

HERBAL APA - " W kotle czarownic " # 68

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **38**
- SRM **3.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **23.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **25 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **20 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **1 min** at **78C**
- Sparge using **8.8 liter(s)** of **76C** water or to achieve **23.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------|------------|-------|-----|
| Grain | Pilzneński | 4 kg (80%) | 81 % | 4 |
| Grain | Płatki owsiane | 1 kg (20%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil | flex | 3 g | 180 min | 63.7 % |
| Aroma (end of boil) | Amarillo | 40 g | 3 min | 9.5 % |
| Aroma (end of boil) | Galaxy | 40 g | 3 min | 15 % |
| Dry Hop | Amarillo | 40 g | 5 day(s) | 9.5 % |
| Dry Hop | Galaxy | 40 g | 5 day(s) | 15 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|----------------|
| Safale US-05 | Ale | Slant | 400 ml | 3cie pokolenie |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------------|--------|-----------|----------|
| Herb | herbata Earl Gray | 80 g | Secondary | 2 day(s) |
| Water Agent | drozdze | 40 g | Boil | 15 min |

Notes

- razem chmielu ma byc 160g.
drozdze piekarnicze swieze dodam do gotowania na 15 min jako pozywka. receptura wg zwycieskiej APA z herbatą Michała Wiśniewskiego Warminski kpd 2019.- zmieniam całkowicie chmielenie. tylko ilosc zastosuje podobna. Docelowo 48 IBU.
mama Amarillo 100g
Galaxy 200g
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