

saison

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **28**
- SRM **9.8**
- Style **Saison**

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 **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **14.1 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- 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 | Pilzneński | 2.7 kg (57.4%) | 81 % | 4 |
| Grain | Strzegom Wiedeński | 0.8 kg (17%) | 79 % | 10 |
| Grain | Pszeniczny | 0.7 kg (14.9%) | 85 % | 4 |
| Grain | Carahell | 0.2 kg (4.3%) | 77 % | 26 |
| Grain | Caraaroma | 0.2 kg (4.3%) | 78 % | 400 |
| Grain | zakwaszający | 0.1 kg (2.1%) | 70 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | Marynka | 23 g | 45 min | 7.4 % |
| Boil | Saaz (Czech Republic) | 20 g | 20 min | 3.5 % |
| Boil | Saaz (Czech Republic) | 10 g | 5 min | 3.5 % |
| Boil | junga | 4 g | 45 min | 12.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------------|------|------|--------|------------|
| safale be-134 | Ale | Dry | 11 g | fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------|---------|--------|---------|--------|
| Other | glukoza | 300 g | Boil | 0 min |
| Spice | curaco | 20 g | Boil | 15 min |