

Warka #4 Karpackie

- Gravity **18.4 BLG**
- ABV ---
- IBU **88**
- SRM **46.9**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pale Ale	5 kg (71.4%)	80 %	6
Grain	Karmelowy Czerwony	2 kg (28.6%)	75 %	300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	taurus	50 g	60 min	15.8 %
Boil	Sybilla	100 g	5 min	6 %
Dry Hop	cascade USA	50 g	14 day(s)	7.7 %

Yeasts

Name	Type	Form	Amount	Laboratory
us-05	Ale	Slant	300 ml	---