

# Autumn APA

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- Gravity **12.6 BLG**
- ABV ---
- IBU **46**
- SRM **7.8**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **33.7 liter(s)**

## Mash information

- Mash efficiency **76 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

## Steps

- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **21 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **10 min** at **76C**
- Sparge using **18.7 liter(s)** of **76C** water or to achieve **33.7 liter(s)** of wort

## Fermentables

| Type  | Name            | Amount       | Yield | EBC |
|-------|-----------------|--------------|-------|-----|
| Grain | Pale Ale        | 5 kg (83.3%) | 80 %  | 6   |
| Grain | Karmelowy jasny | 1 kg (16.7%) | 75 %  | 30  |

## Hops

| Use for             | Name     | Amount | Time     | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Boil                | Columbus | 20 g   | 60 min   | 15 %       |
| Boil                | lunga    | 10 g   | 60 min   | 11 %       |
| Boil                | Columbus | 10 g   | 20 min   | 15 %       |
| Aroma (end of boil) | Ahtanum  | 25 g   | 0 min    | 5 %        |
| Dry Hop             | Simcoe   | 50 g   | 4 day(s) | 10 %       |
| Dry Hop             | Equinox  | 50 g   | 4 day(s) | 13.1 %     |

## Yeasts

| Name  | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| US-05 | Ale  | Dry  | 11 g   | Fermentis  |

## Extras

| Type        | Name            | Amount | Use for | Time |
|-------------|-----------------|--------|---------|------|
| Water Agent | Gips piwowarski | 5 g    | Mash    | ---  |

|             |                |     |      |     |
|-------------|----------------|-----|------|-----|
| Water Agent | Chlorek wapnia | 5 g | Mash | --- |
|-------------|----------------|-----|------|-----|