

nowa IPA

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **49**
- SRM **13.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **31.4 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **27.4 liter(s)**
- Total mash volume **35.7 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **27.4 liter(s)** of strike water to **75.3C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **12.3 liter(s)** of **76C** water or to achieve **31.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 7 kg (84.3%) | 80 % | 5 |
| Grain | Karmelowy Jasny 300EBC | 0.3 kg (3.6%) | 75 % | 300 |
| Grain | Caraaroma | 0.2 kg (2.4%) | 78 % | 400 |
| Grain | Jęczmień niesłodowany | 0.4 kg (4.8%) | 75 % | 2 |
| Grain | Viking Melanoidynowy | 0.4 kg (4.8%) | 75 % | 60 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|---------|--------|----------|------------|
| Boil | Chinook | 20 g | 60 min | 13 % |
| Boil | Chinook | 15 g | 20 min | 13 % |
| Boil | Citra | 20 g | 15 min | 12 % |
| Boil | Galaxy | 20 g | 10 min | 15 % |
| Whirlpool | Citra | 30 g | 0 min | 12 % |
| Whirlpool | Galaxy | 30 g | 0 min | 15 % |
| Dry Hop | Citra | 100 g | 5 day(s) | 12 % |

| | | | | |
|---------|--------|------|----------|------|
| Dry Hop | Galaxy | 50 g | 5 day(s) | 15 % |
|---------|--------|------|----------|------|

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|--------|------------------|
| FM52 Amerykański Sen | Ale | Liquid | 200 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------|--------|---------|--------|
| Fining | Mech irlandzki | 10 g | Boil | 10 min |