# **APA 17/18**

- Gravity 15.2 BLG
- ABV 6.3 %
- IBU **79**
- SRM **4.6**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 48 liter(s)
- Trub loss 5 %
- Size with trub loss 55.2 liter(s)
- Boil time 60 min
- Evaporation rate 8 %/h
- Boil size 68.9 liter(s)

### **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 60 liter(s)
- Total mash volume 75 liter(s)

#### **Steps**

• Temp 70 C, Time 60 min

### Mash step by step

- Heat up 60 liter(s) of strike water to 76.3C
- Add grains
- Keep mash 60 min at 70C
- Sparge using 23.9 liter(s) of 76C water or to achieve 68.9 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	12 kg <i>(80%)</i>	80 %	5
Grain	Vienna Malt	3 kg <i>(20%)</i>	78 %	8

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	100 g	60 min	16.5 %
Boil	Columbus/Tomahawk/Zeus	100 g	10 min	15.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Farmgarden	Ale	Slant	50 ml	Lallemand