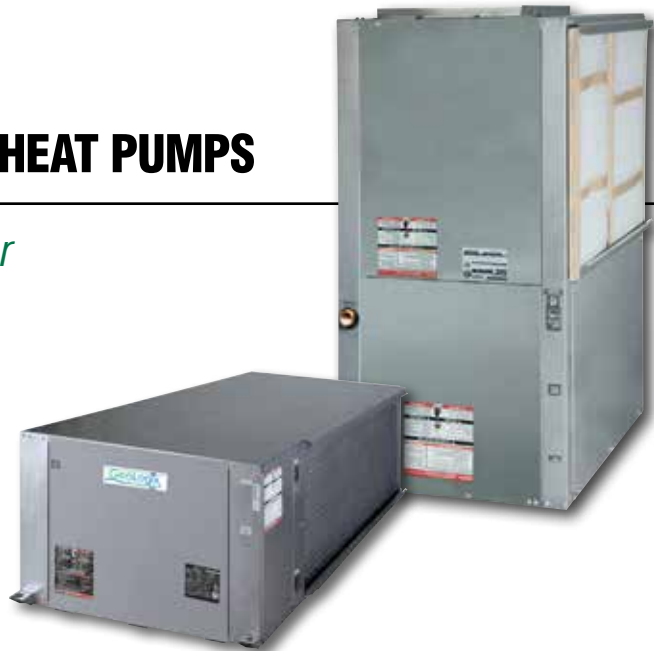




## **COMMERCIAL WATER SOURCE HEAT PUMPS**

*Energy efficient heating and cooling for commercial applications*



**CHOOSE RELIABILITY  
AND EFFICIENCY.**

# COMMERCIAL WATER SOURCE HEAT PUMPS

## Energy-Saving Heating & Cooling Units for Replacements and New Construction

Century commercial water source heat pumps are ideal for improving the efficiency of older buildings and also as part of the design of sustainable structures. Because our water source systems use less energy, they lessen the economic and environmental impact of heating and cooling compared to HVAC systems powered solely by fossil fuels.

Multiple package models connected by a water loop are ideal for zoned heating and cooling in such facilities as schools, nursing homes, and condominiums—offering superior comfort and energy control throughout the building. Large capacity models are designed to condition single expansive spaces.

An extensive range of models, capacities and voltages means there's a model to meet the demands of designer, contractor and building owner—a great choice for new construction and retrofits, as well as replacements! With an innovative cabinet design, there are units to fit just about any existing location and multiple access panels make installation easy, even in tight spots.

### HB COMPACT Series

*1/2 to 5 Tons, designed specifically for water loop, boiler/cooling tower applications, they provide effective zone control for comfort and efficiency; can also be used in ground loop installations.*

### HKV and HB LARGE Series

*6 to 25 tons, for large spaces such as gyms and commons areas; units can be used in water loop, ground water or ground loop installations, depending on the type of facility and the available land or source of water.*

*All Century WSHPs are rated in accordance with AHRI/ASHRAE/ISO 13256-1*

*Office buildings are among the many structures that can benefit from the independently controlled comfort and low operating costs of an interconnected water loop system.*

## Glossary of Terms

**Water Loop**—Commercial water source installation in which a water loop connects all the individual, independently controlled units in the building, with excess heat energy rejected through a cooling tower and additional heat energy added by a boiler installed in the loop

**Ground Loop**—Geothermal system with heat transfer liquid permanently sealed in piping buried in the ground or submerged in a pond or lake (also called “Closed Loop”)

**Ground Water**—Geothermal system in which water is pulled from an aquifer and used for heat transfer, then released to another well, a ditch or other water source (also called “Open Loop”)

**R-410A**—The environmentally friendly refrigerant now used in all our HVAC equipment



## COMPACT COMMERCIAL “HBH/HBV” Series



Individual package units designed specifically for boiler/cooling tower applications, these highly efficient models allow for comfortable heating or cooling in separate zones at the same time. Each unit can be operated year ‘round in heating or cooling mode, and each is independently controlled.

### Features

- **ECM Available**—On models 015-060 models
- **Quiet Operation**—Sound absorbing glass fiber insulation, plus insulated divider to separate compressor and air handler compartments dampens sound
- **Performance Sentinel System**—Monitors the operation and signals a potential problem so maintenance can be scheduled before a lockout occurs
- **Heavy Duty Compressors**—Copeland scroll compressors on -024 and larger models; rotary compressors on -018 and smaller models
- **Compact Size**—With some of the smallest cabinet sizes in the industry, units are designed to be compatible with thousands of older water source heat pumps
- **Optional Extended Range Refrigerant Circuit**—Capable of ground loop as well as water loop installation for flexibility
- **Optional Waterside Economizer**—On 006-060 models

## LARGE COMMERCIAL “HKV” and “HBH/HBV” Series



Individual package units designed specifically for boiler/cooling tower applications, these highly efficient models allow for comfortable heating or cooling in separate zones at the same time. Each unit can be operated year ‘round in heating or cooling mode, and each is independently controlled.

### Features

- **Quiet Operation**—Insulated divider separates compressor and air handler compartments, and double isolate compressor mounting minimizes noise
- **Microprocessor Controls**—Provides reliability and ease in controlling temperature and operation
- **Performance Sentinel System**—Monitors the operation and signals a potential problem before a lockout occurs
- **Heavy Duty Compressors**—Copeland scroll compressors for efficiency and long life
- **Easy Installation**—Multiple access panels simplify installation, especially in tight spots; HBH includes installed hanging brackets
- **Dual Circuits**—HKV168A to 300A units have two refrigerant circuits and dual scroll compressors which can operate independently; all HB Large models have dual refrigerant circuits
- **Optional Waterside Economizer**— On HBH072-HBH120

#### Available voltages:

All models are available in 208/230-3-60, 460-3-60, or 575-3-60. See the Engineering Design Guide or Price Book for a complete part number list. Available in front or back return, and front, back or top supply.

**For more information please see  
the specification sheet for each model.**



At Century, we're in the business of making you comfortable while saving energy. We offer a broad range of products that are efficient and reliable for home, school, office, work and institutional settings. All meet or exceed industry standards for energy efficiency, and are built for durability.

We've been in the comfort business since our founding in 1933, and our roots go back even further. We can trace our beginnings to the Wingert Furnace Co. which began building coal, gas and oil furnaces in 1907. We moved to new headquarters in Jackson, Michigan, in 1955, and this facility has been expanded many times to accommodate our growth.

Geothermal and water source heat pumps are among our fastest growing product groups, largely due to the exceptional energy savings they offer as well as the level of comfort they deliver.

This brochure shows the full range of our equipment for commercial installations. It also explains how water source installations can make your facility comfortable year 'round, and do it economically.

For complete specifications, as well as all available options for customizing your water source heat pump, see the Design Engineering Guides on our web site.

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.