

# SlurryICE APPLICATIONS



Slurry-ICE is a crystallised water-based ice solution which can be pumped, hence, it is also called "Liquid-ICE" or "Pumpable-ICE". It has potential usage as a secondary cooling medium for thermal energy storage while remaining fluid enough to pump.

Slurry-ICE is a versatile cooling medium. Its handling characteristics, as well as its cooling capacities, can be matched to suit any application by means of simply adjusting the percentage of ice concentration.

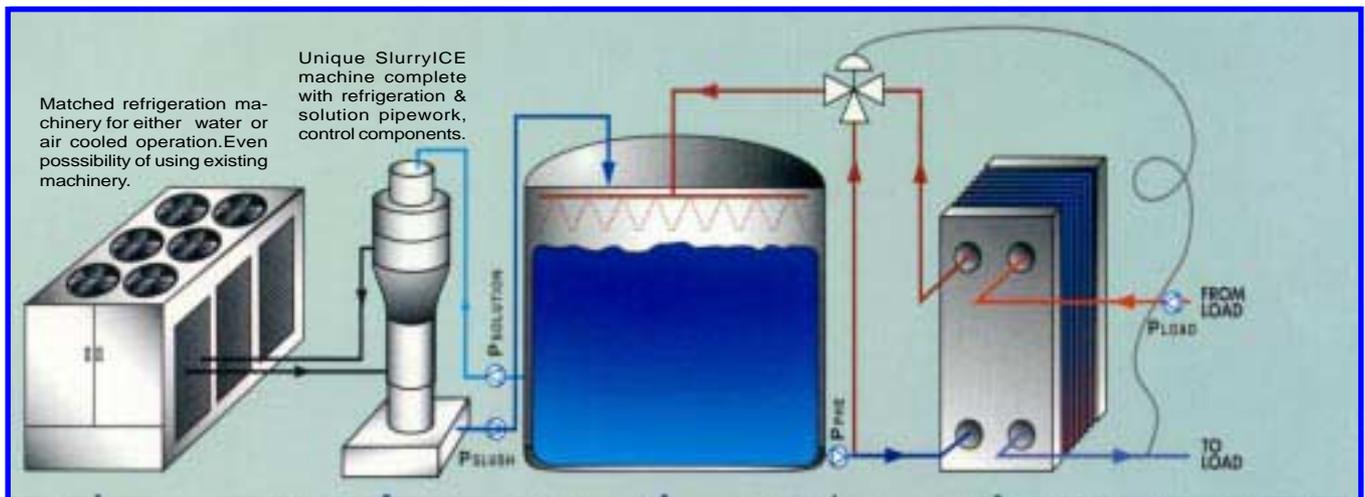


At 20-25% ice concentration, Slurry-ICE flows like conventional chilled water whilst providing 5 times the cooling capacity. At higher ice concentrations, it still demonstrates pumpable characteristics.

## **THE MOST EFFICIENT THERMAL ENERGY STORAGE**

Slurry-ICE provides a "Dynamic" ice storage system to produce and store cooling energy during off-peak hours - usually at night - when utility rates and ambient temperatures are lower. The stored energy is then used during peak demand periods.

Thermal energy storage systems can reduce the refrigeration equipment used in conventional cooling systems and offer lower running costs. The pumpable characteristics of Slurry-ICE offer reduced pumping energy, smaller pipe sizes and the most economical capacity and duty balancing for any given application.



## **FLEXIBLE ICE STORAGE**

The storage tank can be placed under, beside, inside, or on top of a building and can be in any shape or size to match the building and architectural requirements.

## **QUICK RESPONSE**

Slurry-ICE is made up of microscopic ice crystals which prevent ice bridging and ice insulation effect. The total surface area for heat exchanging is very large in comparison with that of a conventional ice storage system and therefore Slurry-ICE melts instantly to meet varying cooling loads providing steady system leaving temperatures.

## **TECHNICAL SUPPORT**

EPS offers a technical application guide and computerised Slurry-Ice pipe sizing programme. Full refrigeration design support to assist in proper selection and integration into existing or new installations are available as part of our customer commitment. Please consult our technical sales team at [sales@epsitd.co.uk](mailto:sales@epsitd.co.uk) for your specific application or visit our web site [www.epsitd.co.uk](http://www.epsitd.co.uk).

## **EFFICIENT SYSTEM**

Ice production is continuous, i.e. layer-free. This offers unmatched ice efficiency which, together with smaller pump sizes, results in reduced running cost.

## **COST EFFECTIVE INSTALLATION**

Smaller pipework, flexible storage tank coupled with smaller pump sizes result in lower initial installation cost.

## **EASY RETROFIT**

Ice machines can be applied for any expansion or retrofit application utilising the existing refrigeration machinery with minimal modification.



Unit 32, Mere View Industrial Estate, Yaxley, Cambridgeshire, PE7 3HS, UNITED KINGDOM  
Tel. :+44-(0)1733-243400  
Fax.:+44-(0)1733-243344