

Container unit for Ice rinks

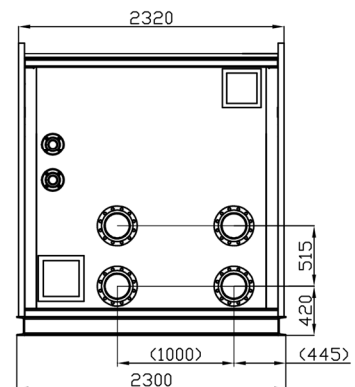
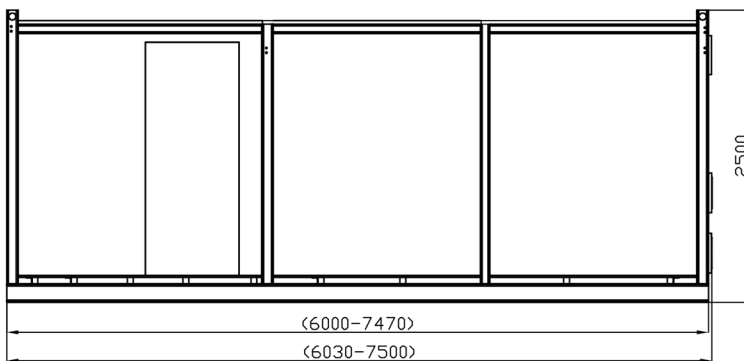
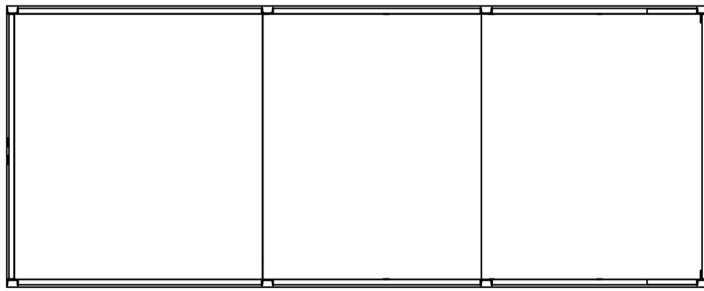
Compact water cooled low temperature chiller for ice rink in container design for outdoor installation with insulation, heating system, ventilation system.



Illustrative picture

DATASHEET		WATER COOLED LOW TEMPERATURE CHILLER IN CONTAINER FOR OUTDOOR INSTALLATION MODEL UL-1400ECO-SR2.G.INSUL.SP
PERFORMANCES		
Cooling capacity	kW	464
Compressors power input	kW	200,8
E.E.R. (compressors)	-	2,31
EVAPORATOR		
Evaporator type		BPHE
Evaporator fluid inlet temperature	°C	-9
Evaporator fluid outlet temperature	°C	-12
Fluid glycol percentage on evaporator	%	40% Ethylenic Glycol
Evaporator water flow	m ³ /h	150,4
CONDENSER		
Condenser type		BPHE
Condenser fluid inlet temperature	°C	+27
Condenser fluid outlet temperature	°C	+32
Fluid glycol percentage on condenser	%	40% Ethylenic Glycol
Condenser water flow	m ³ /h	127
DESUPERHEATER (included)		
Desuperheater type		BPHE
Desuperheater heating capacity	kW	2 x 43,3
Desuperheater fluid inlet temperature	°C	+40
Desuperheater fluid outlet temperature	°C	+45
Fluid glycol percentage on Desuperheater	%	40% Ethylenic Glycol
Desuperheater water flow	m ³ /h	2 x 8,5
HYDRAULIC MODULE (included)		
EVAPORATOR		
2 Pumps On-board type		ON/OFF (1 running / 1 100% reserve)
Power input	kW	15
Available head	kPa	150
CONDENSER		
2 Pumps On-board type		ON/OFF (1 running / 1 100% reserve)
Power input	kW	11
Available head	kPa	120
COMPRESSORS		
Compressors type / Refrigerant		Screw / R134a (GWP 1430)
Compressors number / circuits number		2 / 2
Capacity steps		STP
Compressors start-up type		Y / D
ELECTRIC DATA		
Electric supply		400V-3ph+PE-50Hz
APPROX. DIMENSIONS AND WEIGHT		
Length	mm	7500
Width	mm	2300
Height	mm	2500
Weight	Kg	5500

Legend : STP: Partialization steps on each compressor (25% at start-up) - 50% - 75% - 100%



Above drawings are only indicative and subject to change without notice

- Unit with 2 independant refrigerant circuits : Each refrigerant circuit is equipped with 1 semi-hermetic screw compressors Bitzer CSH 9573-180Y , 1 x BPHE Evaporator, 1x Water cooled BPHE condenser, 1 x Desuperheater, economizer, filter drier, electronic expansion valve.
- Unit is designed for installation at high altitude 3500m above sea.
- Unit includes :
 - On-board hydraulic module for ice rink with 2 pumps ON/OFF (1 running / 1 100% reserve) 150kPa available head, Filter, check valves and branch line for freecooling operation via external dry cooler.
For this there are 3 closing valves DN150 operated ON/OFF electronically.
 - On-board hydraulic module for condenser and dry cooler with 2 pumps ON/OFF (1 running / 1 100% reserve) 120kPa available head, Filter, check valves and connection of branch line from ice rink circuit for freecooling mode via external dry cooler.
For this there is 1 closing valve DN150 operated ON/OFF electronically.
 - Desuperheaters have 1 common connection

- Connections :
 - Evaporator connections : Flanges DN 150
 - Dry cooler connections : Flanges DN 150
 - Desuperheater connections : Flanges DN 65

- Electric datas :
 - 1 compressor current : 141,3A
 - Compressors current : 282,6A
 - Compressors current Max : 380A
 - Evaporator pump current : 27A
 - Condenser / Dry cooler pump current : 22A
 - Operating current : 332A
 - Maximum operating current : 429A