Lithium bromide absorption solar air conditioning

Air-cooled LiBr-water absorption chillers/coolers have been analyzed, designed, and prototype-tested since at least the mid-1970s, primarily in Japan, the U.S., and Europe, for solar- and direct-fired ...

Experimental evaluation of a direct air-cooled lithium bromide-water absorption prototype for solar air conditioning, Applied Thermal Engineering (2011), doi: 10.1016/j.applthermaleng.2011.06.019 This is ...

The aim of this study is to design a lithium bromide-water (LiBr-H2O) absorption cooling system with a rated capacity of about 1 kW of solar-powered cooling using lithium bromide as...

When powered by flat plate collector, the water is taken as refrigerant and Lithium Bromide (LiBr) as absorbent. Since the system is generally applicable for air conditioning purposes [2], the evaporator ...

The main objective of this study is to assess the performance of solar Llthlum-Bromlde-H O absorption air conditioning system for a conference hall under hot climate conditions.

Abstract A new direct air-cooled single-effect LiBr-H 2 O absorption prototype is described and proposed for use in solar cooling.

In this regard, this study focuses on solar cooling technology as an alternative to conventional air conditioning systems, which consume a significant amount of electricity. A ...

Abstract-- This paper reviews past efforts in this field of solar operated air-conditioning systems using the absorption pair of lithium bromide/water. A number of attempts have been made by researchers ...