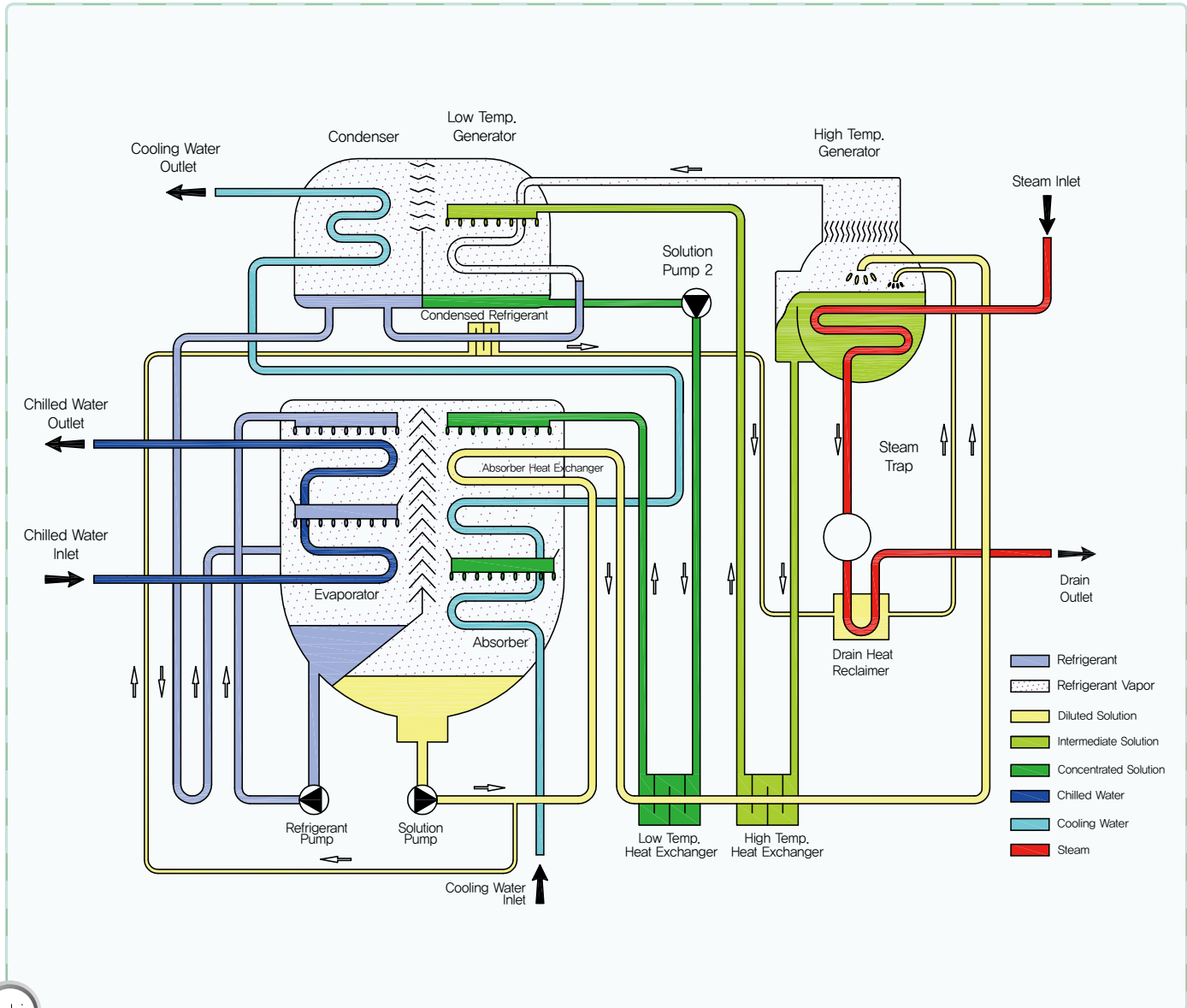


Steam Driven Absorption Chiller

SWHH Series

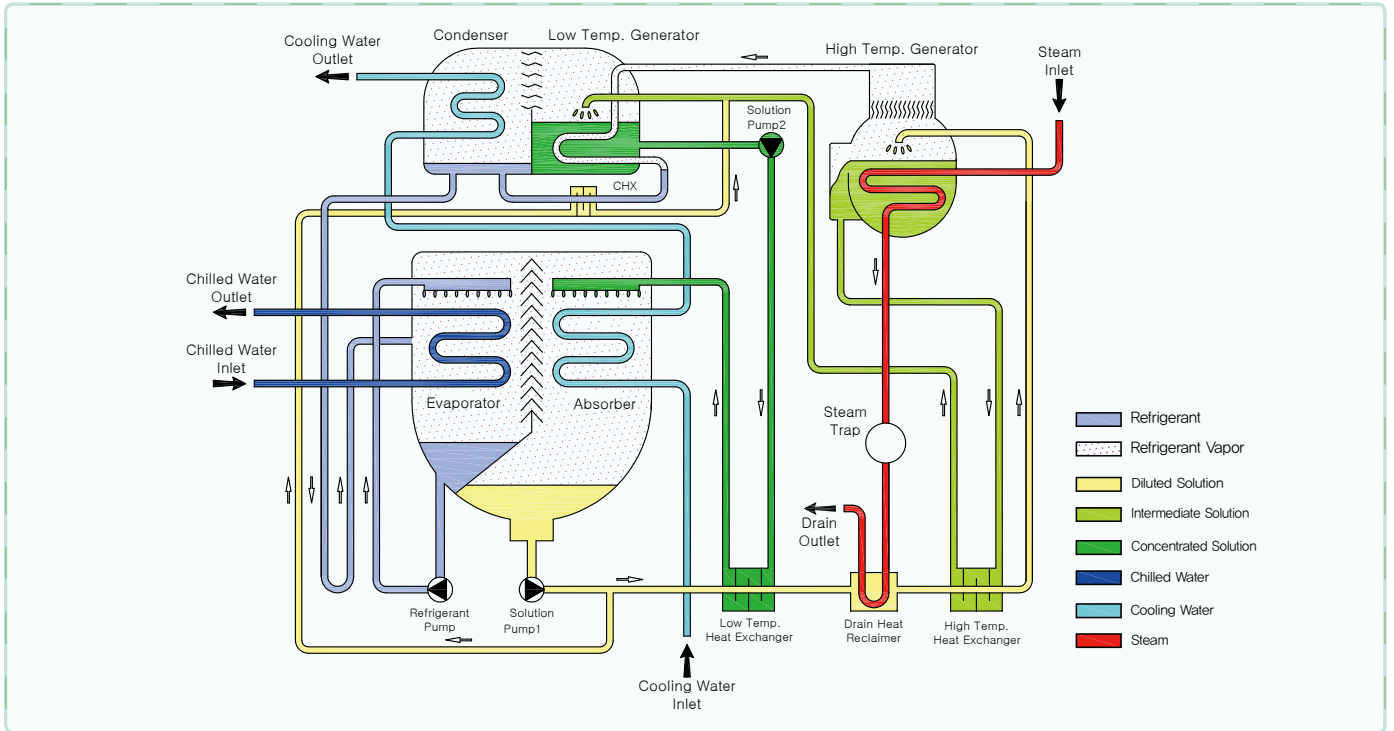


Absorption chiller is composed of evaporator, absorber, condenser, low/ high temp. generator, low/ high tem. heat exchanger, solution pump #1&2, refrigerant pump, Drain Heat Reclaimer. Chilled water temp. goes down in the evaporator and steam from evaporator is absorbed into the concentrated solution in absorber. Diluted solution in absorber flows into the High Temp. Generator by solution pump through low temp./high temp. heat exchanger and it is heated by steam to become intermediated solution.

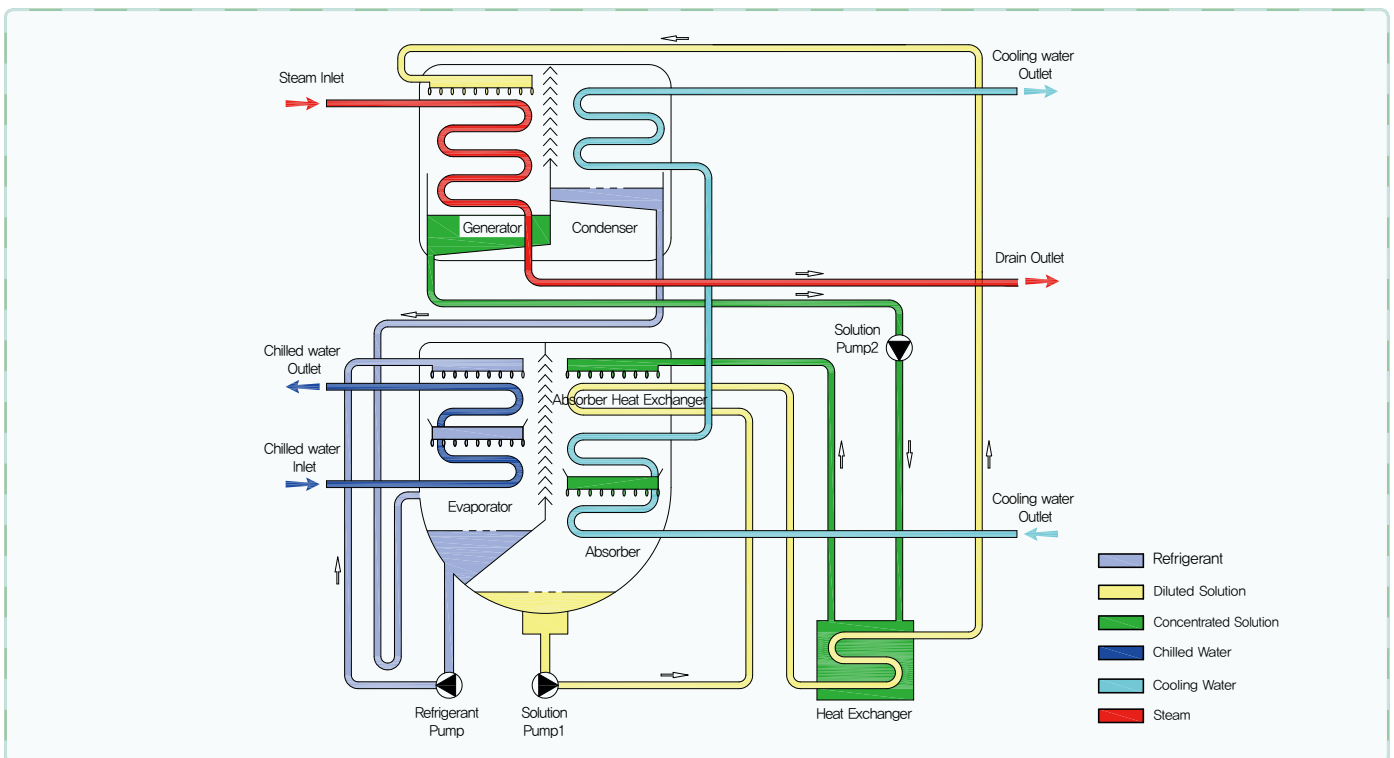
Concentrated Intermediate solution in the low temp. generator exchanges it's heat in the low/high heat exchanger, low temp. solution flow back to absorber and repeat the process.

Steam in the high temp. generator exchanges It's heat twice in the chiller, firstly in the high temp. generator and secondly in Drain Heat reclaimer, therefore high temp. steam drains out at low temp. like 95°C. This Process can increase heat recovery rate and chiller capacity

SWH Series



SHH Series



Steam Driven Absorption Chiller



Performance Data

→→

Model		Unit	SWHH100	SWHH120	SWHH150	SWHH180	SWHH210	SWHH240	SWHH280	SWHH320	SWHH360	SWHH400	SWHH450	SWHH500	
Cooling Capacity		kW	352	422	527	633	738	844	985	1,125	1,266	1,407	1,582	1,758	
		usRT	100	120	150	180	210	240	280	320	360	400	450	500	
Chilled Water	Inlet/Outlet Temp.	°C	12 / 7												
	Flow rate	m ³ /h	60.5	72.6	90.7	108.9	127.0	145.2	169.3	193.5	217.7	241.9	272.2	302.4	
	P. Drop	mH ₂ O	5.9	6.1	8.0	8.2	7.6	7.5	5.4	5.3	5.7	5.8	5.0	5.7	
	Connection	mm	100				125			150			200		
Cooling Water	Inlet/Outlet Temp.	°C	32 / 37.1												
	Flow rate	m ³ /h	100	120	150	180	210	240	280	320	360	400	450	500	
	P. Drop	mH ₂ O	7.3	7.7	9.9	10.4	11.5	10.2	8.3	7.9	8.1	8.2	8.2	8.3	
	Connection	mm	125		150			200			250				
Steam	Inlet Pressure	MPa	0.8												
	Flow rate	Kg/h	359	431	539	646	754	862	1,005	1,149	1,292	1,436	1,616	1,795	
	Inlet Connection	mm	50				65				80				
	Drain Connection	mm	25						40						
	Control Valve	mm	40				50								
Electric	Power source	-	3PH, 400V, 50Hz												
	Ref. Pump	kW	0.2(1.1)				0.3(1.5)				0.4 (1.5)				
	Abs. Pump1	kW	2.0				2.4				3.2				
	Abs. Pump2	kW	0.3				0.4								
	Purge Pump	kW	0.4												
	Control Panel	kW	0.2												
	Total Ampere	kW	3.2				3.7			3.8			4.6		
Total Current	A	10.9				11.4			11.6			13.7			
Size	Length (L)	mm	2,771		3,816		3,869		4,940		5,069		5,074		
	Width (W)	mm	1,490				1,652				2,004		1,990		
	Height (H)	mm	2,473		2,473		2,705		2,781		2,947				
Weight	Rigging	ton	4.0	4.1	5.1	5.2	5.9	6.1	7.3	7.6	9.6	9.9	11.5	11.9	
	Operation	ton	4.4	4.6	5.7	5.8	6.7	7.0	8.3	8.7	10.9	11.3	13.2	13.7	
Space for Tube Replacement		mm	2,400		3,400				4,600						

Note

- Working pressure of each water side is based on 1.0MPa (150psig)
- Fouling factor 0.0001 m².hr.°C/Kcal for Absorber, Condenser and Evaporator.
- Min. outlet temp. of chilled water: 5°C
- Min. allowable inlet temp. of cooling water: 20°C.
- Controllable range shall be 0~100%.
- Standard Power source is 3ph, 400V, 50Hz and available 220, 380, 440V and 460V power source.
- Each water flow can be adjusted within 50~120%.

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SWHH Series

Steam Driven Absorption Chiller

Performance Data

Model		Unit	SWHH560	SWHH630	SWHH700	SWHH800	SWHH900	SWHH1000	SWHH1100	SWHH1200	SWHH1300	SWHH1400	SWHH1500	
Cooling Capacity		kW	1,969	2,215	2,461	2,813	3,165	3,516	3,868	4,220	4,571	4,923	5,274	
		usRT	560	630	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	
Chilled Water	Inlet/Outlet Temp.	°C	12 / 7											
	Flow rate	m ³ /h	338.7	381.0	423.4	483.8	544.3	604.8	665.3	725.8	786.2	846.7	907.2	
	P. Drop	mH ₂ O	7.3	9.9	9.4	12.8	17.0	11.9	15.1	11.4	14.3	8.6	10.6	
	Connection	mm	200			250			300			350		
Cooling Water	Inlet/Outlet Temp.	°C	32 / 37.1											
	Flow rate	m ³ /h	560	630	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	
	P. Drop	mH ₂ O	11.3	15.3	11.9	14.3	15.8	14.8	15.8	14.1	13.4	13.6	14.1	
	Connection	mm	250		300			350		400		450		
Steam	Inlet Pressure	MPa	0.8											
	Flow rate	Kg/h	2,010	2,262	2,513	2,872	3,231	3,590	3,949	4,308	4,667	5,026	5,385	
	Inlet Connection	mm	100			125			150					
	Drain Connection	mm	50			65			80					
	Control Valve	mm	65				80				100			
Electric	Power source	-	3PH, 400V, 50Hz											
	Ref. Pump	kW	0.4					1.5						
	Abs. Pump1	kW	5.5					7.5						
	Abs. Pump2	kW	2.2								4.5			
	Purge Pump	kW	0.4						0.75					
	Control Panel	kW	0.2											
	Total Ampere	kW	8.7			9.8			12.2			14.5		
	Total Current	A	24.8			27.4			37.2			46.7		
Size	Length (L)	mm	5,717	6,215	6,231	6,833	7,333	6,849	7,449	6,967	7,467	7,192	7,697	
	Width (W)	mm	2,180		2,403	2,475		2,751	3,161			3,505		
	Height (H)	mm	2,950		3,068	3,350		3,471	3,474		3,937	4,000		
Weight	Rigging	ton	16.1	17.5	18.9	21.1	23.7	26.2	28.7	31.3	33.8	36.4	38.9	
	Operation	ton	18.7	20.3	21.8	24.5	27.4	30.4	33.4	36.4	39.4	42.3	45.3	
Space for Tube Replacement		mm	5,200	5,700	5,700	6,300	6,700	6,300	6,700	6,300	6,700	6,300	6,700	

Option

1. Non-standard cooling capacity.
2. Higher working pressure (230psig = 1.6MPa, 300psig = 2.0MPa)
3. Special tubes (material) & thickness.
4. Various temp. conditions (CHW, CW, HW)
5. Outdoor installation.
6. The specifications above are subject to change without prior notice for an improvement of the chiller.

Steam Driven Absorption Chiller



Performance Data

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Model		Unit	SWH100	SWH120	SWH150	SWH180	SWH210	SWH240	SWH280	SWH320	SWH360	SWH400	SWH450	SWH500			
Cooling Capacity		kW	352	422	527	633	738	844	985	1,125	1,266	1,407	1,582	1,758			
		usRT	100	120	150	180	210	240	280	320	360	400	450	500			
Chilled Water	Inlet/Outlet Temp.	°C	12 / 7														
	Flow rate	m ³ /h	60.5	72.6	90.7	108.9	127.0	145.2	169.3	193.5	217.7	241.9	272.2	302.4			
	Pressure Drop	mH ₂ O	5.6	5.9	7.6	8.1	7.5	7.4	5.4	5.3	5.8	6.0	5.1	5.4			
	Connection	mm	100				125			150				200			
Cooling Water	Inlet/Outlet Temp.	°C	32 / 37.2														
	Flow rate	m ³ /h	100	120	150	180	210	240	280	320	360	400	450	500			
	Pressure Drop	mH ₂ O	8.9	9.1	10.4	10.8	10.7	11.2	8.9	8.6	8.8	8.7	8.4	8.6			
	Connection	mm	125		150				200				250				
Steam	Inlet Pressure	MPa	0.8														
	Flow rate	kg/h	390	468	585	702	819	936	1,092	1,248	1,404	1,560	1,755	1,950			
	Inlet Connection	mm	50				65				80						
	Drain Connection	mm	25								40						
	Control Valve	mm	40				50				65						
Electric	Power source	–	3PH / 400V / 50Hz														
	Ref. Pump	kW	0.3				0.4				0.4						
	Abs. Pump1	kW	2.0				2.4				3.2						
	Abs. Pump2	kW	0.3				0.4				0.4						
	Purge Pump	kW	0.4														
	Control Panel	kW	0.2														
	Total kW	kW	3.2				3.7				3.8				4.6		
Total Amp.	A	10.9				11.4				11.6				13.7			
Size	Length (L)	mm	2,597		3,680			3,708			4,734			4,776		4,880	
	Width (W)	mm	1,420				1,652				1,735				1,954		
	Height (H)	mm	2,200				2,250				2,450				2,600		
Weight	Rigging	ton	4.0	4.1	5.1	5.2	5.9	6.1	7.3	7.6	9.6	9.9	11.5	11.9			
	Operation	ton	4.4	4.6	5.7	5.8	6.7	7.0	8.3	8.7	10.9	11.3	13.2	13.7			
Space for Tube Replacement	mm	2,400			3,400				4,500								

Note

- Working pressure of each water side is based on 1.0MPa (150psig)
- Fouling factor 0.0001 m².hr.°C/Kcal for Absorber, Condenser and Evaporator.
- Min. outlet temp. of chilled water: 5°C
- Min. allowable inlet temp. of cooling water: 20°C.
- Controllable range shall be 0~100%.
- Standard Power source is 3ph, 400V, 50Hz and available 220, 380, 440V and 460V power source.
- Each water flow can be adjusted within 50~120%.

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SWH Series

Steam Driven Absorption Chiller

Performance Data

Model		Unit	SWH560	SWH630	SWH700	SWH800	SWH900	SWH1000	SWH1100	SWH1200	SWH1300	SWH1400	SWH1500	
Cooling Capacity		kW	1,969	2,215	2,461	2,813	3,465	3,516	3,868	4,220	4,571	4,923	5,274	
		usRT	560	630	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	
Chilled Water	Inlet/Outlet Temp.	°C	12 / 7											
	Flow rate	m ³ /h	338.7	381.0	423.4	483.8	544.3	604.8	665.3	725.8	786.2	846.7	907.2	
	Pressure Drop	mH ₂ O	4.2	5.8	7.7	5.7	7.7	10.1	6.7	8.6	10.7	8.7	10.6	
	Connection	mm	200			250			300			350		
Cooling Water	Inlet/Outlet Temp.	°C	32 / 37.2											
	Flow rate	m ³ /h	560	630	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	
	Pressure Drop	mH ₂ O	6.8	9.3	12.4	8.8	12.0	15.8	11.1	14.1	17.6	14.0	16.8	
	Connection	m	300			350			400			450		
Steam	Inlet Pressure	MPa	0.8											
	Flow rate	kg/h	2,184	2,457	2,730	3,120	3,510	3,900	4,290	4,680	5,070	5,460	5,850	
	Inlet Connection	mm	100			125			150					
	Drain Connection	mm	50			65			80					
	Control Valve	mm	65	80				100						
Electric	Power source	–	3PH / 400V / 50Hz											
	Ref. Pump	kW	0.4				1.5							
	Abs. Pump1	kW	5.5					7.5						
	Abs. Pump2	kW	2.2								4.5			
	Purge Pump	kW	0.4						0.75					
	Control Panel	kW	0.2											
	Total kW	kW	8.7				9.8				12.2			
Total Amp.	A	24.8				27.4				37.2				46.7
Size	Length (L)	mm	4,998	5,540	6,038	5,644	6,142	6,667	6,293	6,818	7,318	6,860	7,360	
	Width (W)	mm	2,180			2,606			3,000			3,250		
	Height (H)	mm	2,900			3,350			3,450			3,650		
Weight	Rigging	ton	16.1	17.5	18.9	21.1	23.7	26.2	28.7	31.3	33.8	36.4	38.9	
	Operation	ton	18.7	20.3	21.8	24.5	27.4	30.4	33.4	36.4	39.4	42.3	45.3	
Space for Tube Replacement	mm	4,500	5,200	5,700	5,200	5,700	6,200	5,700	6,200	6,700	6,200	6,700		

Option

1. Non-standard cooling capacity.
2. Higher working pressure (230psig = 1.6MPa, 300psig = 2.0MPa)
3. Special tubes (material) & thickness.
4. Various temp. conditions (CHW, CW, HW)
5. Outdoor installation.
6. The specifications above are subject to change without prior notice for an improvement of the chiller.

Steam Driven Absorption Chiller



Performance Data

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Model		Unit	S50HH	S60HH	S70HH	S80HH	S100HH	S120HH	S150HH	S180HH	S210HH	S240HH	S280HH	S320HH	S360HH	S400HH	
Cooling Capacity		kW	176	211	246	281	352	422	527	633	738	844	985	1,125	1,266	1,407	
		usRT	50	60	70	80	100	120	150	180	210	240	280	320	360	400	
Chilled Water	Inlet Temp./Outlet Temp.	°C	12 / 7														
	Flow rate	m ³ /h	30.2	36.3	42.3	48.4	60.5	72.6	90.7	109	127	145	169	194	218	242	
	P. Drop	mH ₂ O	6.8	6.4	5.8	6.0	5.9	6.1	8.0	8.2	7.6	7.5	5.4	5.3	5.7	5.8	
	Connection	mm	80				100				125			150			
Cooling Water	Inlet Temp./Outlet Temp.	°C	32 / 38.8														
	Flow rate	m ³ /h	50	60	70	80	100	120	150	180	210	240	280	320	360	400	
	P. Drop	mH ₂ O	7.3	6.1	8.0	7.6	7.3	7.7	9.9	10.4	10.6	10.2	8.3	7.9	8.1	8.2	
	Connection	mm	100				125			150				200			
Steam	Inlet Pressure	MPa	0.15														
	Flow rate	kg/h	337	404	471	538	673	808	1,010	1,211	1,413	1,615	1,884	2,154	2,423	2,692	
	Inlet Connection	mm	100				125				150			200			
	Drain Connection	mm	25				40				50						
	Control Valve	mm	40		50		65			80		100			125		
Electric	Power source	-	3PH 400V, 50Hz														
	Abs. Pumps	kW(A)	1.5 (5.4)						1.8 (6.2)			1.9 (6.2)		2.4 (7.9)			
	Ref. Pump	kW(A)	0.2 (1.1)						0.3 (1.4)								
	Purge Pump	kW(A)	0.4 (1.4)														
	Control Panel	kW(A)	0.2 (0.5)														
	Total kW	kW	2.3						2.7			2.8		3.3			
	Total Ampere @400V	A	8.4						9.5			9.5		11.2			
Size	Length (L)	mm	2110			2610		2658		3678		3728		4748		4754	
	Width (W)	mm	1112				1151				1222				1395		
	Height (H)	mm	2241				2372				2640				2677		
Weight	Rigging	ton	2.1	2.2	2.6	2.7	3.6	3.7	4.6	4.8	5.5	5.8	6.8	7.1	8.8	9.2	
	Operation	ton	2.3	2.5	2.9	3.1	4.1	4.2	5.2	5.5	6.4	6.8	7.9	8.4	10.4	10.9	
Space for Tube Replacement		mm	1,900			2,400				3,400				4,600			
Water Volume of Machine	Chilled Water Side	ℓ	60	67	77	80	111	123	142	159	216	237	258	286	324	348	
	Cooling Water Side	ℓ	167	188	218	228	315	343	404	446	579	632	714	785	959	1,026	
	Hot Water Side	ℓ	46	56	64	64	81	90	103	116	145	163	181	205	234	260	

Note

- Working pressure of each water side is based on 1.0MPa (150psig)
- Fouling factor 0.0001 m².hr. °C/Kcal for Absorber, Condenser and Evaporator.
- Min. outlet temp. of chilled water: 5°C
- Min. allowable inlet temp. of cooling water: 20°C.
- Controllable range shall be 0~100%.
- Standard Power source is 3ph, 400V, 50Hz and available 220, 380, 440V and 460V power source.
- Each water flow can be adjusted within 50~120%.

SHH Series

Steam Driven Absorption Chiller

Performance Data

Model		Unit	S450HH	S500HH	S560HH	S630HH	S700HH	S770HH	S840HH	S1000HH	S1100HH	S1200HH	S1300HH	S1400HH	S1500HH	
Cooling Capacity		kW	1,582	1,758	1,969	2,215	2,461	2,708	2,954	3,516	3,868	4,220	4,571	4,923	5,274	
		usRT	450	500	560	630	700	770	840	1000	1100	1200	1300	1400	1500	
Chilled Water	Inlet Temp./Outlet Temp.	°C	12 / 7													
	Flow rate	m ³ /h	272	302	339	381	423	466	508	605	665	726	786	847	907	
	P. Drop	mH ₂ O	5.0	5.3	7.3	9.9	9.2	9.6	10.6	10.1	10.6	8.6	10.7	8.6	10.6	
	Connection	mm	200				250				300			350		
Cooling Water	Inlet Temp./Outlet Temp.	°C	32 / 38.8													
	Flow rate	m ³ /h	450	500	560	630	700	770	840	1,000	1,100	1,200	1,300	1,400	1,500	
	P. Drop	mH ₂ O	8.2	8.3	7.2	9.7	7.8	10.0	10.1	10.2	10.5	9.7	9.7	8.3	10.1	
	Connection	mm	250				300			350			400			
Steam	Inlet Pressure	MPa	0.15													
	Flow rate	kg/h	3,029	3,365	3,769	4,240	4,711	5,182	5,653	6,730	7,403	8,076	8,749	9,422	10,095	
	Inlet Connection	mm	200			250			300			350			400	
	Drain Connection	mm	65					80			100					
	Control Valve	mm	125				150				200					
Electric	Power source	-	3PH 400V, 50Hz													
	Abs. Pumps	kW(A)	2.4 (8.0)		2.8 (8.5)		4.5 (12.3)			4.5 (13.3)		5 (15.2)		6.7 (20)		
	Ref. Pump	kW(A)	0.4 (1.4)						1.5 (4.0)							
	Purge Pump	kW(A)	0.4 (1.4)						0.75 (2.2)							
	Control Panel	kW(A)	0.2 (0.5)													
	Total kW	kW	3.4		3.8		5.5			6.6	7.0	7.5		9.2		
	Total Ampere @400V	A	11.3		11.8		15.6			19.2	20.0	21.9		26.7		
Size	Length (L)	mm	4872		5414	5912	6012	6617	7117	6639	7139	6749	7249	6966	7466	
	Width (W)	mm	1557		1557			1786			2177		2467		3180	
	Height (H)	mm	2880		2880			3160			3461		3874		4000	
Weight	Rigging	ton	10.5	10.9	12.3	13.7	17.2	19.0	20.6	23.9	26.0	28.5	30.8	33.1	35.4	
	Operation	ton	12.5	13.1	14.8	16.4	20.8	22.9	24.9	29.0	31.6	34.6	37.5	40.3	43.2	
Space for Tube Replacement		mm	4,600		5,200		5,700		6,200	6,700	6,200	6,700	6,200	6,700	6,300	6,800
Water Volume of Machine	Chilled Water Side	ℓ	465	485	526	563	656	701	744	1,004	1,060	1,355	1,423	1,795	1,890	
	Cooling Water Side	ℓ	1,289	1,363	1,462	1,554	2,024	2,147	2,264	2,841	2,993	3,732	3,915	5,664	5,893	
	Hot Water Side	ℓ	279	311	341	373	402	540	578	618	752	643	691	832	864	

Option

1. Non-standard cooling capacity.
2. Higher working pressure [230psig = 1.6MPa, 300psig = 2.0MPa]
3. Special tubes (material) & thickness.
4. Various temp. conditions [CHW, CW, HW]
5. Outdoor installation.
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