Czerwony Baron

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU **42**
- SRM **16.2**
- Style American Amber Ale

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.7 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.9 liter(s)
- Total mash volume 21.2 liter(s)

Steps

- Temp 66 C, Time 45 min
 Temp 72 C, Time 15 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 15.9 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 45 min at 66C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 17.1 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.3 kg (81.1%)	81 %	4
Grain	Pszeniczny	0.3 kg <i>(5.7%)</i>	85 %	4
Grain	Żytni	0.5 kg (9.4%)	85 %	8
Grain	Caraaroma	0.05 kg <i>(0.9%)</i>	78 %	400
Grain	Extra black	0.15 kg (2.8%)	65 %	1400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	20 g	60 min	10 %
Boil	Mosaic	25 g	15 min	10 %
Boil	Simcoe	25 g	5 min	13.2 %
Boil	Amarillo	25 g	5 min	9.5 %
Dry Hop	sabro	30 g	4 day(s)	11 %
Dry Hop	Citra	50 g	4 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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Safale S-04	Ale	Slant	150 ml	Safale