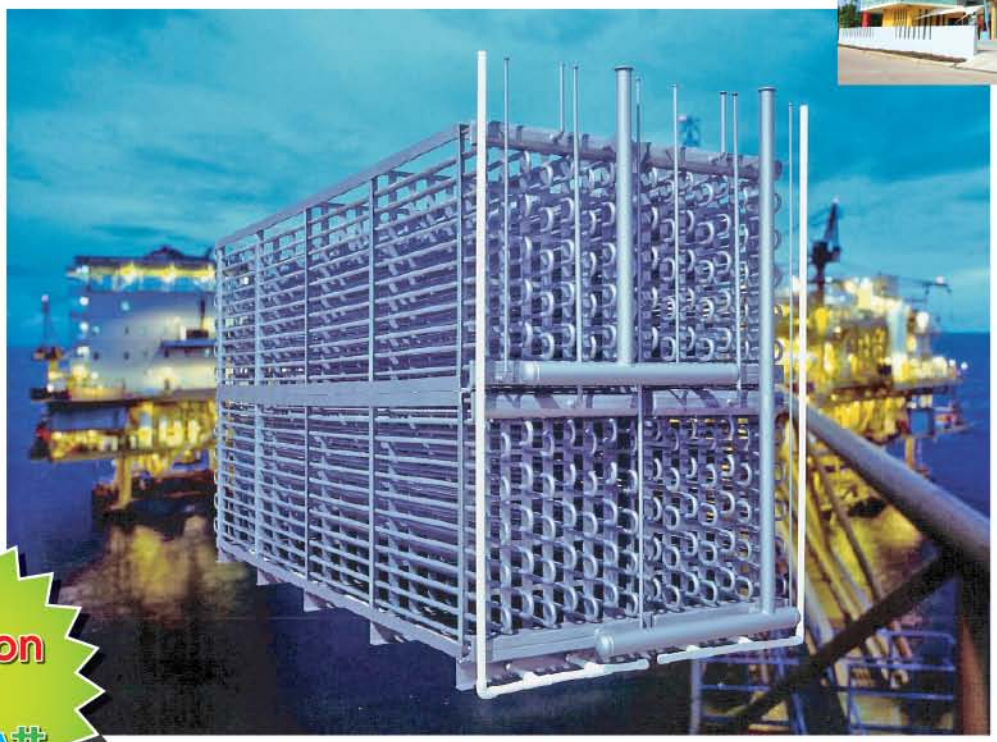
Cooling BAtt by itc

The Economical
Ice Bank Storage



Cool Innovation CO_2 Cooling BAtt by itc

Newest innovation, CO_2 thermal ice storage system, design to utilize Carbon Dioxide (CO_2) which is GWP base line as a main refrigerant for the air conditioning system in conjunction with other refrigerants and combined with the latent heat storage technology of Cooling BAtt, which generates cooling in night-time and stored cooling energy be used in daytime. This technology with total system design C.O.P. can help to reduce electricity consumption, save electricity pay bill and high environmental friendliness.

Many people may wonder what makes it so economical. The simple answer is ITC's Ice Bank is highly specialized equipment designed for generating tons of ice clinging along the coil in the night-time that surround is cold enough to decrease condensing temperature, this will lower energy and power consumed by compressor which is the highest energy consumption in refrigeration cycle and also lower the heat rejected quantity. You can save more by run only the water pump or less set of evaporative condenser since the temperature of air and circulate water flows through the evaporative condenser is lower than daytime.

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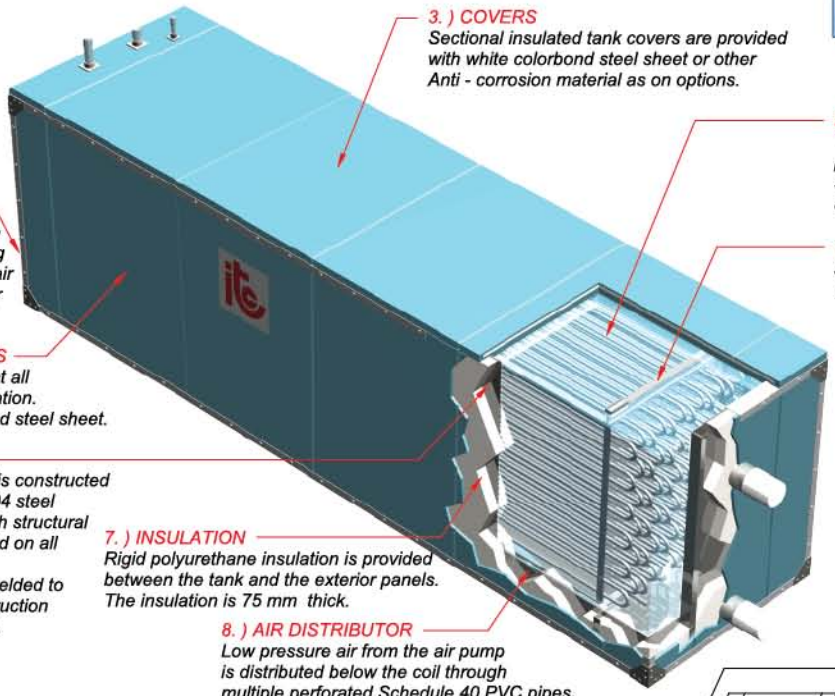


3.) COVERS
Sectional insulated tank covers are provided with white colorbond steel sheet or other Anti - corrosion material as on options.

2.) COIL
The coil is constructed of multiple prime surface serpentine AISI - 304 stainless steel circuits and is tested at 24 bars air pressure under water.

1.) ICE THICKNESS CONTROLLER
An electronic, adjustable ice thickness control is mounted on the unit.

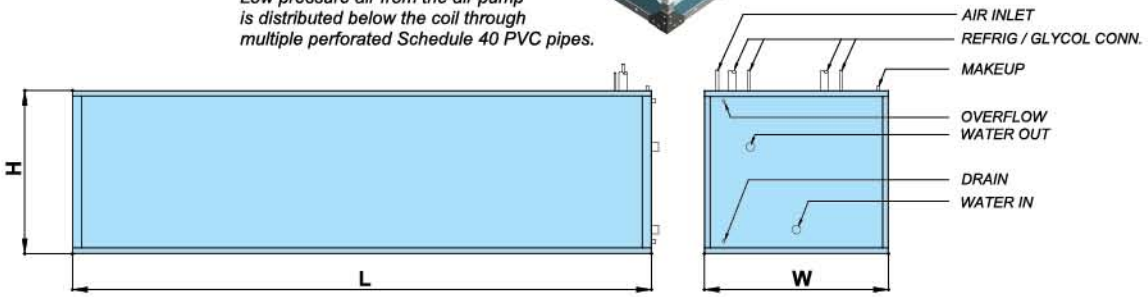
4.) AIR PUMP
Centrifugal regenerative blower for field mounting to supply low pressure air for agitation of the water for better melt out rate.

5.) EXTERIOR PANELS
Exterior panels sealed at all seams protect the insulation. They are white colorbond steel sheet.

6.) TANK
The internal of the tank is constructed of heavy gauge, AISI-304 steel reinforced with full-length structural steel angles beneath and on all four sides.
All internal seams are welded to ensure watertight construction and longer servicing life.

7.) INSULATION
Rigid polyurethane insulation is provided between the tank and the exterior panels. The insulation is 75 mm thick.

8.) AIR DISTRIBUTOR
Low pressure air from the air pump is distributed below the coil through multiple perforated Schedule 40 PVC pipes.



GLYCOL MODEL	Capacity		W (m)	L (m)	H (m)	SHIPPING WEIGHT (kg)	CONNECTION (mm) NOMINAL SIZE		
	TON-HRS	kW-Hr					INLET	OUTLET	DRAIN
GIC-135	135	475	1.03	6.25	1.30	1,940	50	50	13
GIC-270	270	950	1.03	6.30	2.60	3,880	75	75	13
GIC-540	540	1,900	2.06	6.35	2.60	7,760	100	100	20

R - 22 MODEL	Capacity		W (m)	L (m)	H (m)	SHIPPING WEIGHT (kg)	CONNECTION (mm) NOMINAL SIZE		
	TON-HRS	kW-Hr					INLET	OUTLET	OIL-DRAIN
HIC-135	135	475	1.03	6.08	1.30	1,900	32	75	13
HIC-270	270	950	1.03	6.10	2.60	3,800	50	100	13
HIC-540	540	1,900	2.06	6.13	2.60	7,600	75	125	20

AMMONIA, CO_2 MODEL	Capacity		W (m)	L (m)	H (m)	SHIPPING WEIGHT (kg)	CONNECTION (mm) NOMINAL SIZE		
	TON-HRS	kW-Hr					INLET	OUTLET	OIL-DRAIN
AIC-170	170	600	1.10	6.07	1.40	1,500	32	65	13
AIC-340	340	1,200	1.10	6.08	2.80	3,000	40	75	13
AIC-680	680	2,400	2.20	6.10	2.80	6,000	50	100	20

COMPLETE UNIT WITH INSULETED TANK

MODEL	Capacity		W (m)	L (m)	H (m)	SHIPPING WEIGHT (kg)	CONNECTION (mm) NOMINAL SIZE		
	TON-HRS	kW-Hr					INLET	OUTLET	DRAIN
GIC-254U	254	895	2.12	6.39	1.81	4,700	75	75	13
HIC-254U	254	895	2.12	6.39	1.81	4,600	50	50	13
AIC-310U	310	1,090	2.12	6.39	1.81	3,800	40	75	13

Note : 1.) Other capacity and dimension are available, please contact manufacturer.
2.) Specifications subject to change without notice.

a. bank of ices clinging on the outer part of the serpentine coil
b. uniform ice thickness formed submerged under the water