full aroma hops FAH

- Gravity 11.9 BLG
- ABV ---
- IBU **26**
- SRM **3.9**
- Style Bohemian Pilsener

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 0 %
- Size with trub loss 20 liter(s)
- Boil time 60 min
- Evaporation rate 5 %/h
- Boil size 23.1 liter(s)

Mash information

- Mash efficiency 78 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 16 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 62 C, Time 10 min
 Temp 72 C, Time 45 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 16 liter(s) of strike water to 67.3C
- Add grains
- Keep mash 10 min at 62C
- Keep mash 45 min at 72C
- Keep mash 5 min at 78C
- Sparge using 11.1 liter(s) of 76C water or to achieve 23.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4 kg (100%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	magnum	11 g	60 min	13 %
Boil	lublin	40 g	15 min	3.1 %
Boil	lublin	10 g	0 min	3.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale