Full Aroma Hops

- Gravity 12 BLG
- ABV ----
- IBU **49**
- SRM 3.8
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 90 min
- Evaporation rate 20 %/h
- Boil size 31.2 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 14.8 liter(s)
- Total mash volume 19 liter(s)

Steps

- Temp 40 C, Time 0 min
 Temp 61 C, Time 10 min
 Temp 71 C, Time 45 min

- Temp **75** C, Time **10** min

Mash step by step

- Heat up 14.8 liter(s) of strike water to 42.9C
- Add grains
- Keep mash 0 min at 40C
- Keep mash 10 min at 61C
- Keep mash 45 min at 71C
- Keep mash 10 min at 75C
- Sparge using 20.6 liter(s) of 76C water or to achieve 31.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.22 kg <i>(100%)</i>	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	24 g	60 min	13.5 %
Boil	Lublin (Lubelski)	36 g	15 min	4 %
Boil	Lublin (Lubelski)	24 g	5 min	4 %

Yeasts

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

Notes

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