

HOW TO INCREASE THE CAPACITY OF YOUR MEURA 2001

The Meura2001 is recognised throughout the world as this technology can simultaneously achieve laboratory yield, 14 brews/day, while producing a bright and high gravity wort.

Being a partner for many brewers, Meura is very familiar with the brewing challenges they face. In recent years we have observed several trends like brewhouse capacity becoming the bottle neck in the production process of more and more brewers, high gravity brewing becoming a standard, sugar syrups being replaced by malt or other grains, With these trends in the brewhouse process, Meura has developed a set of solutions to support brewers:

- ▶ **THE TECHNOLOGICAL AUDIT**
- ▶ **THE MODIFIED REAR CAISSON**
- ▶ **THIN CHAMBERS**

TECHNOLOGICAL AUDIT

Meura's Technologies & Services department houses a team of experienced brew-masters and process engineers. Their unique collection of knowledge enables them to perform technological audits that give you a detailed view of the current operational state of your installation and provide guidance towards performance improvements.

These audit focuses are tailored to meet your targets: increasing throughput, improving extraction, reducing consumption, implementing new processes... You name it, and we will put our knowledge and experience to work towards your end goal.

A typical request is to increase brewhouse capacity while keeping a good extract yield. Past experiences show the value of technological audits. The results depend on the particular case, but often brewhouse capacity can be increased by a further 1-2 brews/day.

In most cases this entails process optimization of the Meura2001, integration of the Ilobox and improvement in up-stream process conditions. This is the "low hanging fruit" and the first step to be considered.



MODIFIED REAR CAISSON

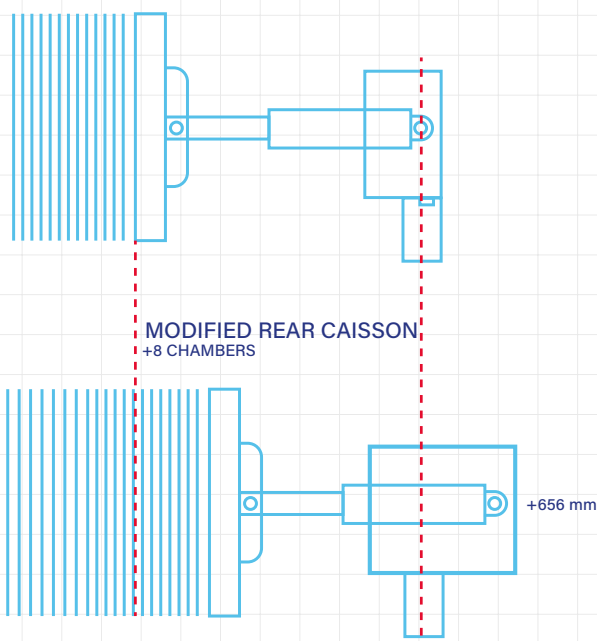
A **Meura2001** can be extended by installing longer side beams and adding chambers, but such modification often requires challenging modifications to the structural works and spent grains hopper and leads to a major brewhouse shut-down to perform the work.

As an alternative, Meura has developed the "modified rear caisson" for the Meura2001.

By installing this rear caisson, nine additional Thin Hybrid chambers can be added while maintaining the load on the same position of the original structural works. The further modification takes just a few days. With nine extra chambers the load (= malt throw) can be increased by a nominal 790 kg malt or malt equivalent, while keeping the same engineered structure.

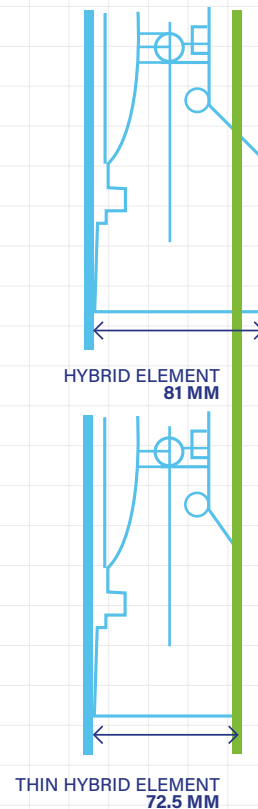
Calculated to a beer density of 12°P, it represents a capacity brew increase of 25,000 hl beer per month (300,000 hl installed capacity per year)! Most of our customers who install a modified rear caisson maintain their cold wort volume and increase wort density. This means that investment for additional fermenters is not required.

The modified rear caisson: a low cost solution to quickly increase the capacity of your brewhouse!



THIN CHAMBERS

THIN chambers are the thinner version of the classic Hybrid elements and are especially developed to increase the capacity of an existing Meura2001. This retro-fit allows for a 10% increase of the Meura2001 nominal load with almost no other modifications. Spares and wear parts are identical between the two versions.



This solution has several advantages:

- ▶ Increasing of the number of chambers on the same frame (no other modification) resulting in a 10% increase of the nominal load
- ▶ No change in membranes and cloths compared with the previous version
- ▶ A short production shut-down of only one day

COMBINATION:

In order to increase your capacity even further, it is also possible to combine the two solutions above: Thin Hybrid chambers + Rear Caisson.

In this way, the capacity increase of your Meura2001 can reach 20%!