SIURTYICE PROCESS COOLING APPLICATIONS Slurry-ICE is a crystallised water-based ice solution which can be pumped and offers a secondary cooling medium for thermal energy storage while remaining fluid enough to pump. It flows like conventional chilled water whilst providing $5 \sim 6$ times the cooling capacity.

CASE STUDY ;

Installed system consists of a 10 kW (3TR) remote condenser SlurryICE machine and an associated 6 m3 ice storage tank to satisfy a peak load of 20 kW. Ice machine is designed to operate until the tank is full. The energy stored over off-peak / low load periods is later utilised to satisfy the peak loads. Hence, the installed refrigeration machinery is 1/2 of an equivalent capacity of a conventional



Water Buffer

Tank



GREEN SOLUTION

Reduced refrigeration machinery leads to reduced refrigerant volume.

FLEXIBLE SYSTEM

Any future capacity or change of operational patterns can be easly handled without the need for additional refrigeration machinery.

FULL STAND-BY CAPABILITY

The stored energy can be used to operate the process in case of break down or regular maintenance shut downs.

TECHNICAL SUPPORT www.epsltd.co.uk

REDUCED RUNNING COST

Reduced refrigeration machinery results in

reduced maximum demand and availability

charges coupled with night time low ambient

and off-peak electricity prices offers

unmatched overall running cost savings

QUICK RESPONSE

Fine ice crystals offers unmatched heat transfer

efficiency. Hence, large peak loads can be

handled without effecting the system leaving

temperatures.

E-3 MaximICE Machine

PS offers full system design support to assist in proper selection and integration into existing or new installations as part of our customer commitment. Please consult our technical sales team for your specific application.



Unit 32 Mere View Industrial Estate, Yaxley, Cambridgeshire, E7 3HS. UNITED KINGDOM Р Tel. :+44-(0)1733-243400 Fax .: +44-(0)1733-243344



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Main Water

Ring

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