

Jaskolka (Black IPA 18 - Piwny Kraft)

- Gravity **18 BLG**
- ABV **7.7 %**
- IBU **103**
- SRM **24.6**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **7 %**
- Size with trub loss **19.8 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **24.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.9 liter(s)**
- Total mash volume **27.8 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **20.9 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **10.9 liter(s)** of **76C** water or to achieve **24.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5.3 kg (76.3%)	79 %	6
Grain	Strzegom Monachijski typ II	0.5 kg (7.2%)	79 %	22
Grain	Strzegom Pszeniczny	0.4 kg (5.8%)	81 %	6
Grain	Weyermann - Carafa I	0.5 kg (7.2%)	70 %	690
Grain	Weyermann - Carared	0.25 kg (3.6%)	75 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	20 g	70 min	15.5 %
Boil	Pekko	25 g	70 min	13.6 %
Boil	Mosaic	20 g	30 min	10 %
Boil	Pekko	25 g	30 min	13.6 %
Dry Hop	Cascade	50 g	5 day(s)	6 %
Dry Hop	Centennial	50 g	5 day(s)	10.5 %
Dry Hop	Citra	50 g	5 day(s)	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis