRQUEST DELUXE 19 VS HP AHRI # ⁺ : 213775758 Singlezone Ducted, Centrally Ducted Central Air Conditioning Heat Pump (HP) 🔥 18,700 Max Btu/h @5°F 🔥 31,600 Rated Btu/h @47°F ⁺ ❄️ 33,800 Rated Btu/h @95°F ⁺ COP @5°F: 1.96 HSPF2 ⁺ : 8 Outdoor Unit Model # ⁺ : HVH836GKA2* Indoor Model # ⁺ :	YORK HMM7 AHRI # ⁺ : 211378591 Singlezone Ducted, Centrally Ducted Central Air Conditioning Heat Pump (HP) 🔥 23,800 Max Btu/h @5°F 🔥 33,800 Rated Btu/h @47°F ⁺ ❄️ 34,000 Rated Btu/h @95°F ⁺ COP @5°F: 2.06 HSPF2 ⁺ : 8.1 Outdoor Unit Model

#*: **GZV7SA3610A***

Indoor Model #*:

CA*EA4830*3A*

Indoor Model #*:

EHD4X36AAL+WALLCON

#*: **NS18H36HA5*****

Indoor Model #*:

NCUC30BT5**+TDR**

EA*4X60L24A*+WALLCON

#*: **HMH72B341**

Indoor Model #*:

XAUB36DXXN1+TXV

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*AHRI certified and verified product information. Rated capacity information is certified and verified by AHRI, input power is manufacturer reported and COP is calculated. Source: ahridirectory.org