# ppa 389

- Gravity **13.1 BLG**
- ABV 5.3 %
- IBU **38**
- SRM 3.8
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 1 %
- Size with trub loss 25.3 liter(s)
- Boil time 60 min
- Evaporation rate 5 %/h
- Boil size 27.8 liter(s)

## **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 24 liter(s)
- Total mash volume 30 liter(s)

#### **Steps**

• Temp 67 C, Time 90 min

### Mash step by step

- Heat up 24 liter(s) of strike water to 72.9C
- Add grains
- Keep mash 90 min at 67C
- Sparge using 9.8 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	6 kg (100%)	81 %	4

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	marynka	50 g	30 min	8 %
Boil	Izabella	50 g	15 min	4 %