

# Irish Red Ale

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **23**
- SRM **14.1**
- Style **Irish Red Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **26.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **20.6 liter(s)**
- Total mash volume **25.7 liter(s)**

## Steps

- Temp **64 C**, Time **10 min**
- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **20.6 liter(s)** of strike water to **69.5C**
- Add grains
- Keep mash **10 min** at **64C**
- Keep mash **60 min** at **68C**
- Keep mash **1 min** at **78C**
- Sparge using **10.8 liter(s)** of **76C** water or to achieve **26.3 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (77.8%)	80 %	5
Grain	Karmelowy Jasny 30EBC	0.5 kg (9.7%)	75 %	30
Grain	Carared	0.5 kg (9.7%)	75 %	30
Grain	Carafa II	0.14 kg (2.7%)	70 %	1100

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	8 %
Boil	Marynka	20 g	10 min	8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Liquid	10 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
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Fining	Irish Moss	5 g	Boil	10 min
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## Notes

- burzliwa 18 oC 8 dni  
cicha 20 oC 7 dni  
*May 15, 2017, 1:38 AM*