



The Whalen Company

# Closetline® CAS Series

## PACKAGED WATER-TO-AIR HEAT PUMP

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.

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 a wide range of internal options, they are particularly advantageous for new construction or renovation of apartments, condominiums, hotels, senior living facilities, dormitories and office buildings.



## CLOSETLINE® BENEFITS

**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 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.

**GEOHERMAL APPLICATION:** Unit capable of operation on a closed loop or a water well installation.



# Closetline® CAS Series

## 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

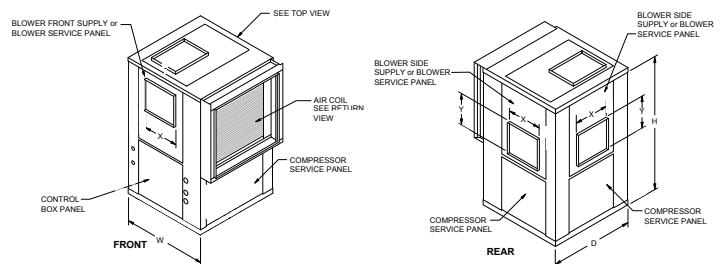
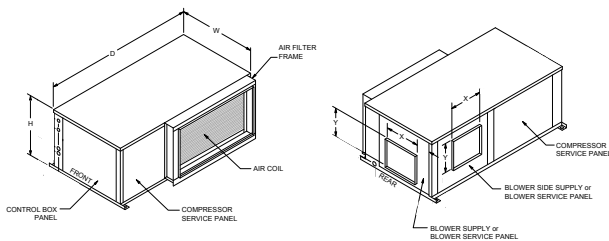
CAS-006	200	2	6,000	17.0	7,500	5.6	6,300	19.0	4,600	4.0
CAS-009	300	2.5	9,000	14.0	11,500	4.4	9,630	15.5	7,000	3.4
CAS-012	400	3	12,500	13.5	15,000	4.5	13,000	14.5	10,000	3.4
CAS-015	500	3.8	15,000	17.0	18,000	5.6	15,000	19.0	12,000	4.0
CAS-018	600	4.5	18,000	17.0	21,600	5.6	18,500	19.0	13,500	4.0
CAS-024	800	6.0	24,000	16.4	28,000	5.2	25,000	18.5	17,000	3.7
CAS-030	1000	7.5	30,000	16.0	34,000	5.0	30,000	17.5	23,000	3.6
CAS-036	1200	9.0	36,000	17.0	43,000	5.0	36,000	19.0	28,000	3.6
CAS-042	1400	10.5	42,000	15.0	49,000	4.6	43,000	17.0	33,000	3.5
CAS-048	1600	12.0	48,000	15.0	56,000	4.6	49,000	17.0	35,000	3.5
CAS-060	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.

## Closetline® CAS Dimensions

Horizontal Right Return	Overall Cabinet			Blower Discharge Supply	
	W	H	D	X	Y
Unit Sizes	Width	Height	Depth	Supply Width	Supply Height
CASH006	20.00	11.50	34.00	10.75	6.73
CASH009	20.00	11.50	34.00	10.75	6.73
CASH012	20.00	11.50	34.00	10.75	6.73
CASH015	22.00	17.00	43.00	12.00	8.48
CASH018	22.00	17.00	43.00	12.00	8.48
CASH024	22.00	17.00	45.00	13.38	9.10
CASH030	22.00	17.00	45.00	12.20	9.98
CASH036	22.00	19.00	55.00	13.30	10.35
CASH042	22.00	22.00	55.00	12.00	12.23
CASH048	25.00	22.00	55.00	12.00	12.23
CASH060	25.00	22.00	55.00	14.75	12.23

Vertical Right Return	Overall Cabinet			Blower Discharge Supply	
	W	D	H	X	Y
Unit Sizes	Width	Depth	Height	Supply Width	Supply Height
CASH006	19.00	19.00	24.00	10.75	6.73
CASH009	19.00	19.00	24.00	10.75	6.73
CASH012	19.00	19.00	24.00	10.75	6.73
CASH015	22.00	22.00	36.00	12.00	8.48
CASH018	22.00	22.00	36.00	12.00	8.48
CASH024	22.00	22.00	40.00	10.25	12.23
CASH030	25.00	26.00	40.00	11.00	11.10
CASH036	25.00	26.00	45.00	11.38	12.35
CASH042	25.00	26.00	45.00	12.00	12.23
CASH048	25.00	32.00	45.00	12.00	12.23
CASH060	25.00	32.00	45.00	12.50	14.41



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