

# Black IPA Classic

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- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **33**
- SRM **36.4**
- Style **Black IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.6 liter(s)**
- Total mash volume **26.1 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **77 C**, Time **1 min**

## Mash step by step

- Heat up **19.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **30 min** at **72C**
- Keep mash **1 min** at **77C**
- Sparge using **13.3 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.8 kg (42.9%)	80 %	5
Grain	Viking Pilsner malt	1.6 kg (24.5%)	82 %	4
Grain	Viking Wheat Malt	1.2 kg (18.4%)	83 %	5
Grain	Strzegom Karmel 600	0.4 kg (6.1%)	68 %	800
Grain	Strzegom Czekoladowy ciemny	0.4 kg (6.1%)	68 %	800
Grain	Jęczmień palony	0.08 kg (1.2%)	55 %	1000
Grain	Strzegom Barwiący	0.04 kg (0.6%)	68 %	1300

## Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Amarillo	20 g	15 min	9.5 %
Aroma (end of boil)	Cascade	38 g	15 min	6 %
Aroma (end of boil)	Ekuanot	20 g	15 min	14 %