



C-Series Air Source Heat Pump Water Heaters

The C-Series Air Source units are Highly Efficient Air-to-Water Heat Pump Water Heating System that heats water by drawing energy from the ambient air. This method saves up to 75% in costs when compared to electric water heaters.

While these units are heating water up to 160°F, they also provide cool air useful for offsetting air conditioning costs. This cooler/dehumidified air can be recirculated back into the immediate area or ducted to a desired location.

These are designed and manufactured in our state of the art facility located in Brewer, Maine. These units use various options to meet your application needs. They are suitable for drinking water applications with the standard NSF 61 approved double wall heat exchanger.

How Our Units Work

Our Air Source Heat Pump Water Heaters capture heat and humidity from the surrounding air and transfers that heat energy into a storage tank. In basic terms, Heat Pump Water Heaters move heat from where it is not needed, to where it is desired. These units provide low cost water heating and supplemental cooling that can be directed to where needed.









Suitable Application

Our Air Source Units range in capacity from 27,000 BTUH to 275,000 BTUH, generating from 50 to 500 gallons of hot water per hour. These units can heat water efficiently up to 160° F and are ideally suited for;

- Hotels / Apartment **Buildings**
- Restaurants
- **Laundry Facilities**
- Hospitals

- Schools / **Dormitories**
- Arenas / Gyms
- Military Barracks
- Office Buildings

These units have a range of base model Heat Pump Water Heaters that can be customized to meet your application needs. Available options include, centrifugal blowers, programmable logic controllers, Building management systems integration hardware, 304 or 316 stainless steel cabinets, and multiple voltages available.





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Key Features and Benefits

- » Leaving water temperatures over 160° F allows for consistent tank temperatures.
- » Typically operating at COP's from 3.0 to 5.0, meaning it is expected to save 60% - 75% versus the costs of running an electric water heater.
- » Can be connected to most storage tanks and water heaters, including: Electric, Oil, Natural Gas, Propane and Solar tanks.
- » Single and Multi pass options are available for different system configurations.
- » Low ambient air kits available for colder climates.
- » Uses environmentally friendly R-134a refrigerant.
- » Integrated NSF 61 approved Stainless Steel circulator pump included.

- » Can be used as preheat system when higher temperatures are desired.
- » Optional Programmable Logic Control (PLC) with BMS hardware allowing integration into your existing mechanical system.
- The air surrounding the unit is being cooled and dehumidified, reducing the load on air conditioning systems, further increasing the savings.
- » The cooler, dehumidified air can be ducted to an alternate location by selecting the blower option.
- » Painted aluminum as well as optional stainless steel cabinet provides superior protection against corrosion. Coated coils for further protection come standard.

* GPM reflects multi pass - single pass is lower

Air Source Product Comparison

Model Number	Water Flow		Performance					Ŝ	Dimensions				Weight	
	Rate (GPM)		Water Heating Capacity		Cooling Capacity		ombined C.O.P	Air Ime (CFM)	Inlet Outlet Water (FPT)		Length x Width x Height		Weight .BS)	Operating Weight (LBS)
	Single Pass**	Multi Pass	втин	Heating C.O.P	втин	Cooling C.O.P	Corr.	Nolu	Single Pass	Multi Pass	Axial	Blower	Dry V	Ope W∈
C25A	2.5	5.4	27,450	5.18	21,200	4.20	9.38	1,250	3/4"	3/4"	45%" x 33" x 24 %"	45%" x 31%" x 24 %"	300	310
C60A	6	13	63,225	5.05	48,425	4.13	9.18	2,800	1"	1"	64¼" x 32½" x 34½"	64¼" x 29½" x 34½"	500	520
C90A	9	20	110,725	5.25	83,625	4.15	9.40	2,800	1"	1½"	70¼" x 32¾" x 40¼"	70¼" x 29¾" x 40¼"	750	775
C125A	12.5	28	144,275	4.93	108,500	3.98	8.91	4,500	1"	1½"	84%" x 37¼" x 36%"	84%" x 34%" x 36%"	1,200	1,240
C185A	18.5	40	224,675	5.33	172,375	4.33	9.66	4,500	1½"	2"	72¾" x 45¼" x 43"	72¾" x 42¾" x 43"	1,350	1,410
C250A	25	50	272,450	4.58	218,000	3.88	8.46	8,000	1½"	2"	84½" x 54¾" x 70"	84½" x 54¾" x 67¾"	2,100	2,175

Performance rating based on

Standard voltage on C25A &C60A models - 208/230 V, 1-phase, 60Hz.

Standard voltage on C125A & C250A models - 208/230 V, 3-phase. 60Hz.

Other power options are available upon request

Note: In view of ongoing product improvements, design and specification are subject to change without notice. Nyle can accept no responsibility for possible errors in catalogs, brochures or any other printed material.

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^{* 75°} F entering air temperature at 60% relative humidity

^{*} Water heated from 50°F to 150°F.