

Raszowska IPA

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **51**
- SRM **8.2**
- Style **Red 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 **15.9 liter(s)**
- Total mash volume **21.2 liter(s)**

Steps

- Temp **52 C**, Time **15 min**
- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **15 min**

Mash step by step

- Heat up **15.9 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **15 min** at **52C**
- Keep mash **45 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **15 min** at **78C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (75.5%)	79 %	6
Grain	Karmelowy Czerwony	1 kg (18.9%)	75 %	59
Grain	Płatki owsiane	0.3 kg (5.7%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	50 g	50 min	7.8 %
Boil	Marynka	50 g	10 min	6.2 %
Dry Hop	Citra	50 g	3 day(s)	13.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Slant	1000 ml	---