

# Apa

- Gravity **11.2 BLG**
- ABV ---
- IBU **45**
- SRM **4.7**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

## Fermentables

| Type  | Name                       | Amount         | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Pale Ale                   | 2 kg (50%)     | 80 %  | 6   |
| Grain | Pilzneński                 | 1 kg (25%)     | 81 %  | 4   |
| Grain | Pszeniczny jasny niemiecki | 0.5 kg (12.5%) | 82 %  | 5   |
| Grain | Karmelowy Pale Cara        | 0.5 kg (12.5%) | 75 %  | 9   |

## Hops

| Use for             | Name    | Amount | Time     | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil                | Equinox | 25 g   | 45 min   | 13.1 %     |
| Aroma (end of boil) | Pekko   | 20 g   | 6 min    | 13.6 %     |
| Aroma (end of boil) | Ahtanum | 20 g   | 4 min    | 3.4 %      |
| Mash                | Kohatu  | 20 g   | 2 min    | 6.6 %      |
| Dry Hop             | Kohatu  | 30 g   | 7 day(s) | 6.6 %      |
| Dry Hop             | Ahtanum | 30 g   | 7 day(s) | 3.4 %      |
| Dry Hop             | Equinox | 25 g   | 5 day(s) | 13.1 %     |
| Dry Hop             | Pekko   | 30 g   | 7 day(s) | 13.6 %     |

## Yeasts

| Name    | Type | Form | Amount | Laboratory |
|---------|------|------|--------|------------|
| US - 05 | Ale  | Dry  | 5 g    | ---        |

## Extras

| Type | Name     | Amount | Use for | Time  |
|------|----------|--------|---------|-------|
| Herb | Hibiskus | 50 g   | Boil    | 5 min |