# **ŻYTNIA APA II**

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU 27
- SRM **5.5**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

### **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.2 liter(s) / kg
- Mash size 12.2 liter(s)
- Total mash volume 16 liter(s)

### **Steps**

- Temp 62 C, Time 30 min
  Temp 72 C, Time 30 min
- Temp 78 C, Time 5 min

## Mash step by step

- Heat up 12.2 liter(s) of strike water to 68.5C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 5 min at 78C
- Sparge using 16.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.2 kg <i>(27.9%)</i>	80 %	5
Grain	Żytni	2.5 kg <i>(58.1%)</i>	85 %	8
Adjunct	Płatki owsiane	0.5 kg <i>(11.6%)</i>	85 %	3
Grain	Strzegom Karmel 150	0.1 kg <i>(2.3%)</i>	75 %	150

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %
Boil	Mosaic	10 g	15 min	10 %
Boil	Citra	15 g	0 min	12 %
Dry Hop	jaryllo	10 g	7 day(s)	12 %
Dry Hop	amarillo	10 g	7 day(s)	10 %
Dry Hop	Mosaic	10 g	5 day(s)	10 %
Dry Hop	Amarillo	10 g	5 day(s)	9.5 %

#### **Yeasts**

Name Type	Form	Amount	Laboratory
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FM50 Kłosy Kansas	Wheat	Slant	1000 ml	Fermentum Mobile
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