

Double Effect Steam Fired Absorption chiller

Cooling Cycle (Cooling Mode) Performance Data

Double Effect Steam Fired Type (100~500RT) → →

Model		Unit	SW100	SW120	SW150	SW180	SW210	SW240	SW280	SW320	SW360	SW400	SW450	SW500
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 Temp./Outlet Temp.	°C	12 / 7											
	Flow rate	m ³ /h	60	73	91	109	127	145	169	194	218	242	272	302
	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 Temp./Outlet Temp.	°C	32 / 37.5											
	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	440	528	660	792	924	1,056	1,232	1,408	1,584	1,760	1,980	2,200
	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							
	Abs. Pump	kW	2.0				2.4				3.2			
	Purge Pump	kW	0.4											
	Control Panel	kW	0.2											
	Total kW	kW	2.9				3.4				4.2			
	Total Amp.	A	9.5				10.6				12.6			
Size	Lenght (L)	mm	2,597		3,680		3,708		4,734		4,776		4,880	
	Width (W)	mm	1,389				1,652				1,735		1,954	
	Height (H)	mm	2,200				2,250				2,450		2,600	
Weight	Rigging	ton	3.8	3.9	4.9	5.2	5.9	6.4	7.4	7.8	9.6	10.1	11.6	12.0
	Operation	ton	4.2	4.4	5.5	5.8	6.7	7.2	8.4	8.9	10.9	11.5	13.3	13.8
Space for Tube Replacement	mm	2,400			3,400			4,500						

Note

1. Working pressure of chilled water/cooling water circuit are based on 1.0Mpa [150psig].
2. Fouling factor 0.0001m².h.°C/kcal for Absorber and Condenser, 0.0001m².h.°C/kcal for Evaporator.
3. Standard power source is 3ph, 400V, 50Hz. Available 220, 380, 440V and 460V Power source.
4. Catalogue specifications are subject to change without prior notice.

SW Series

Double Effect Steam Fired Absorption chiller

Performance Data

Double Effect Steam Fired Type (560~1500RT)

Model		Unit	SW560	SW630	SW700	SW800	SW900	SW1000	SW1100	SW1200	SW1300	SW1400	SW1500	
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 Temp./Outlet Temp.	°C	12 / 7											
	Flow rate	m³/h	339	381	423	484	544	605	665	726	786	847	907	
	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 Temp./Outlet Temp.	°C	32 / 37.5											
	Flow rate	m³/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	mm	300			350			400			450		
Steam	Inlet Pressure	MPa	0.8											
	Flow rate	kg/h	2,464	2,772	3,080	3,520	3,960	4,400	4,840	5,280	5,720	6,610	6,600	
	Inlet Connection	mm	100			125			150					
	Drain Connection	mm	50			65			80					
	Control Valve	mm	80				100				125			
Electric	Power source	—	3PH, 400V, 50Hz											
	Ref. Pump	kW	0.4				1.5							
	Abs. Pump	kW	5.5						7.5					
	Purge Pump	kW	0.4						0.75					
	Control Panel	kW	0.2											
	Total kW	kW	6.5				7.6				10.0			
	Total Amp.	A	18.6				21.0				30.8			
Size	Lenght (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				2,829			
	Height (H)	mm	2,900				3,350				3,450			
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		

Options

- High Pressure water Boxes**
Water boxes rated for 250psig or 300psig working pressure shall be furnished when specified on the equipment specification data.
- Special Tubes**
Tubes of non-standard materials and/or wall thickness shall be provided when specified on the equipment specification data.
- Special operation temperature conditions**
Special operation temperature shall be provided when specified on the equipment specification data.

Performance Data

High Efficiency Double Effect Steam Fired Type (100~500RT) → →

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 Temp./Outlet Temp.	°C	12 / 7														
	Flow rate	m ³ /h	60	73	91	109	127	145	169	194	218	242	272	302			
	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 Temp./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				3.8				4.6						
	Tatal Amp.	A	11.1				12.2				14.2						
Size	Lenght (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

1. Working pressure of chilled water/cooling water circuit are based on 1.0Mpa [150psig].
2. Fouling factor 0.0001m².h.°C/kcal for Absorber and Condenser, 0.0001m².h.°C/kcal for Evaporator.
3. Standard power source is 3ph, 400V, 50Hz. Available 220, 380, 440V and 460V Power source.
4. Catalogue specifications are subject to change without prior notice.

SWH Series

Double Effect Steam Fired Absorption chiller

Performance Data

High Efficiency Double Effect Steam Fired Type (560~1500RT)

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 Temp./Outlet Temp.	°C	12 / 7											
	Flow rate	m ³ /h	339	381	423	484	544	605	665	726	786	847	907	
	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 Temp./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			14.5		
	Tatal Amp.	A	25.1			27.5			37.3			46.8		
Size	Lenght (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		

Options

1. High Pressure water Boxes

Water boxes rated for 250psig or 300psig working pressure shall be furnished when specified on the equipment specification data.

2. Special Tubes

Tubes of non-standard materials and/or wall thickness shall be provided when specified on the equipment specification data.

3. Special operation temperature conditions

Special operation temperature shall be provided when specified on the equipment specification data.