

Polish ipa

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **37**
- SRM **4.4**

Batch size

- Expected quantity of finished beer **38 liter(s)**
- Trub loss **5 %**
- Size with trub loss **41.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **7 %/h**
- Boil size **47.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **30.6 liter(s)**
- Total mash volume **40.8 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------|--------------|-------|-----|
| Grain | Viking Pale Ale malt | 9 kg (88.2%) | 80 % | 5 |
| Grain | Płatki owsiane | 1 kg (9.8%) | 60 % | 3 |
| Grain | Karmelowy Jasny 30EBC | 0.2 kg (2%) | 75 % | 30 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|--------|------------|
| Boil | Marynka | 50 g | 60 min | 10 % |
| Aroma (end of boil) | Lublin (Lubelski) | 100 g | 5 min | 4 % |
| Whirlpool | Lublin (Lubelski) | 100 g | 10 min | 4 % |