

Pils czeski (Marxam)

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **45**
- SRM **4.1**

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 **14.1 liter(s)**
- Total mash volume **18.8 liter(s)**

Steps

- Temp **66 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **14.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **15.9 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Viking Pilsner malt | 4 kg (85.1%) | 82 % | 4 |
| Grain | Monachijski | 0.5 kg (10.6%) | 80 % | 16 |
| Grain | Carabody | 0.2 kg (4.3%) | 10 % | 8 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-----------------------|--------|--------|------------|
| Boil | Premiant | 40 g | 60 min | 8 % |
| Boil | Premiant | 25 g | 10 min | 8 % |
| Aroma (end of boil) | Premiant | 35 g | 0 min | 8 % |
| Aroma (end of boil) | Saaz (Czech Republic) | 25 g | 0 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------------|-------|--------|--------|------------------|
| FM30 Bohemska rapsodia | Lager | Liquid | 100 ml | Fermentum Mobile |

Notes

- 36 godzin wcześniej z fiolki FM30 zrobiony starter 1 litr i 100g suszonego jasnego ekstraktu słodowego WES.
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Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.