

## Warka 7

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- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **63**
- SRM **3.9**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.9 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **24.5 liter(s)**
- Total mash volume **31.5 liter(s)**

### Steps

- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **24.5 liter(s)** of strike water to **68C**
- Add grains
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.4 liter(s)** of **76C** water or to achieve **31.9 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (71.4%)	80 %	5
Grain	Pale cookie viking	1 kg (14.3%)	80 %	---
Grain	Viking Pilsner malt	1 kg (14.3%)	82 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	30 g	60 min	15.5 %
Boil	Warrior	20 g	20 min	15.5 %
Boil	Simcoe	25 g	10 min	13.2 %
Boil	Simcoe	25 g	2 min	13.2 %
Aroma (end of boil)	Ahtanum	50 g	1 min	5 %
Dry Hop	Crystal	50 g	7 day(s)	4.5 %
Dry Hop	Cascade	50 g	7 day(s)	6 %

### Yeasts

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