KELVIN
Air Conditioning System

Qualified for **Energy Technology List**
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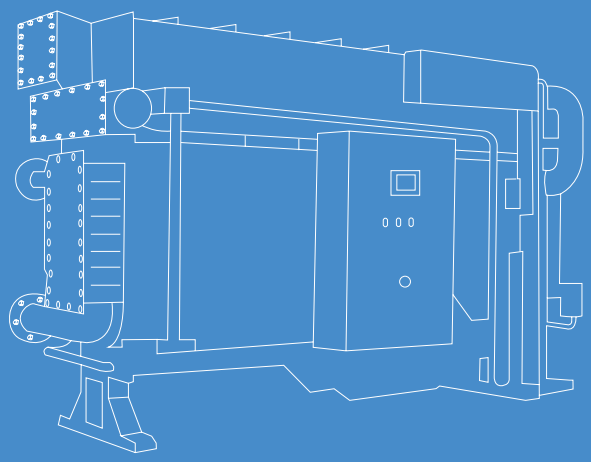
TM

bsi. ISO 9001 Quality Management | ISO 14001 Environmental Management

KELVIN Clim KSL

Cooling Capacity: 70 ~ 825 USRT



Li-Br Mo | A CLASS | INVERTER | 0.7 COP | Anti Crystal

Single Effect Hot Water Absorption Chiller

KELVIN AIR CONDITIONING

KELVIN Clim KSL

KELVIN Clim KSL : Single Effect Hot Water Absorption Chiller
Cooling Capacity: 70 ~ 825 USRT

KELVIN AIRCONDITIONING

1. Compact and Energy saving Design

With using high efficiency heat tube, smaller and lighter design to conventional things. Installation space also gets decreased.

2. Easy operation and convenience

Full automatic system with up-to -date control technology such as operation, setting, monitoring, and control flow chart.

3. Safe and efficient chiller

Being operated in vacuum condition, it keeps internal pressure in vacuum status even in stop mode. With 2 pumps for solution and refrigerant, it is totally quiet. No noise and No vibration.

4. Maintenance cost reduction and only one purging during a season

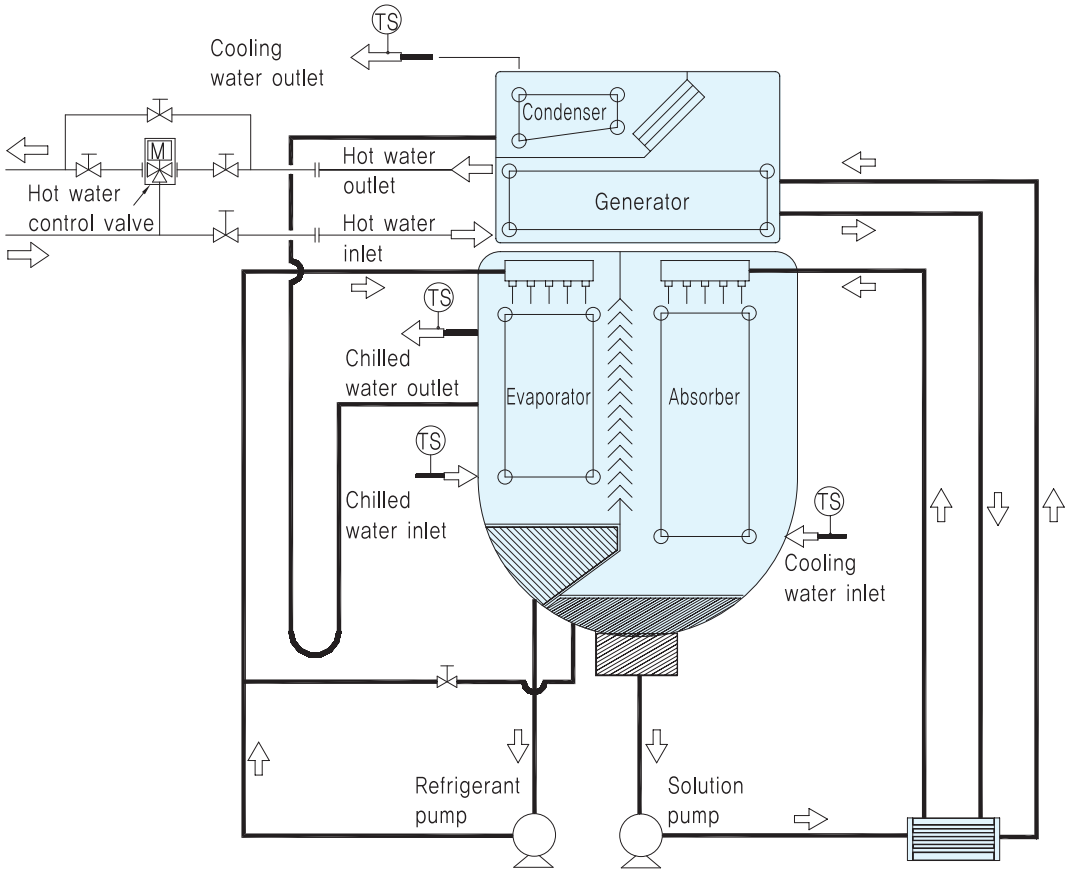
Optimized operation condition and trouble-free system under strict manufacturing standard:
1 x 1 O -6 atm.cc/sec leakage for a month.

5. High perfonnance Automatic

Purge system An automatic purge unit to collect into a purge tank remaining Non-condensable gases in system and purge tank for storing Non-condensable gases make long time operation without manual purging

CYCLE DIAGRAM

Single Effect Hot Water Absorption Chiller



SPECIFICATION

Single Effect Hot Water Absorption Chiller

Hot water inlet temp. 95°C

MODEL		UNIT	KSL75		KSL90		KSL110		KSL135		KSL155		KSL180		KSL210		KSL240		KSL270		KSL300	
Chilled water Temp at in-outlet		℃	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8
Cooling capacity		USRT	70	75	85	90	103	110	122	135	141	155	169	180	198	210	226	240	254	270	282	300
Chilled water	Flow rate	m³/h	42.3	45.4	51.4	54.4	62.3	66.5	73.8	81.6	85.3	93.7	102.2	108.9	119.8	127.0	136.7	145.2	153.6	163.3	170.6	181.4
	Pressure drop	mAq	7.8	9.0	8.5	9.5	7.5	8.6	7.4	9.1	7.0	8.4	7.9	9.0	7.5	8.4	7.9	8.9	7.8	8.8	8.0	9.1
	Pipe size	A	80				100				125								150			
Cooling water	Flow rate	m³/h	92.5	99.1	112.3	118.9	136.1	145.3	161.1	178.3	186.2	204.7	223.2	237.8	261.5	277.4	298.5	317.0	335.5	356.6	372.5	936.3
	Pressure drop	mAq	10.1	11.6	9.8	11.0	4.7	5.4	4.2	5.2	4.6	5.5	4.8	5.5	9.7	10.8	9.5	10.7	9.3	10.5	9.0	10.2
	Pipe size	A	125				150								200							
How water	Flow rate	m³/h	19.6	21.0	23.8	25.2	28.8	30.8	34.2	37.8	39.5	43.4	47.3	50.4	55.4	58.8	63.3	67.2	71.1	75.6	79.0	84.0
	Pressure drop	mAq	0.9	1.0	0.9	1.0	0.4	0.5	0.5	0.6	0.5	0.6	0.5	0.6	1.1	1.2	1.1	1.2	1.0	1.1	1.0	1.1
	Pipe size	A	65				80								100							
	Valve size	A	50A		65A				80A						100A							
Electricity	Power	–	3 O . 380 . 60 Hz																			
	Solution Pump	KW(A)	1.5(47A)								2.0(6.1A)				2.4(7.3A)							
	Refrinerant Pump	KW(A)	0.3(1.7A)												0.4(1.7A)							
	Purge Pump		0.4 (1.5A)																			
Dimension	Length	mm	2.640				3.680				3.686				4.744				4.776			
	Width	mm	1.244				1.244				1.369				1.365				1.495			
	Height	mm	2.255				2.255				2.389				2.389				2.575			
Weigh	Equipment weight	ton	3.6		3.7		4.6		4.8		5.8		6.0		7.0		7.3		9.0		9.4	
	Operation weight	ton	4.1		4.3		5.3		5.6		6.7		7.1		8.2		8.7		10.6		11.1	
	Conveyance		One body																			

Note

1) Standard pressure:
   Cooling and Chilled water:0.8Mpagf(8kgf/cm2G),
   Hot water standard pressure:1.6Mpa(16kgf/cm2G)
2) Chilled water standard TEMP:Inlet: 13t, Outlet :at
   Cooling water standard TEMP: Inlet: 31 t, Outlet :36.St
3) Hot water standard TEMP: Inlet: 95t, Outlet :BO"C.
4) Power standard : 380V, 3Phase,60Hz,(220,440,460V also ava ilable)
5) The specification could be changed without any notice.

Option

Heat source and operation condition is optional.
For example
1) Out of standard water pressure
2) Heat tube material is not copper or different thickness
3) Non-standard Temp conditions for hot, cold and chilled water.

SPECIFICATION

Single Effect Hot Water Absorption Chiller

Hot water inlet temp. 95°C

MODEL		UNIT	KSL340		KSL375		KSL420		KSL470		KSL525		KSL600		KSL675		KSL750		KSL825	
Chilled water Temp at in-outlet		℃	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8	12-7	13-8
Cooling capacity		USRT	320	338	360	375	399	420	446	473	494	525	569	600	641	675	712	750	783	825
Chilled water	Flow rate	m³/h	193.5	204.4	217.7	226.8	241.3	254.0	269.7	286.1	298.8	317.5	344.4	362.9	387.4	408.2	430.5	453.6	473.5	499.0
	Pressure drop	mAq	7.1	7.9	7.6	8.3	6.0	6.6	8.1	9.1	3.5	4.0	2.5	2.8	3.5	3.9	4.6	5.1	3.5	3.9
	Pipe size	A	200										250						300	
Cooling water	Flow rate	m³/h	422.7	446.5	475.5	495.3	527.0	554.8	589.1	624.8	652.5	693.5	752.1	792.5	846.1	891.6	940.2	990.7	1034.2	1089.7
	Pressure drop	mAq	9.4	10.5	9.8	10.6	6.8	7.5	9.2	10.4	12.1	13.7	8.9	9.9	12.0	13.3	15.9	17.6	16.2	18.0
	Pipe size	A	250				300						350						400	
How water	Flow rate	m³/h	89.6	94.6	100.8	105.0	111.7	117.6	124.98	132.4	138.3	147.3	159.4	168.0	179.4	189.0	199.3	210.1	219.2	231.0
	Pressure drop	mAq	1.0	1.1	1.0	1.1	1.0	1.1	1.4	1.6	1.9	2.1	0.5	0.6	1.1	1.2	1.1	1.2	1.0	1.1
	Pipe size	A	125										150						200	
	Valve size	A	125										150						200	
Electricity	Power	–	3 O . 380 . 60 Hz																	
	Solution Pump	KW(A)	2.4(7.3A)				3.0(10A)												4.5(16.2A)	
	Refrinerant Pump	KW(A)	0.4(1.7A)																1.5(4.0A)	
	Purge Pump		0.4 (1.5A)																	
Dimension	Length	mm	4.780				4.870		5.410		5.910		5.618		6.116		6.641		7.141	
	Width	mm	1.595				1.955						2.200							
	Height	mm	2.850				3.150						3.840							
Weigh	Equipment weight	ton	10.7		11.7		14.9		16.2		17.4		20.8		225.5		24.0		28.3	
	Operation weight	ton	12.7		13.2		18.0		19.6		21.0		25.0		27.0		28.8		34.0	
	Conveyance		One body																	

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