

# Single Effect Steam Fired Absorption Chiller

## Performance Data

Single Effect Steam Fired Type (50~400RT) →

Model		Unit	S050	S060	S070	S080	S100	S120	S150	S180	S210	S240	S280	S320	S360	S400		
Cooling Capacity	kW		176	211	246	281	352	422	527	633	738	844	985	1,125	1,265	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 <sup>3</sup> /h	30.2	36.3	42.3	48.4	60.5	72.6	90.7	109	127	145	169	194	218	242		
	Pressure Drop	mH <sub>2</sub> O	4.0	3.7	6.2	5.6	5.6	5.9	7.6	8.1	7.5	7.4	5.4	5.3	5.8	6.0		
	Connection	mm	80				100				125			150				
Cooling Water	Inlet Temp./Outlet Temp.	°C	32 / 39.4															
	Flow rate	m <sup>3</sup> /h	50	60	70	80	100	120	150	180	210	240	280	320	360	400		
	Pressure Drop	mH <sub>2</sub> O	7.0	6.1	10.2	9.6	8.9	9.1	10.4	10.8	10.7	11.2	8.9	8.6	8.8	8.7		
	Connection	mm	100				125			150				200				
Steam	Pressure	MPa	0.15															
	Flow rate	kg/h	390	468	546	624	780	936	1,170	1,404	1,638	1,872	2,184	2,496	2,808	3,120		
	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															
	Ref. Pump	kW	0.2				0.3				0.4							
	Abs. Pump	kW	1.2				1.5				2.0			2.4				
	Purge Pump	kW	0.4															
	Control Panel	kW	0.2															
	Total kW	kW	2.0				2.4				3.0			3.4				
	Total Ampere	A	7.1				8.2				9.6			10.6				
Size	Length (L)	mm	2,095		2,598		2,597		3,680		3,708		4,734		4,776			
	Width (W)	mm	1,077		1,095		1,244				1,472				1,495			
	Height (H)	mm	1,880				2,236				2,238				2,521			
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	8.6	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	1,800		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 0.0001m<sup>2</sup>.h.°C/kcal for Absorber and Condenser, 0.0001m<sup>2</sup>.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.

# S Series

## Single Effect Steam Fired Absorption Chiller

### Performance Data

Single Effect Steam Fired Type (450-1500RT)

Model		Unit	\$450	\$500	\$560	\$630	\$700	\$800	\$900	\$1000	\$1100	\$1200	\$1300	\$1400	\$1500
Cooling Capacity	kW		1,582	1,758	1,969	2,215	2,461	2,813	3,165	3,516	3,868	4,220	4,571	4,923	5,274
	usRT		450	500	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	272	302	339	381	423	484	544	605	665	726	786	847	907
	Pressure Drop	mH <sub>2</sub> O	5.1	5.4	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 / 39.4												
	Flow rate	m³/h	450	500	560	630	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
	Pressure Drop	mH <sub>2</sub> O	8.4	8.6	6.8	9.3	12.4	8.8	12.0	15.8	11.1	14.1	17.6	14.0	16.8
	Connection	m	250		300		350		400		450				
Steam	Pressure	MPa	0.15												
	Flow rate	kg/h	3,510	3,900	4,368	4,914	5,460	6,240	7,020	7,800	8,580	9,360	10,140	10,920	11,700
	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												
	Ref. Pump	kW	0.4				1.5								
	Abs. Pump	kW	2.4		3.0				4.5						
	Purge Pump	kW	0.4				0.75								
	Control Panel	kW	0.2												
	Total kW	kW	3.4		4.0		5.1		7.0						
	Total Ampere	A	10.6		14.6		17.0		22.8						
Size	Length (L)	mm	4,880		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	1,594		1,830		2,206		2,329		2,929				
	Height (H)	mm	2,799		3,244		3,522		3,900		3,950				
Weight	Rigging	ton	10.5	10.9	14.7	16.0	17.2	19.3	21.6	23.9	26.2	28.5	30.8	33.1	35.4
	Operation	ton	12.5	13.1	17.8	19.4	20.8	23.3	26.1	29.0	31.8	34.6	37.5	40.3	43.2
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.