

Sample Cooler

Operating Instructions





Description

Used for the safe and accurate sampling of steam and hot water and systems Aqua sample coolers provide a means to safely cool a steam or hot water sample without the concentrating effect caused by flash steam. The Aqua sample cooler is usually supplied fitted with a 32 bar gate valve with ¼" BSP female inlet.

The outlet must always be left open to the atmosphere. A valve should never be fitted to the sample outlet point as this could pressurise the pipework in the bowl.

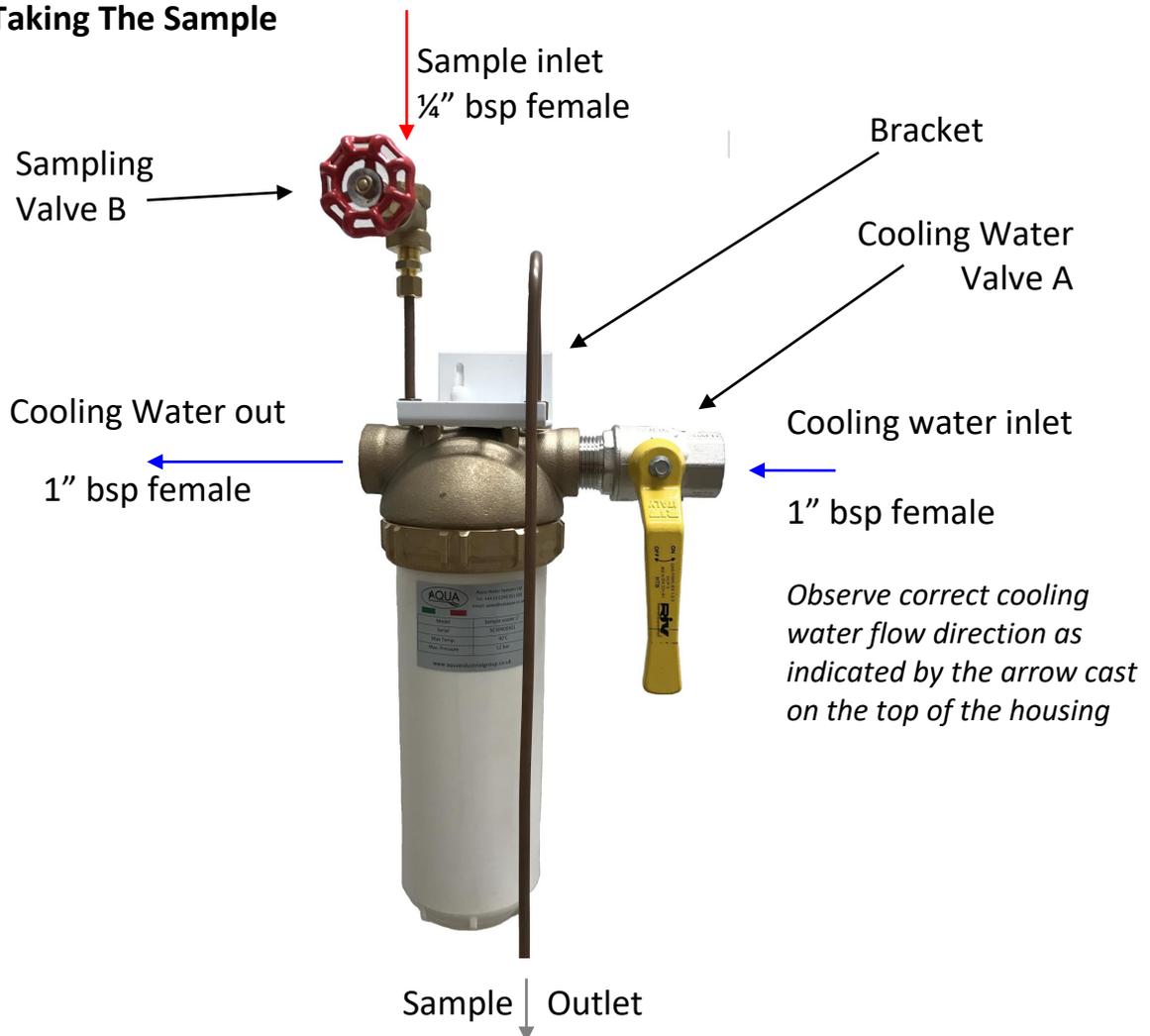
Installation

The sample cooler should be fitted by a specialist pipe fitter and securely mounted via its fixing bracket to a wall. If the bracket is not to be used and it is fitted directly to the pipework or boiler, extra support may be required in the form of a bracket to the floor or a pipe support rail. A suitably rated sampling valve (for both temperature and pressure), should be fitted between the cooler and the boiler / hot water system. If the sampler is any distance from the hot water source, it is recommended that 2 valves be fitted one at the source, and one for convenient and safe flow control at the sampler.

1) Starting

Open the cooling water flow control valve (A) slowly and allow cold water to run to drain for a period to cool the sampler.

2) Taking The Sample



Open the sampling valve (B) and allow hot water to run until any residue from the last sampling has been purged, and a fresh sample arrives. This 'old' residual sample water should be rejected, and not allowed to influence the new sample. When fresh (hot) sample water reaches the cooler, adjust the sample and cooling water flow rates as necessary to ensure a fully cooled sample without flashing steam can be safely collected.

3) Shutting down the sampler

Shut the sampling (hot water) valve (B) first, whilst the cooling water is still running, and allow it to continue flowing until the metal parts of the sampler are sufficiently cooled right down. You may now turn off the cooling water (valve A). Check that all valves are securely closed after use.



WATER SYSTEMS

AQUA WATER SYTEMS LTD

Unit 135 Oak Drive, Hartlebury Trading Estate, Hartlebury, Worcestershire, DY10 4JB

Tel 01299 251050 Fax 01299 253704 email sales@askaqua.co.uk