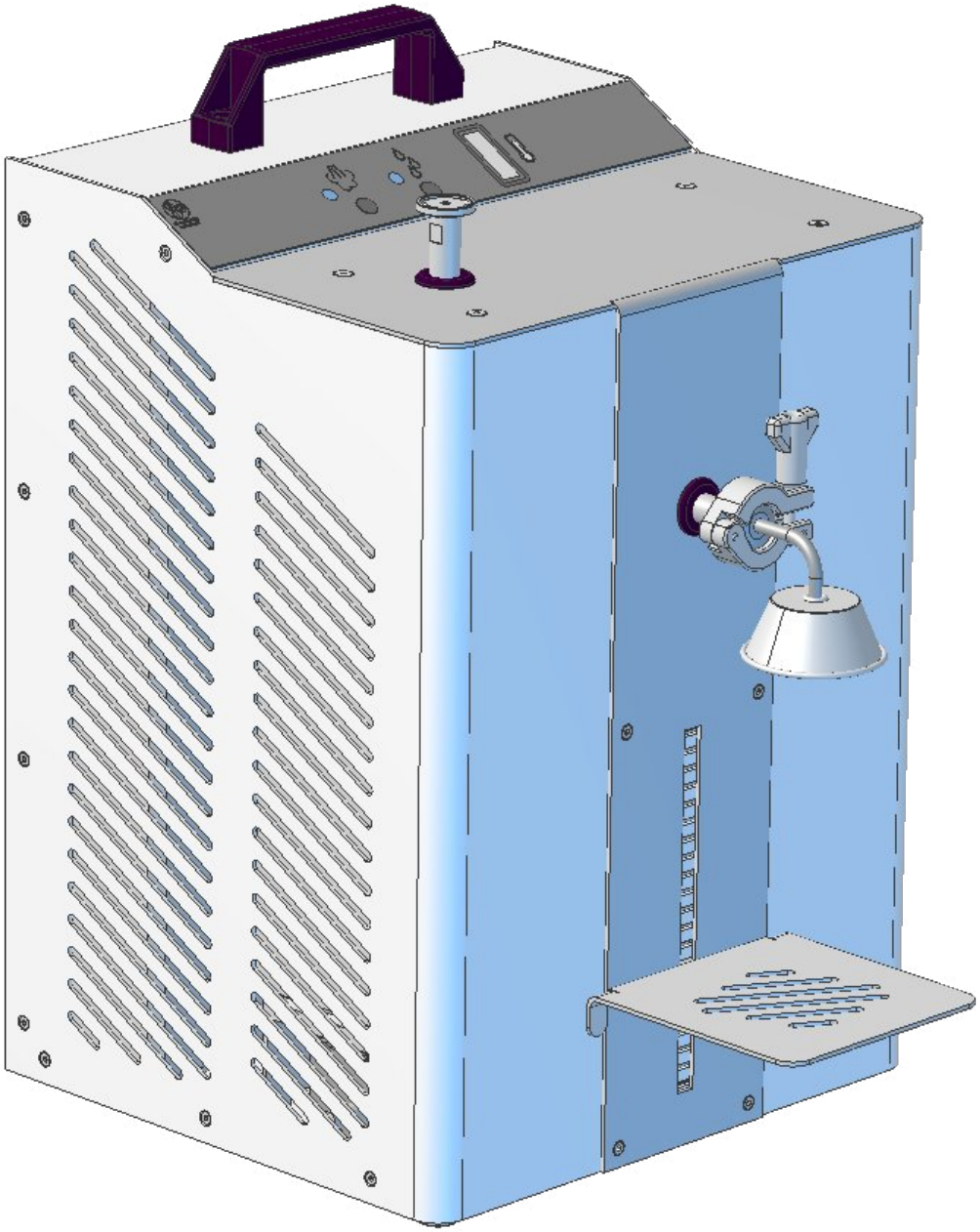
Steam
Quality
Innovations

SQI-SC1



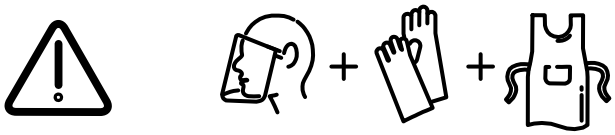
Hygienic Air Cooled Steam Sampler

User Manual

100 - 240V AC

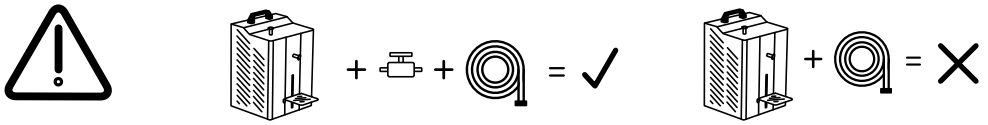
< 6 Barg < 165ºC

< 30ºC

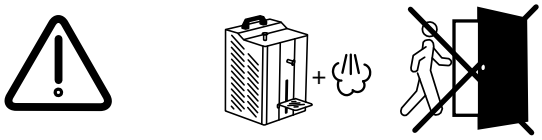


Wear appropriate safety gear

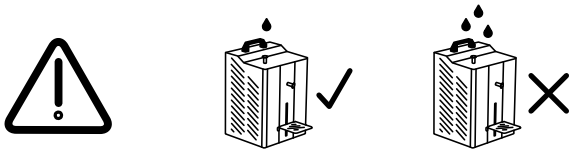
Steam will make parts HOT



Use an isolation valve



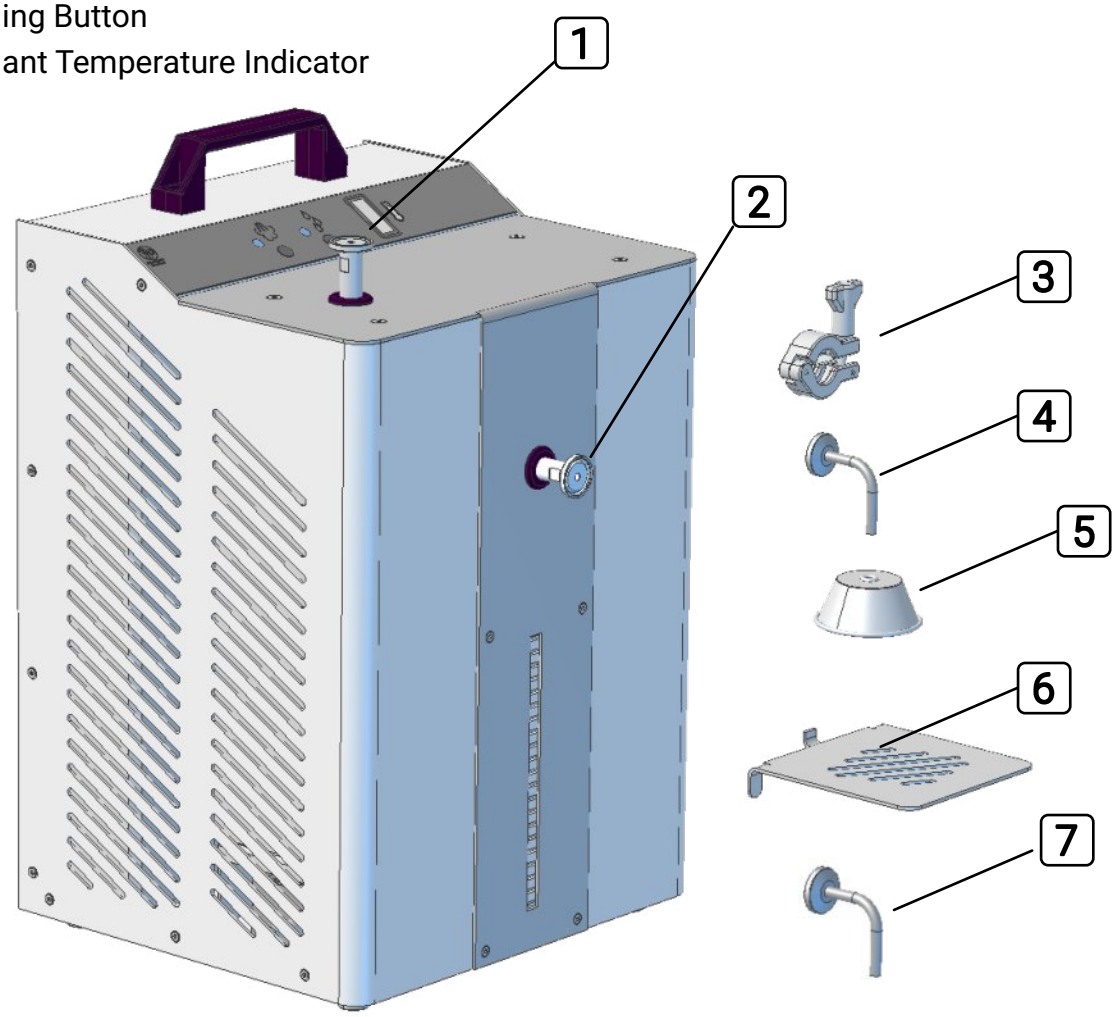
Do not leave unattended while operating

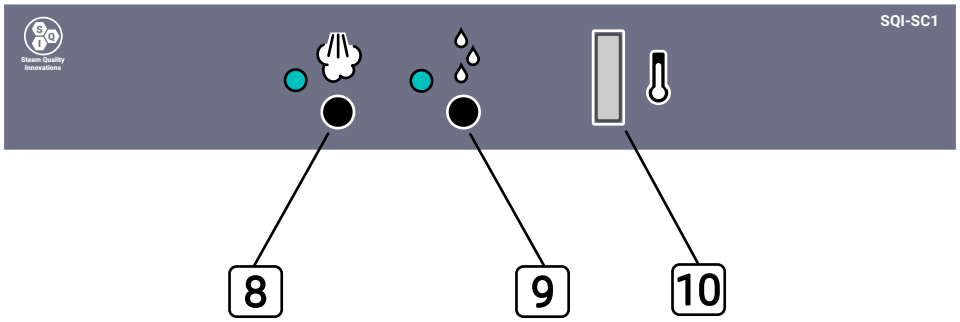


Keep dry

support@steamqualityinnovations.com

1. Steam Inlet
2. Condense/Steam Outlet
3. Clamp
4. Spout
5. Dust Shield
6. Support Tray
7. Sterilize In Place Spout
8. Free Steaming Button
9. Cooling Button
10. Coolant Temperature Indicator





Usage Instructions

1. WARNING! Wear appropriate protective apparel
2. It is highly recommended that a steam valve is fitted to the SC1 inlet. You will need to control the steam flow during operation to prevent the unit getting too hot
3. Place the unit on a stable surface
4. Ensure the outlet spout and dust shield are in place
5. Set the support tray to the right hight for the collection vessel. **Note:** It is recommended that the dust shield is close to the collection vessel opening
6. Steam sampling will generate water so ensure you have a suitable system to capture the excess. A shallow tray to sit the SC1 in and a metal jug or some other method to capture any spillage is recommended
7. Connect the steam hose to the supply to be tested, ensuring the inlet valve is closed
8. Power up the SC1 and ensure it starts with no warnings
9. Open the steam feed supplying the steam feed hose
10. Decide if you want to steam flush the SC1. If so then leave in steam flush mode and open the the inlet valve slowly. You will not need to open it fully, just enough to steam flush the pipe work
11. When you want to condense the steam, press the cooling button, it will now fill the sample chamber with coolant
12. Constantly monitor the coolant temperature indicator and adjust the steam inlet valve to prevent it entering the Red zone

    WARNING DO NOT LEAVE UNTENDED. In the event of overheat the unit will exit cooling mode and it will revert back to free steaming. This will mean steam will start to issue from the outlet

13. When finished sampling turn off the steam flow at the appropriate valves. Place a jug under the spout and remove the valve/hose from the steam inlet fitting. The unit will slowly self drain. To ensure the internal pipework is dry blow through piping with compressed air

Electrical Notes

The SQI-SC1 is electrically powered. The SC1 does not have an onboard power switch, isolation is achieved by removing the plug from the mains outlet.
All voltages > 12v are isolated and waterproofed. However the SQI-SC1 is not wash down resistant. Care and attention must be made to prevent water entering the unit

Safety Notes

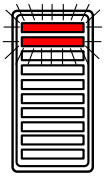
The unit is designed to cool steam. Piping and fittings containing steam are hot and steam issuing during any steam flushing is VERY HOT. Utmost care must be taken to prevent burns.
Water resilient, heavy duty, gauntlet style gloves are recommend. The resultant cooled condense may also be hot

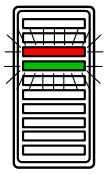
Steam flushing and Sterilize in Place

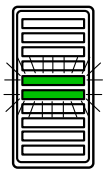
During any steam flushing a lot of wet steam will be issuing from the outlet. Not only is wet steam very likely to burn human skin it also generates a lot of water spray. An alternative and better system is to use the Sterilize In Place Spout. The outlet has a small dia hole and enables the coil to reach feed pressures but still drain the coil of condense.
To use run until mainly steam is issuing from the spout, then time to get the required FO value before isolating the steam and swapping to the normal spout. We recommend that the steam is directed into a metal jug.

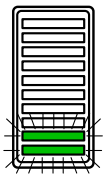
System Faults

The SQI-SC1 constantly monitors the following:-
Coolant Overheat: Fans for rotation: Temperature Sensors are functioning: Coolant level in the tank:


Coolant Over Temperature


Fan Failure


Temperature Probe Failure


Coolant Level Low

If there is a fault found the unit will go into fault mode and display the warning indicating the fault type.
NOTE more than one fault may be present and it warns only of the first found.
To clear any faults, power cycle the unit.
To clear an Coolant Over Temperature Fault, hold the Steam Flush and Cooling button down for 5s

In fault mode the cooling system is shut down. This will result in the unit will put in Free Steaming mode.

Monitor the system all the time, DO NOT LEAVE UNATTENDED!