Kumburak 13°

- Gravity 13.1 BLG
- ABV ----
- IBU **37**
- SRM **6.3**
- Style Bohemian Pilsener

Batch size

- Expected quantity of finished beer 54 liter(s)
- Trub loss 5 %
- Size with trub loss 56.7 liter(s)
- Boil time 70 min
- Evaporation rate 5 %/h
- Boil size 62.9 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 24 liter(s)
- Total mash volume 32 liter(s)

Steps

- Temp 65 C, Time 20 min Temp 72 C, Time 50 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 24 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 20 min at 65C
- Keep mash 50 min at 72C
- Keep mash 10 min at 78C
- Sparge using 46.9 liter(s) of 76C water or to achieve 62.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	6.5 kg <i>(57%)</i>	82 %	4
Grain	Carahell	0.5 kg <i>(4.4%)</i>	77 %	26
Grain	Strzegom Wiedeński	1 kg (8.8%)	79 %	10
Liquid Extract	Bruntal	3.4 kg <i>(29.8%)</i>	81 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	35 g	60 min	11.5 %
Boil	lunga	35 g	60 min	11 %
Aroma (end of boil)	hallertau tradition	20 g	30 min	6.3 %
Aroma (end of boil)	Hallertau Mittelfrüh	20 g	5 min	3.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Liquid	30 ml	

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirfloc T	5 g	Boil	10 min