

Smoked

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **62**
- SRM **34.2**
- Style **Other Smoked Beer**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.45 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **29.4 liter(s)**

Steps

- Temp **65 C**, Time **40 min**
- Temp **67 C**, Time **30 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **22.8 liter(s)** of strike water to **71.5C**
- Add grains
- Keep mash **40 min** at **65C**
- Keep mash **30 min** at **67C**
- Keep mash **5 min** at **75C**
- Sparge using **14.2 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|----------------------------------|---------------|-------|------|
| Grain | Pale Ale | 3 kg (41.7%) | 80 % | 4 |
| Grain | Viking Malt Wędzony Czereśnią | 2 kg (27.8%) | 80 % | 10 |
| Grain | Pszeniczny | 1 kg (13.9%) | 85 % | 4 |
| Grain | Special B Castle | 0.3 kg (4.2%) | 75 % | 350 |
| Grain | Strzegom Karmel 600 | 0.3 kg (4.2%) | 68 % | 600 |
| Adjunct | Prażona pszenica IREKS | 0.3 kg (4.2%) | 1 % | 1600 |
| Adjunct | Łuska ryżowa | 0.1 kg (1.4%) | 1 % | --- |
| Sugar | Biały cukier | 0.2 kg (2.8%) | 99 % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil | Waimea | 20 g | 50 min | 17.3 % |
| Boil | Galena | 30 g | 50 min | 12.8 % |
| Aroma (end of boil) | Motueka | 30 g | 5 min | 6.7 % |

Yeasts

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

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

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|---------------|----------------|-------------|
| Spice | Cynamon 2 kory | 5 g | Boil | 15 min |