# AAA ver 2,0

- Gravity 14.9 BLG
- ABV ----
- IBU 28
- SRM **12.2**
- Style American IPA

### **Batch size**

- Expected quantity of finished beer 23 liter(s)
- Trub loss 2 %
- Size with trub loss 23.7 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 28.6 liter(s)

### **Mash information**

- Mash efficiency 86 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

### **Steps**

- Temp 50 C, Time 10 min
  Temp 62 C, Time 40 min
  Temp 72 C, Time 20 min
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up 16.5 liter(s) of strike water to 55C
- Add grains
- Keep mash 10 min at 50C
- Keep mash 40 min at 62C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 17.6 liter(s) of 76C water or to achieve 28.6 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	3 kg <i>(54.5%)</i>	74.84 %	13
Grain	Pilsner (Weyermann)	2 kg <i>(36.4%)</i>	82.23 %	7
Grain	Carahell (Weyermann)	0.5 kg <i>(9.1%)</i>	75.74 %	92

### **Hops**

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	9.5 %
Dry Hop	Citra	25 g	7 day(s)	12 %
Dry Hop	Fuggle	25 g	7 day(s)	4.3 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Gozdawa Pure Ale Yeast 7	Ale	Dry	11 g	