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Department of ERAC NTUT



PhD: Mechanical Engineering, UC Berkeley
Research: HVAC & Refrigeration equip R&D, Energy engineering, Thermal engineering

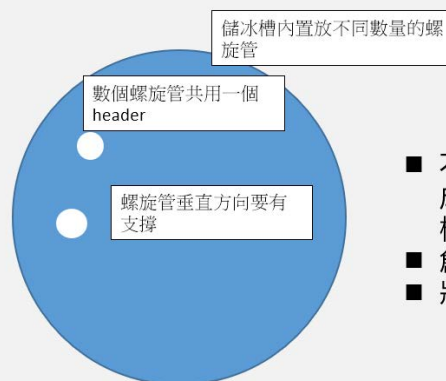
- **Research item: Spiral coils external discharge ice storage system**
- **Targets:**
 - (1) **To build a 60RT-hr ice storage system**
 - (2) **Direct refrigerant ice making, eliminate ice storage and secondary refrigerant pumps**
 - (3) **High efficient external discharge**
 - (4) **Made of independent spiral coils for low cost mass production.**
 - (5) **Applications in renewable energy and power demand control of Taipower**

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大小儲冰槽有不同數量的螺旋管



- 不同數量螺旋管組成不同容量的儲冰槽
- 創新設計易於量產
- 將申請專利

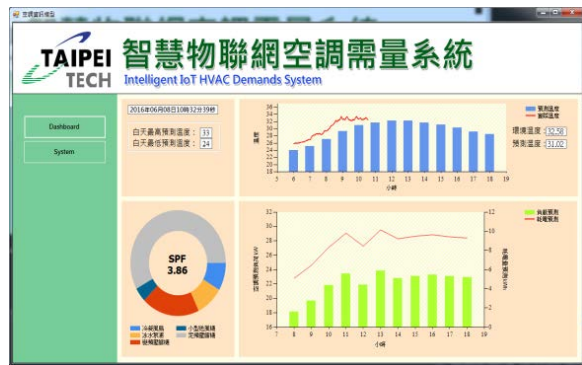


Spiral coils external discharge ice storage system

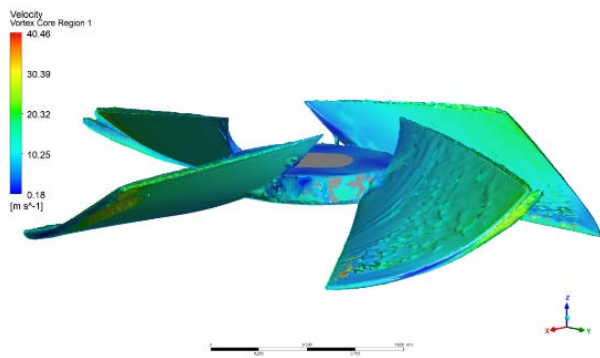
Relevant research



High IPLV and high COP double loop variable speed water chiller



BACnet protocol energy management system with panel type energy information



Improved airfoil blade design to alleviate the energy efficiency and reduce noise level for a 3 m diameter cooling tower fan



Water chiller with integrated cooling tower



Integrated dedicated outdoor air handling system



Smart linkage control of window shade and lighting for energy saving