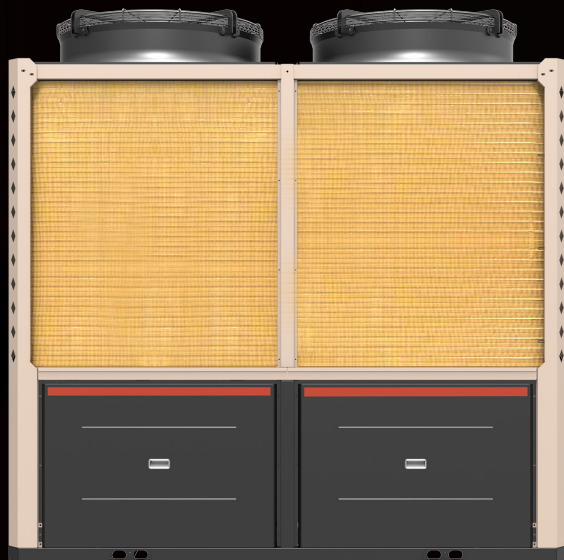


COMMERCIAL HEAT PUMP

Inverter Air-to-Water

Future proof your hydronic systems with environmentally friendly, high efficiency heat pumps with the reliability only ATH can provide.



What are Air Source Heat Pumps??

When operating in heating mode, heat pumps absorb low-temperature heat from the outside air and deliver higher temperature heat to an emitter using water as the heat transfer medium. When operating in cooling mode the heat pump reverses the cycle and delivers chilled water through the same emitter.

Engineers who design commercial, industrial and institutional buildings have long understood the benefits of hydronic based systems in comparison to traditional air systems. By combining the flexibility and efficiencies of hydronic systems with the advantages of modern air-to-water heat pump technologies engineers can build high efficient heating and cooling systems quite easily.

Today's emphasis on green, environmentally friendly technologies reducing the overall carbon footprint make it imperative to think outside the box when it comes to heating and cooling applications.

ATH's new commercial air-to-water heat pumps provide building owners with engineered products built to meet tomorrow's standards, today.

Inverter Driven Compressors

Utilizing the most energy efficient technology available today, ATH uses variable speed inverter driven compressors with load matching to maximize performance efficiency in both heating (to -20°F) and cooling modes. Inverter seamlessly and quietly modulates up and down based on load.

Low Ambient EVI

Enhanced Vapor Injection (EVI) technology found in our scroll compressors in conjunction with the high efficiency condenser used in ATH's heat pumps, provides improved efficiency, reliability and heating capacities, making it the perfect compressor for severe ambient conditions in colder climates, while maintaining the ability to cool during the warmer seasons.

Flexibility

Intelligent load matching touch screen control platform is easy to navigate making setting parameters a breeze. Equipment is easily zoned and have many options for types of emitters including radiant floors and ceilings, hydronic fan coils, panel radiators, low-temp fin-tube baseboard and even active chilled beams.

Environmentally Friendly

Heat pumps not only provide unsurpassed comfort, but they do it safely. Equivalent VRF systems use potentially dangerous refrigerant inside the occupied space while ATH heat pumps keep all refrigerant outside the occupied space and require no fossil fuels for energy transformation as they are all electric.

Features and Benefits

- Environmentally Friendly - Green Technology
- Inverter Compressors
- Low Ambient Performance (-20°F)
- EVI Compressor Technology
- Delivered Hot Water to 140°F
- User Friendly Touch Screen Control Platform
- No Refrigerant Handling
- Easily Piped & Zoned
- Built-in Redundancy



Product Overview



DC Motors

All units utilize external high performance DC motors that operate quietly and efficiently.

C-Fin Heat Exchangers

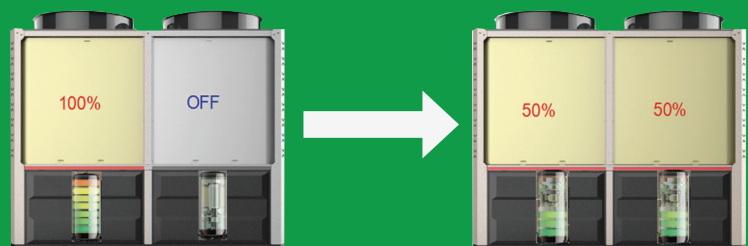
Finned heat exchangers can account for up to 70% of heat transfer on any coil. Our high quality corrugated fins have a directional "edged" configuration resulting in increased air turbulence for maximum heat transfer. Fins also incorporate a special anti-frost coating, increasing frost protection by up to 50% while improving COP.

Integrated Drain Pan

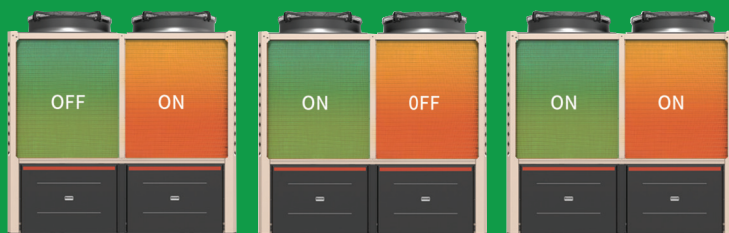
Unique drain pan configuration ensures any water is drained away immediately eliminating freezing and potential drain blockage.

Energy Management

Our intelligent control platform modulates based on load requirements for maximum performance efficiency throughout the operating range. Modulation also protects the equipments moving components further extending the units life cycle.



Dual Systems With Independent Air Cavity



ATH's inverter heat pumps with EVI use dual independent compressor systems allowing individual operation relevant to the system demand. Individual systems also offer redundancy, where if a module is in need of maintenance the other module can still operate at its full capacity.

Commercial Heat Pump



SPECIFICATIONS

HP0275

Heating*	Capacity Range	Btu/hr	101,941-288,226
	Power Input Range	kW	13-28
	Efficiency	COP	Up to 3.04
Heating**	Capacity Range	Btu/hr	66,345-188,981
	Power Input Range	kW	12.85-25.92
	Efficiency	COP	Up to 2.14
Cooling***	Capacity Range	Btu/hr	129,661-203,681
	Power Input Range	kW	8.7-23
	Efficiency	EER	2.5
	IPLV****	EER	17.18
Refrigerant	Type		R410a
	Amount (Qty)	lbs	20 (2)
	Pressure (low)	PSI	305
	Pressure (high)	PSI	638
Dimensions	Shipping (LxWxH)	in	89 x 50 x 89
	Unit (LxWxH)	in	86 x 45 x 84
	Weight	lbs	1615
Electrical	Volts/Ph/hz		460/3/60
	MCA	Amps	60
	MOPD	Amps	70
Hydronic	Pressure Drop (@75GPM)	PSI (ft/hd)	10 (23)
	Connection	In	4
	Min Flow	G.P.M.	44
	Max Flow	G.P.M.	75
	Max System Pressure	PSI	145
	Water Connection	In	4
	Sound @ 3 meters	dB(A)	67
	Operating temps	°F	-20-120

* Heating (DB)@ 47°F, Delivered Water 120°F per AHRI 550-590 (75 GPM) EWT 110°F

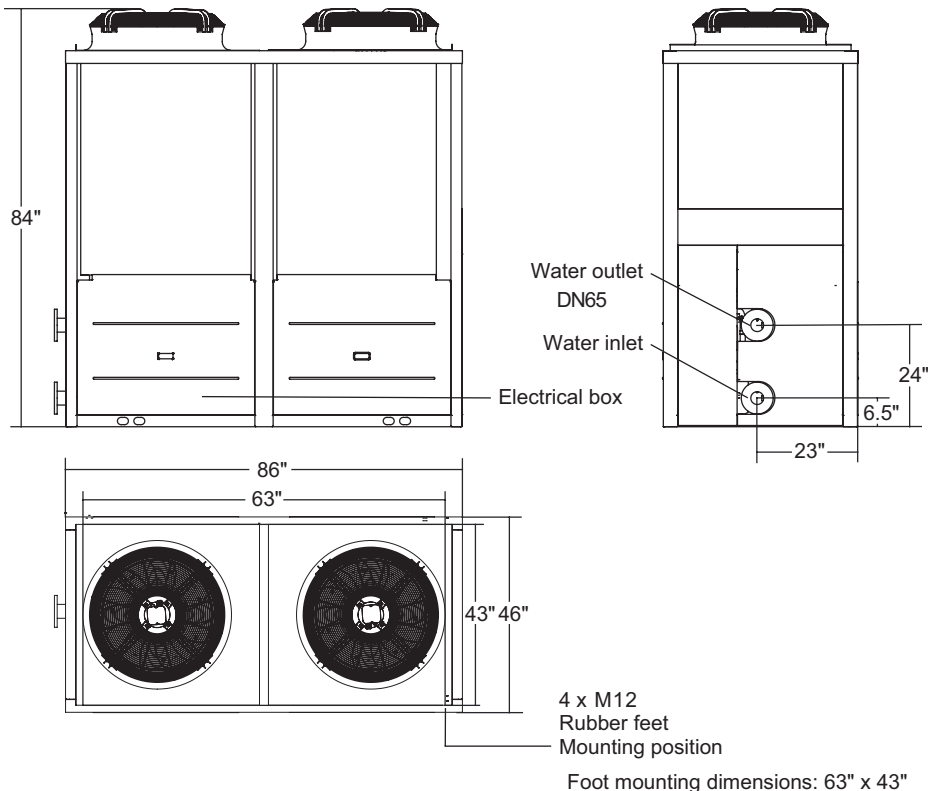
** Heating (DB)@ 17°F, Delivered Water 120°F per AHRI 550-590 (75 GPM) EWT 110°F

***Cooling (DB/WB)@ 95°F/86°F, Delivered Water 44°F per AHRI 550/590 (60GPM) EWT 54°F

****IPLV is the recognized measurement of efficiency for Integrated Part Load Values in accordance with AHRI 550/590.

Ambient temp = 95°F. Delivered Water = 44°F (44GPM)

DIMENSIONS



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