
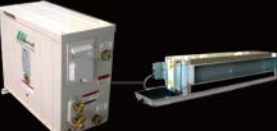















Product			
			
Water Source Heat Pump (Packaged Type )	Water Source Heat Pump ( Split Type)	Water-to-Water Water Source Heat Pump	Water Cooled Screw Chiller Units
			
Water Source Heat Pump Units	Air-to-Water Heat Pump Units	High Static Pressure Air-Duct Units	FANWALL
			
Fresh Air Energy Recovery Units	Air-Cooled Screw Chiller&Heat Pump Units	VAV	Precision Air Control Units
			
Multi-split Air-to-Air Heat Pump Units	Fan Coil Units	Suspended Compact Air Handling Units	Modular Air-To-Water Heat Pump



ISO9001



# Mammoth Group

The Leader in Custom HVAC & Energy Saving



Since 1935, Mammoth has been producing and installing air conditioning units with the most innovative technologies. Our solutions are found in some of the world's most important buildings for its unparalleled flexibility and efficiency. When performance and energy efficiency are important factors to a project, our products are often chosen as the final solution.

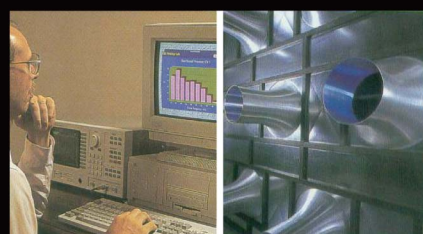


### Established in Minneapolis, USA - 1935



Since 1988, Mammoth has been providing energy saving products to projects in China. In 2002, Mammoth invested US\$10 million to establish its manufacturing facility in Anji, China's #1 Ecological County, and its national sales headquarter in Shanghai to provide custom engineered air conditioning systems for projects in China and abroad.

### Energy Saving & Innovation



Mammoth produces air conditioning equipment that leverages energy saving and innovative technologies. Our products include, but not limited to, geothermal & water source heat pumps, air & water cooled commercial air conditioning units, fan coils, AHU, VAV box, screw chillers, and energy recovery units.

### Customization & Energy Saving is Our Standard



Mammoth has been recognized as a leader in providing custom designed Total Energy Solution HVAC Systems. Our solutions can fit any design applications from WSHP systems to geothermal systems, from hybrid systems to various energy saving systems. Based on the needs of our customers, our recommendations help our customers assess the economic benefits of Mammoth solutions over alternative systems.

### Outstanding Achievement



Mammoth has also brought its innovative design concepts to the industry. We have printed numerous technical design manuals and books to facilitate engineers in the design of Renewable Energy HVAC Systems. Together with industry associations and the commercial section of the US Embassy and Consulate General Offices, we have frequently conducted technical seminars in major cities in China and abroad. We have supplied our solutions to projects that amount to almost 10 million sq. m., and have been continuously recognized as the leader in Renewable Energy products in China.

南京国际广场  
Nanjing Int'l Centre

汉中南邦时代广场  
Hanzhong Wanbang Times Square

中国人民解放军军事经济学院图书馆

北京山水文园E区  
Beijing Landscape Garden E

民航华北局山西办公楼

杭州世贸丽晶城EAC欧美中心

世茂佘山别墅  
Shanghai SheShan Villa

全球迪士尼乐园  
Worldwide Disneyland Resorts

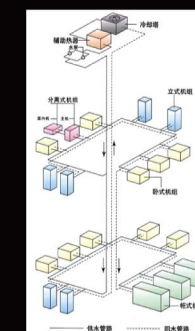
## Water Source Heat Pump System "WSHP" (Water Loop Heat Pump System "WLHP" )



WSHP(WLHP) system is a central heating and air conditioning system comprising of efficient split/package reverse cycle heat pump units interconnected by a water loop. Each unit satisfies the air comfort requirements of the particular zone in which it is installed. WSHP(WLHP) closed loop systems are simple by design and is the most efficient HAVC systems available. Water source systems recover otherwise wasted energy in some zones and better utilizes it in other zones, balancing the heating and cooling requirements of the entire project.

WSHP(WLHP) systems advantages:

- Save energy (lower operating cost by 15~50%)
- Lower installation cost;
- Provide zoning flexibility, individual heat pump unit can be turn off when unoccupied;
- Provide heating and cooling any time of the year though 2 pipe water loop;
- Provide individual metering;
- Lower maintenance cost;
- Save mechanical space
- Provide flexibility of initial capital investments in different phases

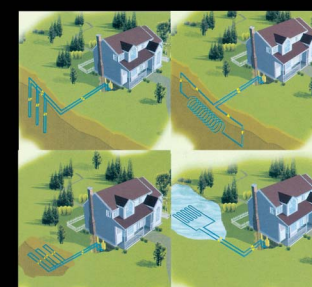


## Ground Source Heat Pump System

Mammoth has long experience supplying water-source/ground source heat pumps (WSHPs) and commercial products for building comfort systems, ranging from multi-unit residential to the largest commercial networks. The water-source/ground-source heat pump is an ideal renewable energy system to perform both heating and cooling, sometimes both simultaneously using a building water loop or earth loop as both a heat source and heat sink. Our heat pumps can easily integrate with your boiler and tower systems, or can be installed in geothermal configurations. Mammoth can provide total energy solution systems to meet specific 1/2-150 tons in horizontal, vertical, split and is a CES Group™ heating, cooling, and building control requirements. Available company with global manufacturing facilities including China to serve all your needs. This affiliation extends Mammoth's marketing research and provides us with a wealth of additional engineering and application expertise.



Geothermal underground loop system uses the earth's constant temperature to exchange energy between the earth and your building. Energy is collected through pipes installed in the ground called loops. There are several loop configurations vertical, horizontal, or submerged in pond or lake. The configuration of your property will



determine the type of loop system to use for your project. Heat is extracted from the earth into water that is circulating in the loop system. The heat is then used by the heat exchanger and compressor to warm the air and to produce hot water. In summer the process is reversed. Hot air from the building is transferred to the cooler earth using the loop system. Geothermal system is being used in many commercial facilities including hospitals, schools, recreation centers, office buildings and other commercial facilities.