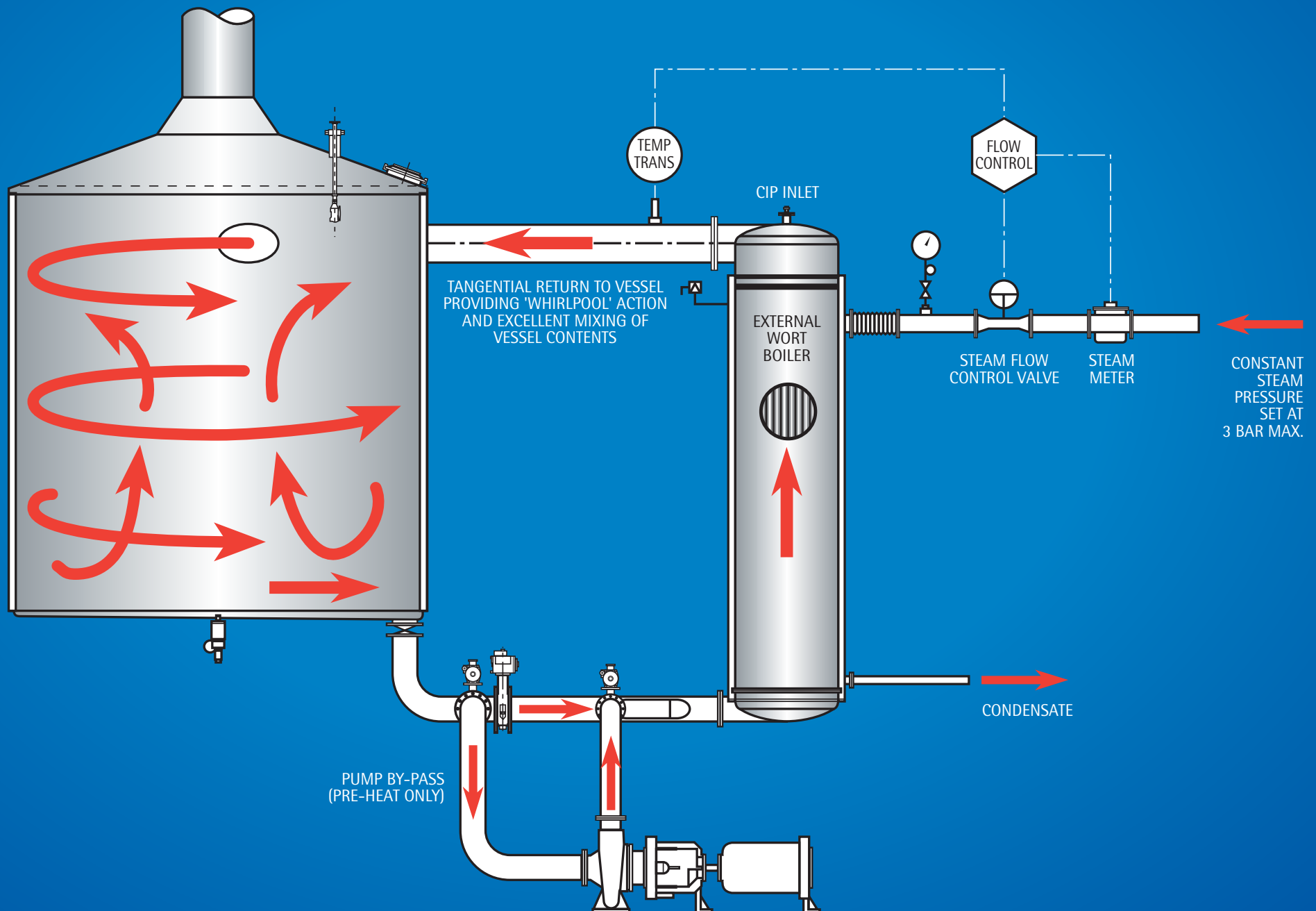


Symphony – Repeatable Control



Repeatable Control - Brew after Brew

Heating Phase

Throughout this phase there is the greatest potential for fouling, burn-on and colour pick-up.

The EWB wort outlet temperature is controlled by the temperature controller. When recipe pre-heat start volume is attained, the wort is pre-heated up to the pre-heat target temperature (99°C), by ramping the temperature setpoint from its initial (actual) temperature up to target temperature, at a recipe ramp rate (over the fill period). The aim is to achieve the target temperature at or before completion of filling. This prevents excessive steam flows, reduces fouling and prevents premature evaporation. Throughout this phase the pumped route is open until the thermosyphon is established.

Boil Phase

At the start of this phase the steam totaliser is set to zero, and the mass flow of steam necessary to achieve the desired evaporation rate is metered into the EWB, to ensure consistent heat treatment to the wort on every brew.

Cleaning Phase

The above method of control combined with the system design, minimises fouling and extends the number of brews between CIP.

Units in operation are achieving up to 40 brews between CIP.

Cleaning takes place when the unit is no longer capable of condensing the steam flow demand set by the recipe.



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