

# Dragon & Cascade APA

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **23**
- SRM **5.4**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.8 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

## Mash information

- Mash efficiency **68 %**
- Liquor-to-grist ratio **4.6 liter(s) / kg**
- Mash size **22.1 liter(s)**
- Total mash volume **26.9 liter(s)**

## Steps

- Temp **68 C**, Time **90 min**

## Mash step by step

- Heat up **22.1 liter(s)** of strike water to **73.2C**
- Add grains
- Keep mash **90 min** at **68C**
- Sparge using **6.8 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

## Fermentables

| Type  | Name                   | Amount         | Yield | EBC |
|-------|------------------------|----------------|-------|-----|
| Grain | Briess - Pale Ale Malt | 4 kg (83.3%)   | 80 %  | 7   |
| Grain | Monachijski            | 0.6 kg (12.5%) | 80 %  | 16  |
| Grain | Weyermann - Carapils   | 0.2 kg (4.2%)  | 78 %  | 4   |

## Hops

| Use for             | Name           | Amount | Time     | Alpha acid |
|---------------------|----------------|--------|----------|------------|
| Boil                | Styrian Dragon | 20 g   | 60 min   | 7.2 %      |
| Aroma (end of boil) | Styrian Dragon | 20 g   | 5 min    | 7.2 %      |
| Aroma (end of boil) | Cascade PL     | 20 g   | 5 min    | 5.2 %      |
| Dry Hop             | Styrian Dragon | 60 g   | 5 day(s) | 7.2 %      |
| Dry Hop             | Cascade PL     | 80 g   | 5 day(s) | 5.2 %      |

## Yeasts

| Name  | Type | Form  | Amount | Laboratory       |
|-------|------|-------|--------|------------------|
| US 05 | Ale  | Slant | 300 ml | Fermentum Mobile |

## Extras

| Type   | Name     | Amount | Use for | Time  |
|--------|----------|--------|---------|-------|
| Fining | Whirfloc | 1 g    | Boil    | 5 min |

|             |      |     |      |        |
|-------------|------|-----|------|--------|
| Water Agent | NACL | 7 g | Boil | 60 min |
|-------------|------|-----|------|--------|