

Single Effect Hot Water Absorption Chiller

SIGMA ACE

TSH Series (COP=0.80)

Utilization of hot water
from co-generation
and waste heat.



Specifications

Model			ΣTSH-80	ΣTSH-120	ΣTSH-160	ΣTSH-240	ΣTSH-320	ΣTSH-400	ΣTSH-500
Cooling Capacity		kW	281	422	563	844	1,125	1,407	1,758
Chilled Water	Temperature	℃	13.0→8.0						
	Flow	m ³ /h	48.4	72.6	96.8	145.2	193.5	241.9	302.4
	Pressure Drop	kPa	72.5	68.4	75.3	97.4	88.5	85.4	57.1
Cooling Water	Temperature	℃	31.0→36.7						
	Flow	m ³ /h	96.0	144.0	192.0	288.0	384.0	480.0	600.0
	Pressure Drop	kPa	125.5	139.7	85.2	121.7	106.5	103.0	149.4
Hot Water	Temperature	℃	88.0→83.0			90.0→80.0			
	Flow	m ³ /h	60.5	90.7	121.0	90.7	121.0	151.2	189.0
	Pressure Drop	kPa	20.4	55.0	39.1	26.7	30.0	24.6	42.9
Dimension	Length (L)	mm	3,000	4,000	3,732	5,232	5,300	5,300	6,394
	Width (W)	mm	1,700	1,700	1,752	1,752	2,200	2,200	2,199
	Height (H)	mm	3,000	3,000	3,131	3,171	3,500	3,670	3,670
Weight	Operation Weight	ton	6.4	8.0	10.7	14.5	18.2	23.2	28.8
	Shipping Weight	ton	5.7	7.2	9.3	12.6	15.8	19.9	24.5

- Note) 1. The tolerance of the performance is in compliance with the JIS B 8622-2009.
 2. The operational range of loading is from 10% to 100%.
 3. The maximum operation pressure for the Chilled Water, the Cooling Water and the Hot Water System is at 784kPa(Gauge).
 4. The fouling factor of the Chilled, Cooling and Hot Water System is 8.6×10⁻⁵ m²·K/W.
 5. Keep the Cooling Water Inlet Temperature more than 22℃.
 6. The company reserves the right to change design and specifications without notice.


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