

## APA 17/18

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- Gravity **15.2 BLG**
- ABV **6.3 %**
- IBU **79**
- SRM **4.6**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **48 liter(s)**
- Trub loss **5 %**
- Size with trub loss **55.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **8 %/h**
- Boil size **68.9 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **60 liter(s)**
- Total mash volume **75 liter(s)**

### Steps

- Temp **70 C**, Time **60 min**

### Mash step by step

- Heat up **60 liter(s)** of strike water to **76.3C**
- Add grains
- Keep mash **60 min** at **70C**
- Sparge using **23.9 liter(s)** of **76C** water or to achieve **68.9 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	12 kg (80%)	80 %	5
Grain	Vienna Malt	3 kg (20%)	78 %	8

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	100 g	60 min	16.5 %
Boil	Columbus/Tomahawk/Zeus	100 g	10 min	15.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Farmgarden	Ale	Slant	50 ml	Lallemand