

Kamusznik - Hoppy Grodziskie

- Gravity **7.6 BLG**
- ABV **2.9 %**
- IBU **32**
- SRM **3.3**
- Style **Grodziskie/Graetzer**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **75 min**
- Evaporation rate **15 %/h**
- Boil size **20.5 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **7.5 liter(s)**
- Total mash volume **10 liter(s)**

Steps

- Temp **38 C**, Time **40 min**
- Temp **51 C**, Time **20 min**
- Temp **55 C**, Time **10 min**
- Temp **66 C**, Time **30 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up **7.5 liter(s)** of strike water to **41C**
- Add grains
- Keep mash **40 min** at **38C**
- Keep mash **20 min** at **51C**
- Keep mash **10 min** at **55C**
- Keep mash **30 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **2 min** at **78C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **20.5 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------|--------------|-------|-----|
| Grain | Weyermann - Smoked Malt | 2 kg (80%) | 81 % | 6 |
| Grain | Pszeniczny | 0.5 kg (20%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|----------|------------|
| Boil | Mosaic | 8 g | 60 min | 12.6 % |
| Boil | Willamette | 20 g | 20 min | 4.6 % |
| Boil | Mosaic | 2 g | 20 min | 12.6 % |
| Boil | Willamette | 10 g | 5 min | 4.6 % |
| Dry Hop | Mosaic | 20 g | 8 day(s) | 12.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-----|--------|-----------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |
|--------------|-----|-----|--------|-----------|

Notes

- Gotowane 60 minut. Przez cały czas garnek wspomagany grzałką 2000W. Na 15 minut tabletki whirlfloc. Drożdże uwodnione w 34 stopniach około 30 minut.
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