



Steam-Fired Instantaneous Water Heater

# Steam Aqua®



The simple operation of **TLV's Steam Aqua** allows you to supply ample amounts of clean hot water at the temperature you want, when you want it.

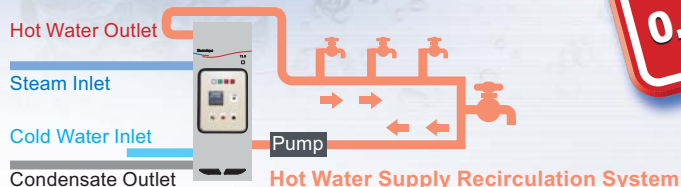
**Stainless Wetted Parts  
Indirect Heating**

**Quick And  
Easy**

**Compact  
0.6m<sup>2</sup> Footprint**

**Up to 500kW Class  
Water Up To 95°C**

## Sample Installation



**See back page for details**

## Specifications

Model		SQ1	SQ3	SQ5
Thermal Capability Class		100kW Class	300kW Class	500kW Class
Temperature Setting Range		30 to 95°C		
Required Utilities	Steam	0.6MPaG or lower		
	Cold Water	0.1 to 1.0MPaG    Temp. : 5 to 70°C		
	Air for Control Valve(MPaG)	Clean Air		
		0.25 to 0.9	0.37 to 0.9	0.28 to 0.9
	Power	100V AC		
Materials	Wetted* Parts	Stainless Steel SUS304, SUS316L, others		
	Base/Frame unit, Cover (Front and sides)	Cold rolled steel sheet SPCC**		
	Others	Carbon Steel STPG370, Cast Iron FC250, others		
Heating Method		Spiral Tube Heat Exchanger		
Applicable Hot Water Supply Piping		Non-recirculating / Recirculating		
Abnormal Heating Prevention Feature		Detects minute changes in hot water flow or abnormalities in temperature and shuts off the steam supply, or circulates cold water from a buffer to decrease temperature.		
Installation Location		Indoors		

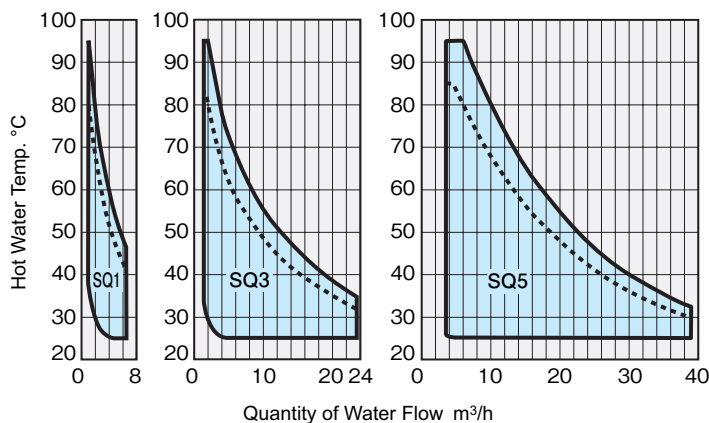
\*with water

\*\*Stainless steel available as option

## Thermal Capability

Cold Water Temp : 20°C

Supply Steam Pressure \*\*\* 0.3MPaG — 0.6MPaG



When non-recirculating method is used, if used for baths, handwashing or anywhere people may come in contact with hot water, install a thermostat-equipped hot/cold water mixing device. Additionally, when used in applications that may fall below the minimum required flow rate, a hot water recirculation system is required. Please contact us for more information.

# Using Steam as a Heat Source

# Clean Hot Water Quick and Easy

**Steam Aqua** is a steam-fired instantaneous water heater. Its simple operation allows you to quickly produce ample quantities of hot water. By utilizing a high-efficiency Spiral Tube heat exchanger, it maintains a stable supply of 95°C water.



Spiral tube heat exchanger

30 to  
95°C Hot  
Water

## Clean/Potable Hot Water

Because indirect heating means that steam and water never mix, and stainless steel is used for wetted parts, no rust or foreign material will get mixed into the hot water supply. Clean potable water can be heated and supplied as is, without contamination. So it's safe for cleaning electronic materials or for use in food related applications.

It is Certified to conform to Japanese water supply law.



## Simple Speedy Supply

Using **Steam Aqua** is really easy. Flip a switch to start automatic operation; turn a dial to select the desired temperature for hot water supply. Hot water at the correct temperature will be supplied in just 50 ~ 60 seconds. For safety, an abnormal heating prevention feature is included.

Also a built-in PowerTrap (steam trap/mechanical pump) enables easy condensate recovery.

- 1 Just push the start switch
- 2 Turn the dial to set temperature
- 3 Hot water is ready for use



## Compact, High Capacity

The entire system is packaged into a space-saving footprint of only 0.6m<sup>2</sup>. Because it does not use fire, or emit any exhaust gases, you have a large degree of freedom for installation locations.

With a supply capacity of up to 500 kW class, **Steam Aqua** is able to meet all of your needs.



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\*Ensure a minimum of 50 cm of maintenance space left clear on the sides and front of the system.

System Footprint **0.6m<sup>2</sup>**

- Heating, sterilization and manufacture of food products
- Process heating for chemical and pharmaceutical manufacturing
- Heating and hot water for buildings, factories and hospitals
- Cleaning, handwashing, etc.

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Manufacturer  
**TLV® CO., LTD.**  
Kakogawa, Japan  
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001



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