

## FM52 Red IPA

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- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **35**
- SRM **17.2**
- Style **Red 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 **3.5 liter(s) / kg**
- Mash size **19.9 liter(s)**
- Total mash volume **25.6 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

### Mash step by step

- Heat up **19.9 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **72C**
- Sparge using **11.1 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (70.2%)	80 %	5
Grain	Strzegom Karmel 150	1 kg (17.5%)	75 %	150
Grain	Rye, Flaked	0.5 kg (8.8%)	78.3 %	4
Grain	Caraaroma	0.2 kg (3.5%)	78 %	400

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	15 g	60 min	13.2 %
Aroma (end of boil)	Simcoe	15 g	15 min	13.2 %
Aroma (end of boil)	Simcoe	15 g	5 min	13.2 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Slant	500 ml	Fermentum Mobile