Bitter Pokazy

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU 22
- SRM **10.3**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 68 C, Time 70 min
 Temp 76 C, Time 5 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 76C
- Add grains
- Keep mash 70 min at 68C
- Keep mash 5 min at 76C Sparge using 18 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.5 kg (81.8%)	81 %	4
Grain	Cara Crystal	0.5 kg (9.1%)	79 %	150
Grain	Caramunich® typ I	0.5 kg (9.1%)	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	30 g	60 min	4.5 %
Boil	Amarillo	20 g	15 min	9.5 %
Aroma (end of boil)	Fuggles	30 g	0 min	4.5 %
Aroma (end of boil)	Amarillo	40 g	0 min	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM10 O czym szumią wierzby	Ale	Liquid	1000 ml	

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirflock	7 g	Boil	70 min

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