# Rye IPA

- Gravity 17.3 BLG
- ABV 7.4 %
- IBU **58**
- SRM **5.1**
- Style Rye IPA

#### **Batch size**

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

#### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.3 liter(s)
- Total mash volume 16.4 liter(s)

### **Steps**

- Temp **66 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp 78 C, Time 10 min

### Mash step by step

- Heat up 12.3 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 40 min at 66C
- Keep mash 20 min at 72C
- Keep mash 10 min at 78C
- Sparge using 7 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg <i>(73.2%)</i>	81 %	4
Grain	Żytni	1 kg (24.4%)	85 %	8
Grain	Weyermann - Carapils	0.1 kg <i>(2.4%)</i>	78 %	4

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	45 min	11 %
Aroma (end of boil)	Equinox	50 g	5 min	13.1 %
Whirlpool	Amarillo	50 g	0 min	9.5 %
Dry Hop	Amarillo	50 g	3 day(s)	9.5 %
Dry Hop	Equinox	50 g	3 day(s)	13.1 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Slant	100 ml	Fermentis

### **Extras**

Туре	Name	Amount	Use for	Time
Water Agent	gips	4 g	Mash	60 min