Black Ipa 39/68

- Gravity 16.4 BLG
- ABV 6.9 %
- IBU 55
- SRM **25.6**
- Style Black IPA

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 27.5 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 27.4 liter(s)
- Total mash volume 35.2 liter(s)

Steps

- Temp **64 C**, Time **70 min** Temp **72 C**, Time **5 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 27.4 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 70 min at 64C
- Keep mash 5 min at 72C
- Keep mash 5 min at 78C
- Sparge using 12.1 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	6.25 kg <i>(76.9%)</i>	81 %	4
Grain	Strzegom Karmel 150	0.63 kg (7.7%)	75 %	30
Grain	Carafa II	0.63 kg <i>(7.7%)</i>	70 %	812
Grain	Biscuit Malt	0.31 kg <i>(3.8%)</i>	79 %	45
Sugar	Cukier brązowy	0.31 kg <i>(3.8%)</i>	%	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	40 g	60 min	8.5 %
Boil	Cascade	40 g	45 min	7.7 %
Boil	Fuggles	40 g	15 min	4.5 %
Boil	Cascade	40 g	1 min	7.7 %
Dry Hop	Cascade	20 g	4 day(s)	7.7 %
Dry Hop	Centennial	60 g	4 day(s)	10.5 %
Dry Hop	Fuggles	60 g	4 day(s)	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	150 ml	Fermentum Mobile