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Here a recently developed absorption chiller is now used instead of a former adsorption chiller. With the new absorption chiller and the control strategy the seasonal energy efficiency ratio SEER is above 0.75, electric efficiency is 35% higher and water consumption is reduced by

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Typically the cooling capacity of absorption chillers is controlled by adjusting the driving hot water

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temperature according to the load.  
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strategy a seasonal energy efficiency ratio SEER above 0.75 is achieved. In addition the replacement of the adsorption chiller results in a 35% higher electric efficiency and a reduction of about 70% of the costs for spray water consumption in the reject heat device.

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Capacity control of HVAC chillers is very logical and required to save the input energy at low or part-load on chillers. Chillers providing absorption



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cooling use different types of input energy. Absorption chillers are generally controlled from input energy being provided to generator (single effect absorption chillers) or high pressure generator (double effect absorption chillers).

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35% higher electric efficiency and a reduction of about 70% of the costs for spray water consumption in the reject heat device

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YHAU CL/CH Single Stage For Hot Water Driven Absorption Chiller. The YHAU-CL/CH hot water absorption chiller provides efficiency and reliability through the use of innovative technology. 105-6153 kW cooling capacity. Single effect hot water up to 160 ° C. Ideal for comfort or industrial

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Absorption Chillers | Johnson  
Controls

This comparison assumes that both a centrifugal and an absorption chiller are working at design conditions with

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their respective COPs. Also, it assumes the natural gas cost is fixed at \$4/MMBTU ...

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The New Era of Absorption Chillers |  
Power Engineering  
One of the most significant changes in

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new chiller design is the control system. Gone are the electro-mechanical systems of the past.

Today's chiller control systems are almost exclusively microprocessor-based electronic controls.

Microprocessor-based controls offer five major advantages over older

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Chillers and Control Systems -  
Yorkland Controls Ltd

An interesting point to note about  
absorption chillers is that they don't  
use conventional refrigerants. Instead



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they use water as the refrigerant, and this is mixed with either ammonia or Lithium Bromide. Lithium Bromide is more common because it is safer and non toxic, so we ' ll look at how the water Lithium Bromide type chillers work. You can learn more about how refrigerants work and watch a video

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on the subject here. Essential  
knowledge

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Absorption Chiller, How it works - The  
Engineering Mindset  
Absorption chillers are either lithium  
bromide-water (LiBr/H<sub>2</sub>O) or

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ammonia-water equipment. The  
LiBr/H<sub>2</sub>O system uses lithium  
bromide as the absorber and water as  
the refrigerant. The ammonia-water  
system uses water as the absorber  
and ammonia as the refrigerant. I will  
concentrate on the LiBr/H<sub>2</sub>O chiller  
for this article.

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Phönix-absorption chiller- refrigerant

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the comparison were an industry-  
average, 1,000-ton electric centrifugal  
chiller with variable speed drive and

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absorption chillers of three different  
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Chillers. Air-Cooled Chillers; Water-  
Cooled Chillers; Chiller Controllers;  
Heat Pumps. Air-to-water Heat Pumps;  
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pipe units 50-880 kW; Sintesis™  
Balance CMAF multi-pipe units  
280-680 kW; Condensing Units. RAUL  
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Rooftops. Airfinity™ 20-135 kW ...

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There are millions of people around the world who use Dometic products. You all have one thing in common. You ' re going somewhere – whether you ' re a motorhome user, a boat owner, a truck driver or just a lover of the great outdoors.

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