# **APA** centenial

- Gravity 10.7 BLG
- ABV ----
- IBU **22**
- SRM **3.5**
- Style American Pale Ale

## **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 27.5 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 32.2 liter(s)

# **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 20 liter(s)
- Total mash volume 25 liter(s)

### **Steps**

- Temp 64 C, Time 60 min
  Temp 77 C, Time 10 min

# Mash step by step

- Heat up 20 liter(s) of strike water to 69.5C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 10 min at 77C
- Sparge using 17.2 liter(s) of 76C water or to achieve 32.2 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(100%)</i>	80 %	5

### Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Centennial	50 g	15 min	9.5 %
Whirlpool	Centennial	50 g	0 min	9.5 %
Dry Hop	Citra	60 g	3 day(s)	12 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis