# **ŻYTNIA IPA**

- Gravity 15.4 BLG
- ABV 6.5 %
- IBU **75**
- SRM **7.4**
- Style Rye IPA

#### **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 4 %
- Size with trub loss 27 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.8 liter(s)

## **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.3 liter(s) / kg
- Mash size 24.8 liter(s)
- Total mash volume 32.3 liter(s)

#### **Steps**

- Temp 64 C, Time 50 min
  Temp 72 C, Time 15 min
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up 24.8 liter(s) of strike water to 70.7C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 13.5 liter(s) of 76C water or to achieve 30.8 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	5 kg <i>(66.7%)</i>	80 %	7
Grain	Żytni	2 kg (26.7%)	85 %	8
Grain	Caraamber	0.5 kg (6.7%)	75 %	59

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	30 g	60 min	13.4 %
Boil	Equinox	15 g	30 min	13.4 %
Boil	Centennial	15 g	30 min	9.7 %
Boil	Equinox	15 g	15 min	13.4 %
Boil	Centennial	15 g	15 min	9.7 %
Boil	Equinox	20 g	5 min	13.4 %
Boil	Centennial	20 g	5 min	9.7 %
Dry Hop	Equinox	30 g	5 day(s)	13.4 %
Dry Hop	Centennial	30 g	5 day(s)	9.7 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis