WAWER IPA

- · Gravity 15 BLG
- ABV ----
- IBU **43**
- SRM **4.7**
- Style American IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21.2 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.5 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 2.8 liter(s) / kg
- Mash size 15.4 liter(s)
- Total mash volume 20.9 liter(s)

Steps

- Temp 62 C, Time 10 min
 Temp 66 C, Time 45 min
 Temp 72 C, Time 45 min
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 15.4 liter(s) of strike water to 69.5C
- Add grains
- Keep mash 10 min at 62C
- Keep mash 45 min at 66C
- Keep mash 45 min at 72C
- Keep mash 10 min at 78C
- Sparge using 15.6 liter(s) of 76C water or to achieve 25.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	ЕВС
Grain	Pilzneński	5.5 kg <i>(100%)</i>	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	45 min	13.5 %
Aroma (end of boil)	Magnum	5 g	10 min	13.5 %
Boil	Marynka	5 g	45 min	10 %
Aroma (end of boil)	Marynka	20 g	10 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale