# SteamAqua®

# Steam-Fired Instantaneous Water Heater MODEL SQ-C01

## COMPACT INSTANTANEOUS WATER HEATER WITH SIMPLE OPERATION

## Features

**Compact, steam-fired water heater that quickly produces hot, clean water for direct supply in applications such as cleaning, hand washing and food production. Compliant with the Water Supply Act (Japan).**

1. Compact wall-mounted water heater using steam as a heat source.
2. No electricity and gas are required, with easy installation of only steam and water piping.
3. Desired amount of hot water will be supplied when and where it is needed.
4. Indirect heating with steam allows water to be heated and supplied cleanly as is, without contamination.
5. Two-stage mixing prevents the supply of abnormally hot water.
6. The spiral-tube design prevents trouble such as clogging of the heat exchanger.


## Specifications

| Model | | | SQ-C01 | |
|---|---|---|---|---|
| Type | | | Standard | High Temperature |
| Thermal Capability Class | | | 42 kW | |
| Temperature Adjusting Method | | | Dial Type | |
| Temperature Setting Range | | | 30 to 50 °C | 40 to 65 °C |
| Maximum Operating Pressure (MPaG) PMO | | | 0.4 MPaG (Adjustable steam pressure between secondary side of internal PRV and primary side of steam trap) | |
| Maximum Operating Temperature (°C) TMO | | | 152 °C | |
| Required Utilities | Steam* | | 0.2 to 0.7 MPaG | |
| | Cold Water (inflow) | | 0.1 to 0.4 MPaG Temperature: 5 to 28 °C | |
| Connection (mm) | Cold Water | Inlet | 15 ASME Class 150RF | |
| | Hot Water | Outlet | 15 ASME Class 150RF | |
| | Steam | Inlet | 15 ASME Class 150RF | |
| | Condensate | Outlet | 15 ASME Class 150RF | |
| | Water Safety Valve | Outlet | Rc(PT)$^{3}/_{8}$ | |
| Heating Method | | | Spiral Tube Heat Exchanger | |
| Applicable Hot Water Supply Piping | | | Single pass** / Recirculating | |
| Installation Location | | | Indoor / Outdoor | |
| Applicable Fluids | | | Heating: Steam, Heated: Water | |

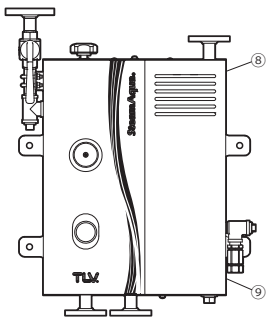
* When steam supply pressure to the unit is set by using a pressure reducing valve with a primary pressure exceeding 0.7 MPaG, make sure to install a safety valve on the secondary side of the pressure reducing valve. 1 MPa = 10.197 kg/cm$^2$

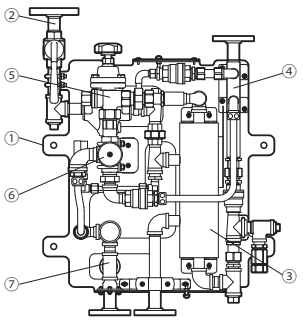
** When single pass method is used, if used for baths, handwashing or anywhere people may come in contact with hot water, install a thermostat-equipped hot/cold water mixing device. Additionally, when used in applications that may fall below the minimum required flow rate, a hot water recirculation system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

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):
Maximum Allowable Pressure (MPaG) PMA: 0.7 (steam piping and water piping)
Maximum Allowable Temperature (°C) TMA: 171 (steam piping), 70 (cold water piping), 110 (hot water piping)

**⚠ CAUTION** To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

| No. | Description |
|---|---|
| ① | Base Unit |
| ② | Steam Supply Unit (Pressure Reducing Valve) |
| ③ | Heat Exchanger Unit |
| ④ | Water Inlet Piping Unit |
| ⑤ | Premixing Unit |
| ⑥ | Mixing Unit |
| ⑦ | Hot Water Outlet Unit |
| ⑧ | Cover |
| ⑨ | Nameplate (Sticker) |

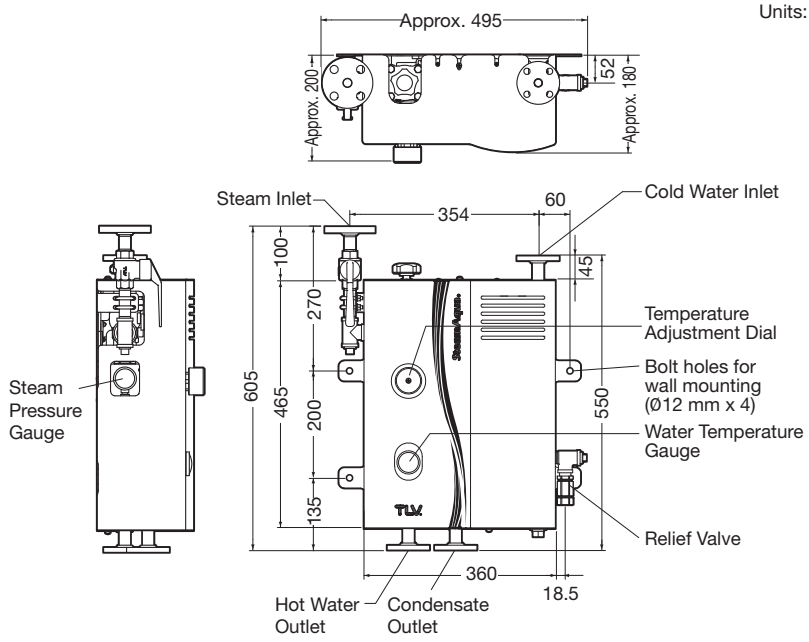


## Dimensions

● **SQ-C01** Flanged

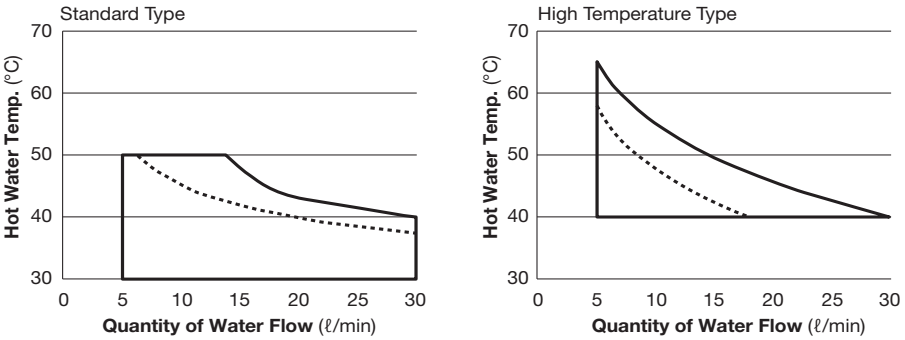
Units: mm




Approx. weight: When empty: 22 kg
When filled with water: 23 kg

## Thermal Capability

Cold Water Temperature: 20 °C
Supply Steam Pressure: ------- 0.2 MPaG
——— 0.4 MPaG




NOTE: The thermal capability charts shown here are for reference only.
Thermal capability will vary with steam pressure and water inlet temperature.
Consult TLV about actual selection as well as thermal capability.

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

ISO 9001
ISO14001



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Products for intended use only.
Specifications subject to change without notice.