

# POLISH HOPS IPA

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **40**
- SRM **4.4**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **2.31 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **21.5 liter(s)**

## Steps

- Temp **66 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **77 C**, Time **5 min**

## Mash step by step

- Heat up **15 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **40 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **20.5 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Pilzneński           | 1 kg (15.4%)  | 81 %  | 4   |
| Grain | Viking Pale Ale malt | 5 kg (76.9%)  | 80 %  | 5   |
| Grain | Płatki owsiane       | 0.5 kg (7.7%) | 60 %  | 3   |

## Hops

| Use for             | Name        | Amount | Time     | Alpha acid |
|---------------------|-------------|--------|----------|------------|
| Boil                | Lunga       | 25 g   | 60 min   | 8.5 %      |
| Boil                | Cascade PL  | 25 g   | 60 min   | 5.2 %      |
| Aroma (end of boil) | Amora Preta | 20 g   | 15 min   | 9 %        |
| Aroma (end of boil) | Cascade PL  | 10 g   | 15 min   | 5.2 %      |
| Dry Hop             | Amora Preta | 30 g   | 7 day(s) | 9 %        |
| Dry Hop             | Cascade PL  | 15 g   | 7 day(s) | 5.2 %      |

## Yeasts

| Name                 | Type | Form  | Amount | Laboratory       |
|----------------------|------|-------|--------|------------------|
| FM52 Amerykański Sen | Ale  | Slant | 500 ml | Fermentum Mobile |

## Notes

- KLEIKOWANIE  
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