



Closetline®

Packaged Water Source Heat Pump

- ◆ Available in sizes 0.5 to 5.0 nominal tons
- ◆ Single-stage operation up to 17.0 EER
- ◆ Horizontal or vertical configuration
- ◆ Compact footprint with easy service access
- ◆ Open or closed loop applications
- ◆ Hybrid heating and cooling operation
- ◆ CuNi heat exchanger available

... From the pioneer in vertical stack HVAC technology and innovation.





Closetline® Water Source Heat Pump

Great for a Variety of Applications

The Closetline® CAS series from The Whalen Company boasts a compact cabinet, making this heat pump system the perfect solution for commercial retrofit or new construction applications.

The Closetline® CAS series far exceeds the ASHRAE 90.1 minimum efficiency and utilizes environmentally friendly R-410A refrigerant to reduce operating costs without compromising the environment. Closetline® water source heat pumps are popular in a variety of building applications where quiet operation in a compact footprint is a key requirement.

Ideal for New Construction and Rehabilitations – Low-Rise and High-Rise

True to our commitment to offer equipment that's flexible enough to meet the design of the building rather than forcing a building to conform to limitations of the equipment, our Closetline® packaged water source heat pumps can be applied to virtually any type of building.

With its compact footprint, the Closetline® CAS Series is particularly advantageous for new construction or renovation of apartments, condominiums, hotels, senior living facilities, dormitories and office buildings.



**Closetline® Packaged
Water Source Heat Pump**



Benefits that Make a Big Difference

When you consider all of the features of Closetline® units, it's easy to see why they deliver so many benefits to contractors and users alike.

Compact Footprint

Compact cabinet design with quick access for ease of service. Horizontal units can be serviced through the unit bottom to virtually eliminate removing ceiling mounted units for service.

R-410A Refrigerant

Environmentally friendly, non-ozone-depleting refrigerant to protect the Earth.

Fan Operation

Oversized blower for quiet operation. A PSC fan motor is standard for economical operation with an optional constant torque multi-speed EC motor, with soft start and serviceable from one side.

Drain Pan

Internally trapped (vertical models), stainless steel drain pan for years of trouble-free service.

Compressor

Compact and efficient compressors, with double isolation for quiet operation.

Reliable Operation

Thermostatic expansion valve maintains maximum capacity under a wide range of operating conditions.

Coaxial Heat Exchangers

Heavy duty coaxial heat exchanger for reliability. Enhanced internal surface treatment for increased efficiency (CuNi available).

Easy to Install

Water connections are securely mounted flush to the cabinet to eliminate the need for a backup wrench.

Electronic Control Board

Each unit ships with solid state microprocessor controls with safeties built-in for reliable protection.

Built to Last

Satin galvanized and acoustically insulated cabinet for years of quiet operation.

Geothermal Application

Unit capable of operation on a closed loop or a water well installation.

Closetline® CAS Performance Ratings - PSC Motor

Model with PSC Motor	CFM	GPM	Water Loop Heat Pump				Ground Loop Heat Pump			
			Cooling 86°F		Heating 68°F		Cooling 77°F		Heating 32°F	
			Capacity Btuh	EER Btuh / W	Capacity Btuh	COP	Capacity Btuh	EER Btuh / W	Capacity Btuh	COP
CAS-006	200	1.5	6,100	13.5	7,320	4.4	6,527	15.5	5,124	3.5
CAS-009	300	2.3	9,000	13.5	10,800	4.4	9,630	15.5	7,560	3.5
CAS-012	400	3.0	12,000	13.5	14,400	4.4	12,840	15.5	10,080	3.5
CAS-015	500	3.8	15,000	13.5	18,000	4.4	16,050	15.5	12,600	3.5
CAS-018	600	4.5	18,000	13.5	21,600	4.4	19,260	15.5	15,120	3.5
CAS-024	800	6.0	24,000	13.5	28,800	4.4	25,680	15.5	20,160	3.5
CAS-030	1000	7.5	30,000	13.5	36,000	4.4	32,100	15.5	25,200	3.5
CAS-036	1200	9.0	36,000	13.5	43,200	4.4	37,800	15.5	30,240	3.5
CAS-042	1400	10.5	40,500	13.5	48,600	4.4	42,525	15.5	34,020	3.5
CAS-048	1600	12.0	48,000	13.5	57,600	4.4	50,400	15.5	40,320	3.5
CAS-060	2000	15.0	60,000	13.5	72,000	4.4	63,000	15.5	50,400	3.5

Closetline® CAS Performance Ratings - EC Motor

Model with EC Motor	CFM	GPM	Water Loop Heat Pump				Ground Loop Heat Pump			
			Cooling 86°F		Heating 68°F		Cooling 77°F		Heating 32°F	
			Capacity Btuh	EER Btuh / W	Capacity Btuh	COP	Capacity Btuh	EER Btuh / W	Capacity Btuh	COP
CAS**006A	200	2	6,000	17.0	7,500	5.6	6,300	19.0	4,600	4.0
CAS**009A	300	2.5	9,000	14.0	11,500	4.4	9,300	15.5	7,000	3.4
CAS**012A	400	3	12,500	13.5	15,000	4.5	13,000	14.5	10,000	3.4
CAS**015A	500	3.8	15,000	17.0	18,000	5.6	15,000	19.0	12,000	4.0
CAS**018A	600	4.5	18,000	17.0	21,600	5.6	18,500	19.0	13,500	4.0
CAS**024A	800	6.0	24,000	16.4	28,000	5.2	25,000	18.5	17,000	3.7
CAS**030A	1000	7.5	30,000	16.0	34,000	5.0	30,000	17.5	23,000	3.6
CAS**036A	1200	9.0	36,000	17.0	43,000	5.0	36,000	19.0	28,000	3.6
CAS**042A	1400	10.5	42,000	15.0	49,000	4.6	43,000	17.0	33,000	3.5
CAS**048A	1600	12.0	48,000	15.0	56,000	4.6	49,000	17.0	35,000	3.5
CAS**060A	2000	15.0	58,000	15.0	72,000	4.6	59,000	17.0	49,000	3.5

Cooling based upon 80.6°F DB, 66.2°F WB entering air temperature

Heating based upon 68°F DB, 59°F WB entering air temperature



Whalen equipment has been specified in hundreds of projects in these and other categories:

- Hotels
- Senior Living Facilities
- Apartments
- Dormitories
- Condominiums
- Offices



Behind every unit that carries the Whalen name is a singularity of purpose: the engineering and manufacturing of products that improve the quality of life for our customers.

Our long-term commitment to this endeavor assures you of systems that are distinctive in **concept, performance, reliability** and **value**.

The number of industry “firsts” from Whalen is impressive. They include:

- The industry’s first vertical stack valveless fan coils
- The first vertical stack heat pump offering
- The first removable chassis closet-type heat pumps
- The first AHRI-listed water-cooled air conditioning units with hydronic heat

Let us put Whalen innovation to work for you, too. Find out how our approach to your project will deliver a “perfect fit” solution – and make your life easier.

Take the Next Step

To learn more about how The Whalen Company can help you save time and money on your next project, contact your local Whalen representative, call **410-822-9200** to speak with one of our specialists, or e-mail your request to sales@whalencompany.com.

Additional technical resources, including dimensional drawings and Revit models, are available on our website at www.whalencompany.com.

Our Mission:

*Flexible, Comfort Solutions Provided With Pride
From Our Family to You*

Your Whalen Representative:



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