

# PAPA American Pale Ale

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **39**
- SRM **4.4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **12.6 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **9.8 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **7 liter(s)** of **76C** water or to achieve **14 liter(s)** of wort

## Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński | 1.7 kg (60.7%) | 80 %  | 4   |
| Grain | Strzegom Pale Ale   | 1 kg (35.7%)   | 79 %  | 6   |
| Grain | Carahell            | 0.1 kg (3.6%)  | 77 %  | 26  |

## Hops

| Use for           | Name       | Amount | Time     | Alpha acid |
|-------------------|------------|--------|----------|------------|
| Boil              | Equinox    | 7.5 g  | 20 min   | 13.1 %     |
| Boil              | Centennial | 10 g   | 20 min   | 9.4 %      |
| Boil              | Equinox    | 10 g   | 10 min   | 13.1 %     |
| Boil              | Centennial | 10 g   | 10 min   | 9.4 %      |
| Whirlpool         | Equinox    | 12.5 g | 0 min    | 13.1 %     |
| Whirlpool         | Centennial | 10 g   | 0 min    | 9.4 %      |
| Dry Hop           | Centennial | 20 g   | 5 day(s) | 10.5 %     |
| 2 dzień burzliwej |            |        |          |            |
| Dry Hop           | Equinox    | 20 g   | 4 day(s) | 13.1 %     |

## Yeasts

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

|              |     |       |        |     |
|--------------|-----|-------|--------|-----|
| Safale US-05 | Ale | Slant | 100 ml | --- |
|--------------|-----|-------|--------|-----|