



COGENERATION SYSTEMS WITH ABSORPTION CHILLERS



Shuangliang absorption chillers. Steam, gas fired and heat pumps are available.

Fluid Cooling Systems (FCS) specializes in working with manufacturers and developers of energy systems that involve power generation.

In these systems, waste heat from the exhaust of the generators is captured and utilized as a heat source for large absorption machines. These absorption machines produce chilled water and hot water that can be used within a facility.

FCS's role is to provide the fluid handling infrastructure for these systems. This includes designing and implementing the necessary piping systems and equipment to facilitate the transfer and distribution of fluids such as chilled water, hot water, and condenser water.

Depending on the specific needs of the customer, the cooling systems implemented by FCS can utilize electric chillers, absorption chillers, or a combination of both. The choice of chiller type depends on factors such as energy efficiency, cooling capacity, and overall system requirements.

To accommodate the equipment and machinery involved in these energy systems, FCS offers fabricated enclosures and skidded systems. These systems are designed to meet the specific dimensions and requirements of absorption chillers and other related equipment, ensuring that the infrastructure is tailored to the needs of the energy system being developed.

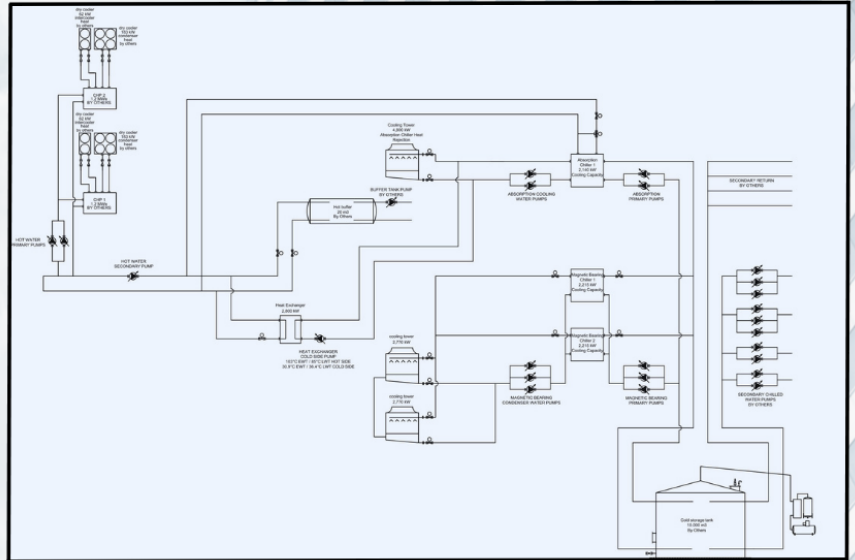


Overall, FCS plays a crucial role in providing the necessary fluid handling infrastructure for energy systems that incorporate power generation and waste heat recovery, enabling efficient and effective utilization of waste heat for chilled water and hot water production.

ABSORPTION

Absorption chillers are cooling systems that use a heat source, such as steam or hot water, to drive the refrigeration process.

They are commonly used in industrial, commercial, and large-scale HVAC (heating, ventilation, and air conditioning) applications.



Some of the best applications for absorption chillers include:

Large Commercial Buildings: Absorption chillers are often used in large commercial buildings, such as shopping malls, hotels, hospitals, and office complexes. They provide efficient cooling while utilizing waste heat from other processes, such as power generation or industrial operations.

Industrial Processes: Absorption chillers can be integrated into various industrial processes where waste heat is available. Industries such as chemical, pharmaceutical, food, and beverage manufacturing can benefit from using absorption chillers to recover waste heat and provide cooling for their processes.

District Cooling Systems: Absorption chillers are well-suited for district cooling systems, which provide centralized cooling to systems as small as multiple buildings or as large as an entire neighborhood. They can be combined with cogeneration plants or waste heat sources to create a more energy-efficient and sustainable cooling solution.

Data Centers: Data centers require significant cooling capacity to maintain optimal operating temperatures for their servers. Absorption chillers can be used to provide cooling in data centers, especially in scenarios where waste heat from the data center equipment or adjacent processes can be utilized effectively.

Solar Cooling: Absorption chillers can be coupled with solar thermal systems to provide cooling using renewable energy sources. This application is particularly beneficial in regions with ample sunlight, where solar cooling can reduce the dependency on conventional electricity and lower carbon emissions.

Universities and Research Facilities: Institutions with large campuses and research facilities can implement absorption chillers to meet their cooling needs. By utilizing waste heat from cogeneration plants or laboratory processes, these institutions can achieve energy savings and promote sustainability.



www.fluidcoolingsystems.com / 2441 E. Bristol Rd, Burton, MI 48529

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(888) 315-5631 / (888) 423-1914



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