

Cascade mosaic Amarillo

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **31**
- SRM **3.8**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **67 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **19.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|--------------|-------|-----|
| Grain | Viking Pale Ale malt | 4 kg (66.7%) | 80 % | 5 |
| Grain | Pszeniczny | 1 kg (16.7%) | 85 % | 4 |
| Grain | Płatki owsiane | 1 kg (16.7%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|--------|------------|
| Boil | Cascade | 10 g | 60 min | 6 % |
| Boil | Cascade | 15 g | 15 min | 6 % |
| Boil | Amarillo | 10 g | 15 min | 9.5 % |
| Aroma (end of boil) | Mosaic | 20 g | 0 min | 10 % |
| Aroma (end of boil) | Cascade | 25 g | 0 min | 6 % |
| Whirlpool | Simcoe | 25 g | 10 min | 13.2 % |
| Whirlpool | Amarillo | 20 g | 10 min | 9.5 % |
| Whirlpool | Oktawia | 10 g | 10 min | 7.1 % |
| Boil | Zula | 10 g | 60 min | 8.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-----|--------|-----------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |
|--------------|-----|-----|--------|-----------|