

# Packaged SlurryICE Machines

## SIMPLICITY;

MaximICE liquid ice generators built in a skid concept whereby all the necessary refrigeration machinery, solution/ slush pump and associated pipework as well as the necessary control / starter units are incorporated.

EPS standard modular MaximICE package units offer the simplicity of a plug and play facility. A wide capacity range can be achieved by increasing the number of standard ice generators for an efficient and cost effective solution.

## GREEN OPTION;

Load shifting enables the designers to reduce the refrigeration machinery size and the use of Environmentally Friendly primary refrigerants offers a long term green solution.



ORE-9 Packages

MaximICE MODEL				
DATA	ORE-4.5	ORE-9	ORE-13	ORE-18
Nominal Capacity (kW)	15	30	45	60
No of Compressors	1	1	1	1
Type	Semi-Hermetic	Semi-Hermetic	Semi-Hermetic	Semi-Hermetic
Capacity Control Steps (Optional)	1	2	3	4
No of Drive motors	1	2	3	4
Drive Motor (kW)	0.12	2 x 0.12	3 x 0.12	4 x 0.12
Speed	890	890	890	890
Control Supply (1)	220-240 Volts / 1 Phase / 50Hz			
Power Supply (1)	380-415 Volts / 3 Phase / 50 Hz			
<b>R22 Unit (2)</b>				
Full Load amps	15.38	33.40	43.40	62.10
Starting amps	55.80	140.00	185.00	263.00
<b>R134a Unit (2)</b>				
Full Load amps	14.08	29.00	41.30	55.30
Starting amps	86.10	172.00	263.00	366.00
<b>Refrigerant Charge</b>				
R22 (kg)	17	30	44	58
Oil Charge (lt.)	3.7	4.5	4.5	7.5
R134a (kg)	10	33	22	64
Oil Charge (lt.)	3.7	4.5	7.5	8.0
<b>R22 Unit (2)</b>				
Shipping Weight (kg)	898	917	977	1036
Working Weight (kg)	928	963	1042	1127
<b>R134a Unit (2)</b>				
Shipping Weight (kg)	903	1053	1116	1232
Working Weight (kg)	925	1101	1159	1330
<b>Dimensions</b>				
Length (mm)	1815	2200	2587	2975
Width (mm)	1150	1150	1150	1150
Height (mm)	2000	2000	2000	2000
<b>GLYCOL CIRCUIT</b>				
Slush Outlet	DN32	DN40	DN50	DN65
Solution Inlet	DN32	DN40	DN50	DN65
Solution Charge (kg)	12	16	21	33
<b>A/C REFRIGERANT CIRCUIT</b>				
Condenser Liquid Return	7/8"	1 1/8"	1 3/8"	1 3/8"
Delivery Line	1 1/8"	1 3/8"	1 3/8"	1 5/8"
<b>W/C CONDENSER CIRCUIT (3)</b>				
Flow	1"	1"	1 1/4"	1 1/4"
Return	1"	1"	1 1/4"	1 1/4"
Nominal Flow Rate (Lt./s)	0.53	0.98	1.4	2.1
Nominal Pressure Drop (kPa)	53	37	63	35

(1) 60 Hz and other per supply consult our factory.

(2) Other type of refrigerants consult factory

(3) Optional Factory fitted Water Cooled Package unit can be supplied for remote cooling tower / dry cooler options.

## FIELD INSTALLED ACCESORIES

Water Cooled Condenser field installation kit.

Head pressure controller for remote air cooled condenser.

SlurryICE storage tanks and associated controllers.

SlurryICE Heat Exchangers to match the system loads.

Matching circulation pump kits.

Standard Glycol and alternative freeze depressant solutions.

## TECHNICAL SUPPORT;

EPS offers a technical application guide and computerised SlurryICE 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@epsLtd.co.uk](mailto:sales@epsLtd.co.uk) for your specific application or visit our web site [www.epsLtd.co.uk](http://www.epsLtd.co.uk)

## FEATURES

Reduced refrigerant charge.

Higher operational efficiency.

State of the art PCB control system.

Overload / over temperature and freeze protections.

Fully automated refrigeration and solution control.

Factory fitted refrigeration and solution pipework ready to operate.

Proven reciprocating compressor technology.

Fully unloaded start facility.

## OPTIONAL ACCESSORIES

Full BMS compatibility.

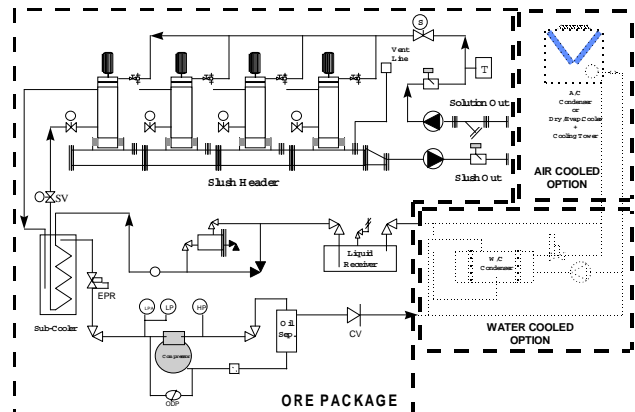
Water Cooled factory fitted condensing package.

Matching Air Cooled Condenser complete with head pressure control function.

Weather Housing

Alternative power supplies.

Alternative primary / secondary refrigerants.



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## ADVANTAGES

### HIGHER ENERGY EFFICIENCY

Unlike static ice systems where ice adheres to the heat transfer surface, ice slurry produced by the ice generator does not adhere to any heat transfer surface, resulting in higher energy efficiency.

Unlike ice harvesters, defrost is not required to harvest the ice for storage in tanks, resulting in higher energy efficiency.

### COST-EFFECTIVE TANK DESIGN

Ice slurry can be pumped into storage tanks, reducing the need for extra structural support required for ice harvesters located above the storage tanks.

### COMPACT EQUIPMENT

Small evaporator footprint offers space savings in the refrigeration equipment room.

### LOWER SUPPLY TEMPERATURE

System offers lower supply water temperature versus other ice systems.

### FLEXIBLE ICE STORAGE TANK DESIGN

Ice slurry can be stored in tanks of any shape. For example, the height of a storage tank can be increased, resulting in a reduction of the tank footprint which leads to valuable floor space saving. This is difficult to achieve in static or other dynamic ice storage systems.

### MAINTENANCE FREE ICE TANK DESIGN

Unlike ice on coil systems, ice slurry systems do not require miles of pipe or tubing in the storage tanks. This eliminates the need for repairing leaking pipes or tubing inside the tank.

### SATISFIES LARGE LOADS

Large loads for short durations can be met by ice slurry systems due to the quick melting of ice which is achieved by a large area of contact between the warm return solution and stored ice.

### EASE OF MODIFICATION

System can be easily adapted to changing needs. For example, facility expansion may occur and facility use and/or utility rates may change

MODEL	CAPACITY in kW (Tons)
ORE-3	11 (3)
ORE-4.5	15 (4.5)
ORE-9	30 (9)
ORE-13	45 (13)
ORE-18	60 (18)
ORE-25	53 to 116 (15 to 33)
ORE-50	123 to 229 (35 to 65)
ORE-100	246 to 457 (70 to 130)
ORE-200	492 to 914 (140 to 260)
ORE-300	932 to 1372 (265 to 390)
ORE-400	1407 to 1829 (400 to 520)

## APPLICATIONS

### Comfort Cooling

Office Buildings  
Hotels  
Churches  
Schools  
Auditoriums  
Sports Arenas

### Process Equipment Cooling

Food Processing  
Dairies  
Breweries

### District Cooling

### Gas Turbine Inlet Cooling



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