

Hops Rocket Savings Overview

The Hop rocket has many benefits ranging from;

- Safety
- Improved Hop flavour enhancement
- Reduced Hop quantities
- Reduced DO levels and increased shelf life/product stability
- Optionality for integration of other additions/ingredients
- Significant reduction in Dry Hopping times

The above ultimately compiles to afford formidable benefits to your production facility but possibly the most apparent benefit of integrating the Hop Rocket into operations is the ability to significantly reduce production turn times.

Below is an Example examining this benefit in kind and proving the Hop rocket to be an essential piece of equipment in the modern brewing facility and worthy investment.

Take a medium sized craft brewery operating a 25HL Brewhouse and housing a total cellar capacity of 200HL consisting of x8 25HL FV's operating under the following conditions:

Standard Model:

A 14-day Tank residency time consisting of:

- A 7-day Fermentation cycle.
- A 4-day Dry Hopping cycle.
- A 3-day Clarification cycle.

The above Cellar conditions can allow for a respectable output of **5200HL** per year with the brewhouse turning a total of 208 turns per year. With each FV turning 26 Times per year.

If brewery sales are based at £250/HL per year this equates to potential gross earnings of **£1,300,000** per year.

Standard model plus Hop Rocket:

Under the above and standard conditions, the Hop rocket has the potential to reduce dry hopping times from **4 days** down to as little as **4 hours**. This immediately can reduce operating conditions of the cellar to the following:

A 11-day Tank residency time consisting of:

- A 7-day Fermentation cycle.
- A 1-day Dry Hopping cycle.
- A 3-day Clarification cycle.

The above cellar conditions can now yield an output increase of up to **6600HL** per year with the brewhouse now turning a total of 264 turns per year. With each FV now turning 33 times per year.

Immediately we can see a production output increase of 26% equating to a volume increase of **1400HL** per year which equates to an annualised increase of potential gross earning to **£350,000** based on the above stated cost £250/HL. Increasing potential gross earnings to a total of **£1,650,000** per year.

Conclusion:

If the equivalent increase was applied via traditional methods of expansion for example; an additional 3 FV's would be required to increase Brewhouse turn count to 264 turns per year and annualised output to 6600HL per year! In addition to the potential space saving possibilities the Hop Rocket stands alone a formidable investment based on just one year of integrated production.

Costings:

| | |
|--|-----------------------|
| x1 Hop Rocket (25KG) | £15000 |
| x3 Fermentation Vessel (25HL) | £39000 |
| Potential savings utilising Hop Rocket integration vs tradition expansion method | <u>£24000</u> |
| Potential increase in gross earnings utilising Hop Rocket integration | <u>£350000</u> |