### **APA 72/73**

- Gravity 14.3 BLG
- ABV 5.9 %
- IBU 47
- SRM **7.7**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 46 liter(s)
- Trub loss 5 %
- Size with trub loss 52.9 liter(s)
- · Boil time 60 min
- Evaporation rate 8 %/h
- Boil size 66.1 liter(s)

# **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 5.4 liter(s) / kg
- Mash size 71 liter(s)
- Total mash volume 84.2 liter(s)

#### **Steps**

• Temp 69 C, Time 60 min

### Mash step by step

- Heat up 71 liter(s) of strike water to 73.5C
- Add grains
- Keep mash 60 min at 69C
- Sparge using 8.3 liter(s) of 76C water or to achieve 66.1 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	10 kg <i>(74.3%)</i>	82 %	4
Adjunct	Rice Hulls	0.3 kg (2.2%)	1 %	0
Grain	Oats, Flaked	3 kg <i>(22.3%)</i>	80 %	2
Grain	Black Barley (Roast Barley)	0.15 kg <i>(1.1%)</i>	55 %	985

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	100 g	60 min	10.7 %
Whirlpool	Perle	100 g	15 min	6.2 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
WLP518 - Opshaug Kveik Ale	Ale	Slant	50 ml	White Labs

#### **Extras**

Туре	Name	Amount	Use for	Time
Fining	Whirlfloc	1 g	Boil	15 min

## Notes

